# Table of Contents

Welcome ............................................................................................................................... 1

Actions .................................................................................................................................... 2

- ActivateGateway .................................................................................................................. 4
  - Request Syntax ................................................................................................................... 4
  - Request Parameters .......................................................................................................... 4
  - Response Syntax .............................................................................................................. 6
  - Response Elements .......................................................................................................... 6
  - Errors .................................................................................................................................. 6
  - Example ............................................................................................................................ 6
  - See Also ............................................................................................................................ 7

- AddCache ............................................................................................................................ 8
  - Request Syntax ................................................................................................................... 8
  - Request Parameters .......................................................................................................... 8
  - Response Syntax .............................................................................................................. 8
  - Response Elements .......................................................................................................... 8
  - Errors .................................................................................................................................. 9
  - Example ............................................................................................................................ 9
  - See Also ............................................................................................................................ 10

- AddTagsToResource .......................................................................................................... 11
  - Request Syntax ................................................................................................................... 11
  - Request Parameters .......................................................................................................... 11
  - Response Syntax .............................................................................................................. 12
  - Response Elements .......................................................................................................... 12
  - Errors .................................................................................................................................. 12
  - See Also ............................................................................................................................ 12

- AddUploadBuffer ............................................................................................................. 14
  - Request Syntax ................................................................................................................... 14
  - Request Parameters .......................................................................................................... 14
  - Response Syntax .............................................................................................................. 14
  - Response Elements .......................................................................................................... 14
  - Errors .................................................................................................................................. 15
  - See Also ............................................................................................................................ 15

- AddWorkingStorage ......................................................................................................... 16
  - Request Syntax ................................................................................................................... 16
  - Request Parameters .......................................................................................................... 16
  - Response Syntax .............................................................................................................. 16
  - Response Elements .......................................................................................................... 17
  - Errors .................................................................................................................................. 17
  - Example ............................................................................................................................ 17
  - See Also ............................................................................................................................ 18

- CancelArchival .................................................................................................................. 19
  - Request Syntax ................................................................................................................... 19
  - Request Parameters .......................................................................................................... 19
  - Response Syntax .............................................................................................................. 19
  - Response Elements .......................................................................................................... 19
  - Errors .................................................................................................................................. 20
  - See Also ............................................................................................................................ 20

- CancelRetrieval ................................................................................................................. 21
  - Request Syntax ................................................................................................................... 21
  - Request Parameters .......................................................................................................... 21
  - Response Syntax .............................................................................................................. 21
  - Response Elements .......................................................................................................... 21
  - Errors .................................................................................................................................. 22
  - See Also ............................................................................................................................ 22

See Also ............................................................................................................................... 22

Errors ...................................................................................................................................... 22

Response Elements .............................................................................................................. 21

Response Syntax .............................................................................................................. 21

Request Syntax ................................................................................................................ 21

Request Parameters ............................................................................................................ 19

Example .............................................................................................................................. 17

See Also .............................................................................................................................. 18

Errors ...................................................................................................................................... 6

Response Elements ............................................................................................................. 8

Response Syntax ................................................................................................................ 8

Request Syntax .................................................................................................................. 8

See Also .............................................................................................................................. 7

Errors ...................................................................................................................................... 6

Response Elements ............................................................................................................. 6

Response Syntax ................................................................................................................ 6

Request Syntax .................................................................................................................. 6

See Also .............................................................................................................................. 5

Example .............................................................................................................................. 9

Errors ...................................................................................................................................... 9

Response Elements ............................................................................................................. 9

Response Syntax ................................................................................................................ 9

Request Syntax .................................................................................................................. 9

See Also .............................................................................................................................. 8

Errors ...................................................................................................................................... 8

Response Elements ............................................................................................................. 8

Response Syntax ................................................................................................................ 8

Request Syntax .................................................................................................................. 8

See Also .............................................................................................................................. 7

Example .............................................................................................................................. 8

Errors ...................................................................................................................................... 8

Response Elements ............................................................................................................. 8

Response Syntax ................................................................................................................ 8

Request Syntax .................................................................................................................. 8

See Also .............................................................................................................................. 6

Example .............................................................................................................................. 7

Errors ...................................................................................................................................... 7

Response Elements ............................................................................................................. 7

Response Syntax ................................................................................................................ 7

Request Syntax .................................................................................................................. 7

See Also .............................................................................................................................. 5

Example .............................................................................................................................. 6

Errors ...................................................................................................................................... 6

Response Elements ............................................................................................................. 6

Response Syntax ................................................................................................................ 6

Request Syntax .................................................................................................................. 6

See Also .............................................................................................................................. 4

Example .............................................................................................................................. 5

Errors ...................................................................................................................................... 5

Response Elements ............................................................................................................. 5

Response Syntax ................................................................................................................ 5

Request Syntax .................................................................................................................. 5

See Also .............................................................................................................................. 3

Example .............................................................................................................................. 4

Errors ...................................................................................................................................... 4

Response Elements ............................................................................................................. 4

Response Syntax ................................................................................................................ 4

Request Syntax .................................................................................................................. 4

See Also .............................................................................................................................. 2

Example .............................................................................................................................. 3

Errors ...................................................................................................................................... 3

Response Elements ............................................................................................................. 3

Response Syntax ................................................................................................................ 3

Request Syntax .................................................................................................................. 3

See Also .............................................................................................................................. 1

Example .............................................................................................................................. 2

Errors ...................................................................................................................................... 2

Response Elements ............................................................................................................. 2

Response Syntax ................................................................................................................ 2

Request Syntax .................................................................................................................. 2
CreateCachediSCSIVolume ................................................................. 23
  Request Syntax ................................................................. 23
  Request Parameters ......................................................... 23
  Response Syntax ............................................................. 25
  Response Elements .......................................................... 25
  Errors ................................................................................ 25
  Example ............................................................................. 26
  See Also ............................................................................. 26
CreateNFSFileShare ................................................................. 28
  Request Syntax ................................................................. 28
  Request Parameters ......................................................... 28
  Response Syntax ............................................................. 31
  Response Elements .......................................................... 31
  Errors ................................................................................ 31
  Example ............................................................................. 31
  See Also ............................................................................. 32
CreateSMBFileShare ................................................................. 33
  Request Syntax ................................................................. 33
  Request Parameters ......................................................... 33
  Response Syntax ............................................................. 36
  Response Elements .......................................................... 36
  Errors ................................................................................ 36
  Example ............................................................................. 36
  See Also ............................................................................. 37
CreateSnapshot ................................................................. 38
  Request Syntax ................................................................. 38
  Request Parameters ......................................................... 38
  Response Syntax ............................................................. 39
  Response Elements .......................................................... 39
  Errors ................................................................................ 39
  Example ............................................................................. 40
  See Also ............................................................................. 40
CreateSnapshotFromVolumeRecoveryPoint .................................. 41
  Request Syntax ................................................................. 41
  Request Parameters ......................................................... 41
  Response Syntax ............................................................. 41
  Response Elements .......................................................... 42
  Errors ................................................................................ 42
  Example ............................................................................. 42
  See Also ............................................................................. 43
CreateStorediSCSIVolume .......................................................... 44
  Request Syntax ................................................................. 44
  Request Parameters ......................................................... 44
  Response Syntax ............................................................. 45
  Response Elements .......................................................... 45
  Errors ................................................................................ 46
  Example ............................................................................. 46
  See Also ............................................................................. 47
CreateTapes ............................................................................. 48
  Request Syntax ................................................................. 48
  Request Parameters ......................................................... 48
  Response Syntax ............................................................. 49
  Response Elements .......................................................... 49
  Errors ................................................................................ 49
  Example ............................................................................. 50
  See Also ............................................................................. 51
CreateTapeWithBarcode ................................................................ 52
AWS Storage Gateway Service API Reference

Errors .................................................................................................................................................. 163
See Also ........................................................................................................................................... 163
RefreshCache .................................................................................................................................... 164
Request Syntax ................................................................................................................................. 164
Request Parameters ........................................................................................................................ 164
Response Syntax ............................................................................................................................. 164
Response Elements ......................................................................................................................... 164
Errors ................................................................................................................................................ 164
See Also ........................................................................................................................................... 165
RemoveTagsFromResource .................................................................................................................. 166
Request Syntax ................................................................................................................................. 166
Request Parameters ........................................................................................................................ 166
Response Syntax ............................................................................................................................. 166
Response Elements ......................................................................................................................... 166
Errors ................................................................................................................................................ 167
See Also ........................................................................................................................................... 167
ResetCache ....................................................................................................................................... 168
Request Syntax ................................................................................................................................. 168
Request Parameters ........................................................................................................................ 168
Response Syntax ............................................................................................................................. 168
Response Elements ......................................................................................................................... 168
Errors ................................................................................................................................................ 169
See Also ........................................................................................................................................... 169
RetrieveTapeArchive .......................................................................................................................... 170
Request Syntax ................................................................................................................................. 170
Request Parameters ........................................................................................................................ 170
Response Syntax ............................................................................................................................. 170
Response Elements ......................................................................................................................... 171
Example .......................................................................................................................................... 171
See Also ........................................................................................................................................... 172
RetrieveTapeRecoveryPoint .................................................................................................................. 173
Request Syntax ................................................................................................................................. 173
Request Parameters ........................................................................................................................ 173
Response Syntax ............................................................................................................................. 173
Response Elements ......................................................................................................................... 174
Errors ................................................................................................................................................ 174
See Also ........................................................................................................................................... 174
SetLocalConsolePassword .................................................................................................................... 175
Request Syntax ................................................................................................................................. 175
Request Parameters ........................................................................................................................ 175
Response Syntax ............................................................................................................................. 175
Response Elements ......................................................................................................................... 175
Errors ................................................................................................................................................ 176
See Also ........................................................................................................................................... 176
SetSMBGuestPassword ......................................................................................................................... 177
Request Syntax ................................................................................................................................. 177
Request Parameters ........................................................................................................................ 177
Response Syntax ............................................................................................................................. 177
Response Elements ......................................................................................................................... 177
Errors ................................................................................................................................................ 178
See Also ........................................................................................................................................... 178
ShutdownGateway ............................................................................................................................... 179
Request Syntax ................................................................................................................................. 179
Request Parameters ........................................................................................................................ 179
Response Syntax ............................................................................................................................. 179
Response Elements ......................................................................................................................... 180

API Version 2013-06-30
<table>
<thead>
<tr>
<th>Contents</th>
<th>237</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Also</td>
<td>237</td>
</tr>
<tr>
<td>StoredISCSIVolume</td>
<td>238</td>
</tr>
<tr>
<td>Contents</td>
<td>238</td>
</tr>
<tr>
<td>See Also</td>
<td>239</td>
</tr>
<tr>
<td>Tag</td>
<td>241</td>
</tr>
<tr>
<td>Contents</td>
<td>241</td>
</tr>
<tr>
<td>See Also</td>
<td>241</td>
</tr>
<tr>
<td>Tape</td>
<td>242</td>
</tr>
<tr>
<td>Contents</td>
<td>242</td>
</tr>
<tr>
<td>See Also</td>
<td>243</td>
</tr>
<tr>
<td>TapeArchive</td>
<td>244</td>
</tr>
<tr>
<td>Contents</td>
<td>244</td>
</tr>
<tr>
<td>See Also</td>
<td>245</td>
</tr>
<tr>
<td>TapeInfo</td>
<td>246</td>
</tr>
<tr>
<td>Contents</td>
<td>246</td>
</tr>
<tr>
<td>See Also</td>
<td>246</td>
</tr>
<tr>
<td>TapeRecoveryPointInfo</td>
<td>248</td>
</tr>
<tr>
<td>Contents</td>
<td>248</td>
</tr>
<tr>
<td>See Also</td>
<td>248</td>
</tr>
<tr>
<td>VolumeInfo</td>
<td>249</td>
</tr>
<tr>
<td>Contents</td>
<td>249</td>
</tr>
<tr>
<td>See Also</td>
<td>250</td>
</tr>
<tr>
<td>VolumeSCSIAttributes</td>
<td>251</td>
</tr>
<tr>
<td>Contents</td>
<td>251</td>
</tr>
<tr>
<td>See Also</td>
<td>251</td>
</tr>
<tr>
<td>VolumeRecoveryPointInfo</td>
<td>253</td>
</tr>
<tr>
<td>Contents</td>
<td>253</td>
</tr>
<tr>
<td>See Also</td>
<td>253</td>
</tr>
<tr>
<td>VTLDevice</td>
<td>254</td>
</tr>
<tr>
<td>Contents</td>
<td>254</td>
</tr>
<tr>
<td>See Also</td>
<td>254</td>
</tr>
<tr>
<td>Common Parameters</td>
<td>255</td>
</tr>
<tr>
<td>Common Errors</td>
<td>257</td>
</tr>
</tbody>
</table>
Welcome

AWS Storage Gateway is the service that connects an on-premises software appliance with cloud-based storage to provide seamless and secure integration between an organization's on-premises IT environment and AWS's storage infrastructure. The service enables you to securely upload data to the AWS cloud for cost effective backup and rapid disaster recovery.

Use the following links to get started using the AWS Storage Gateway Service API Reference:

- AWS Storage Gateway Required Request Headers: Describes the required headers that you must send with every POST request to AWS Storage Gateway.
- Signing Requests: AWS Storage Gateway requires that you authenticate every request you send; this topic describes how sign such a request.
- Error Responses: Provides reference information about AWS Storage Gateway errors.
- Operations in AWS Storage Gateway: Contains detailed descriptions of all AWS Storage Gateway operations, their request parameters, response elements, possible errors, and examples of requests and responses.
- AWS Storage Gateway Regions and Endpoints: Provides a list of each AWS region and endpoints available for use with AWS Storage Gateway.

**Note**
AWS Storage Gateway resource IDs are in uppercase. When you use these resource IDs with the Amazon EC2 API, EC2 expects resource IDs in lowercase. You must change your resource ID to lowercase to use it with the EC2 API. For example, in Storage Gateway the ID for a volume might be vol-AA22BB012345DAF670. When you use this ID with the EC2 API, you must change it to vol-aa22bb012345daf670. Otherwise, the EC2 API might not behave as expected.

**Important**
IDs for Storage Gateway volumes and Amazon EBS snapshots created from gateway volumes are changing to a longer format. Starting in December 2016, all new volumes and snapshots will be created with a 17-character string. Starting in April 2016, you will be able to use these longer IDs so you can test your systems with the new format. For more information, see Longer EC2 and EBS Resource IDs.

For example, a volume Amazon Resource Name (ARN) with the longer volume ID format looks like the following:

```
```

A snapshot ID with the longer ID format looks like the following: `snap-78e22663445566ee`.

For more information, see Announcement: Heads-up – Longer AWS Storage Gateway volume and snapshot IDs coming in 2016.

This document was last published on June 22, 2018.
Actions

The following actions are supported:

- ActivateGateway (p. 4)
- AddCache (p. 8)
- AddTagsToResource (p. 11)
- AddUploadBuffer (p. 14)
- AddWorkingStorage (p. 16)
- CancelArchival (p. 19)
- CancelRetrieval (p. 21)
- CreateCachediSCSIVolume (p. 23)
- CreateNFSFileShare (p. 28)
- CreateSMBFileShare (p. 33)
- CreateSnapshot (p. 38)
- CreateSnapshotFromVolumeRecoveryPoint (p. 41)
- CreateStorediSCSIVolume (p. 44)
- CreateTapes (p. 48)
- CreateTapeWithBarcode (p. 52)
- DeleteBandwidthRateLimit (p. 55)
- DeleteChapCredentials (p. 58)
- DeleteFileShare (p. 61)
- DeleteGateway (p. 64)
- DeleteSnapshotSchedule (p. 67)
- DeleteTape (p. 70)
- DeleteTapeArchive (p. 73)
- DeleteVolume (p. 75)
- DescribeBandwidthRateLimit (p. 78)
- DescribeCache (p. 81)
- DescribeCachediSCSIVolumes (p. 84)
- DescribeChapCredentials (p. 87)
- DescribeGatewayInformation (p. 90)
- DescribeMaintenanceStartTime (p. 94)
- DescribeNFSFileShares (p. 97)
- DescribeSMBFileShares (p. 100)
- DescribeSMBSettings (p. 103)
- DescribeSnapshotSchedule (p. 105)
- DescribeStorediSCSIVolumes (p. 108)
- DescribeTapeArchives (p. 111)
- DescribeTapeRecoveryPoints (p. 115)
- DescribeTapes (p. 118)
- DescribeUploadBuffer (p. 122)
- DescribeVTLDevices (p. 125)
- DescribeWorkingStorage (p. 129)
- DisableGateway (p. 132)
- JoinDomain (p. 134)
- ListFileShares (p. 137)
- ListGateways (p. 140)
- ListLocalDisks (p. 143)
- ListTagsForResource (p. 146)
- ListTapes (p. 149)
- ListVolumeInitiators (p. 153)
- ListVolumeRecoveryPoints (p. 155)
- ListVolumes (p. 158)
- NotifyWhenUploaded (p. 162)
- RefreshCache (p. 164)
- RemoveTagsFromResource (p. 166)
- ResetCache (p. 168)
- RetrieveTapeArchive (p. 170)
- RetrieveTapeRecoveryPoint (p. 173)
- SetLocalConsolePassword (p. 175)
- SetSMBGuestPassword (p. 177)
- ShutdownGateway (p. 179)
- StartGateway (p. 182)
- UpdateBandwidthRateLimit (p. 185)
- UpdateChapCredentials (p. 188)
- UpdateGatewayInformation (p. 192)
- UpdateGatewaySoftwareNow (p. 195)
- UpdateMaintenanceStartTime (p. 198)
- UpdateNFSFileShare (p. 201)
- UpdateSMBFileShare (p. 206)
- UpdateSnapshotSchedule (p. 210)
- UpdateVTLDeviceType (p. 213)
ActivateGateway

Activates the gateway you previously deployed on your host. In the activation process, you specify information such as the region you want to use for storing snapshots or tapes, the time zone for scheduled snapshots the gateway snapshot schedule window, an activation key, and a name for your gateway. The activation process also associates your gateway with your account; for more information, see UpdateGatewayInformation (p. 192).

**Note**
You must turn on the gateway VM before you can activate your gateway.

**Request Syntax**

```json
{
    "ActivationKey": "string",
    "GatewayName": "string",
    "GatewayRegion": "string",
    "GatewayTimezone": "string",
    "GatewayType": "string",
    "MediumChangerType": "string",
    "TapeDriveType": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**ActivationKey (p. 4)**

Your gateway activation key. You can obtain the activation key by sending an HTTP GET request with redirects enabled to the gateway IP address (port 80). The redirect URL returned in the response provides you the activation key for your gateway in the query string parameter `activationKey`.

It may also include other activation-related parameters, however, these are merely defaults -- the arguments you pass to the ActivateGateway API call determine the actual configuration of your gateway.

For more information, see Getting Activation Key in the Storage Gateway User Guide.

Type: String


Required: Yes

**GatewayName (p. 4)**

The name you configured for your gateway.

Type: String


Pattern: `^[ -\0-\[]-\]*[!-\0-\[]-\]*[\-\0-\[]-\]*$`

Required: Yes
GatewayRegion (p. 4)

A value that indicates the region where you want to store your data. The gateway region specified must be the same region as the region in your Host header in the request. For more information about available regions and endpoints for AWS Storage Gateway, see Regions and Endpoints in the Amazon Web Services Glossary.


Type: String


Required: Yes

GatewayTimezone (p. 4)

A value that indicates the time zone you want to set for the gateway. The time zone is of the format "GMT-hr:mm" or "GMT+hr:mm". For example, GMT-4:00 indicates the time is 4 hours behind GMT. GMT+2:00 indicates the time is 2 hours ahead of GMT. The time zone is used, for example, for scheduling snapshots and your gateway's maintenance schedule.

Type: String


Required: Yes

GatewayType (p. 4)

A value that defines the type of gateway to activate. The type specified is critical to all later functions of the gateway and cannot be changed after activation. The default value is STORED.

Valid Values: "STORED", "CACHED", "VTL", "FILE_S3"

Type: String


Required: No

MediumChangerType (p. 4)

The value that indicates the type of medium changer to use for tape gateway. This field is optional.

Valid Values: "STK-L700", "AWS-Gateway-VTL"

Type: String


Required: No

TapeDriveType (p. 4)

The value that indicates the type of tape drive to use for tape gateway. This field is optional.

Valid Values: "IBM-ULT3580-TD5"

Type: String

Response Syntax

{
   "GatewayARN": "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.

**GatewayARN (p. 6)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

**InternalServerError**

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

**InvalidGatewayRequestException**

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

Example

Example Request

The following example shows a request that activates a gateway.

**Sample Request**

```
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
x-amz-date: 20120425T120000Z
Authorization: CSOC7IPJFLO09K1RLO9HVA1C0V/document/1467774484/912359358
```
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.ActivateGateway
{
    "ActivationKey": "29AV1-3OFV9-VVIUB-NKT0I-LRO6V",
    "GatewayName": "mygateway",
    "GatewayTimezone": "GMT-12:00",
    "GatewayRegion": "us-east-2",
    "GatewayType": "STORED",
}

Sample Response

HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR000KIRLGOHVAICUFVY4KQNSO5AMEVJ66Q9ASUAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 80
{
}

See Also

For more information about using this API in one of the language-specific AWS 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
AddCache

Configures one or more gateway local disks as cache for a gateway. This operation is only supported in the cached volume, tape and file gateway type (see Storage Gateway Concepts).

In the request, you specify the gateway Amazon Resource Name (ARN) to which you want to add cache, and one or more disk IDs that you want to configure as cache.

**Request Syntax**

```json
{
   "DiskIds": [ "string" ],
   "GatewayARN": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**DiskIds (p. 8)**

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 300.

Required: Yes

**GatewayARN (p. 8)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

**Response Syntax**

```json
{
   "GatewayARN": "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.
GatewayARN (p. 8)

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String
Length Constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

InternalServerErrors

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

Example

Example Request

The following example shows a request that activates a stored volumes gateway.

Sample Request

```plaintext
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20120425/us-east-2/
storagegateway/aws4_request, SignedHeaders=content-type;host;x-amz-date;x-amz-target,
Signature=9cd5a3584d1d67d5?e61f120f35102d6b3649066abdd4bf4b8cf5bd9f2f8fe2
x-amz-date: 20120425T120000Z
x-amz-target: StorageGateway_20120630.AddCache

{   "GatewayARN": "arn:aws:storagegateway:us-east-2:111122223333:gateway/sgw-12A3456B"   "DiskIds": [   "pci-0000:03:00.0-sc5i-0:0:0:0",   "pci-0000:03:00.0-sc5i-0:0:1:0"   ] }
```

Sample Response
See Also

For more information about using this API in one of the language-specific AWS 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
AddTagsToResource

Adds one or more tags to the specified resource. You use tags to add metadata to resources, which you can use to categorize these resources. For example, you can categorize resources by purpose, owner, environment, or team. Each tag consists of a key and a value, which you define. You can add tags to the following AWS Storage Gateway resources:

- Storage gateways of all types
- Storage Volumes
- Virtual Tapes

You can create a maximum of 10 tags for each resource. Virtual tapes and storage volumes that are recovered to a new gateway maintain their tags.

Request Syntax

```json
{
    "ResourceARN": "string",
    "Tags": [
        {
            "Key": "string",
            "Value": "string"
        }
    ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**ResourceARN (p. 11)**

The Amazon Resource Name (ARN) of the resource you want to add tags to.

- Type: String
- Required: Yes

**Tags (p. 11)**

The key-value pair that represents the tag you want to add to the resource. The value can be an empty string.

- **Note**
  Valid characters for key and value are letters, spaces, and numbers representable in UTF-8 format, and the following special characters: \+ - = . _ : / @.

- Type: Array of Tag (p. 241) objects
Response Syntax

```json
{
    "ResourceARN": "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.

**ResourceARN (p. 12)**

The Amazon Resource Name (ARN) of the resource you want to add tags to.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 257)](https://docs.aws.amazon.com/AmazonS3/latest/API/Errors.html).

**InternalServerError**

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

**InvalidGatewayRequestException**

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

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
See Also

- AWS SDK for Ruby V2
AddUploadBuffer

Configures one or more gateway local disks as upload buffer for a specified gateway. This operation is supported for the stored volume, cached volume and tape gateway types.

In the request, you specify the gateway Amazon Resource Name (ARN) to which you want to add upload buffer, and one or more disk IDs that you want to configure as upload buffer.

Request Syntax

```
{
  "DiskIds": [ "string" ],
  "GatewayARN": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**DiskIds (p. 14)**

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 300.

Required: Yes

**GatewayARN (p. 14)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{
  "GatewayARN": "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.
**GatewayARN (p. 14)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 257).

**InternalServerError**

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

**InvalidGatewayRequestException**

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

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
AddWorkingStorage

Configures one or more gateway local disks as working storage for a gateway. This operation is only supported in the stored volume gateway type. This operation is deprecated in cached volume API version 20120630. Use AddUploadBuffer (p. 14) instead.

**Note**
Working storage is also referred to as upload buffer. You can also use the AddUploadBuffer (p. 14) operation to add upload buffer to a stored volume gateway.

In the request, you specify the gateway Amazon Resource Name (ARN) to which you want to add working storage, and one or more disk IDs that you want to configure as working storage.

**Request Syntax**

```json
{
  "DiskIds": [ "string" ],
  "GatewayARN": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**DiskIds (p. 16)**

An array of strings that identify disks that are to be configured as working storage. Each string have a minimum length of 1 and maximum length of 300. You can get the disk IDs from the ListLocalDisks (p. 143) API.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 300.

Required: Yes

**GatewayARN (p. 16)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

**Response Syntax**

```json
{
  "GatewayARN": "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.

**GatewayARN (p. 16)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

- **Type**: String
- **Length Constraints**: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 257)](#).

**InternalServerError**

An internal server error has occurred during the request. For more information, see the error and message fields.

- **HTTP Status Code**: 400

**InvalidGatewayRequestException**

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

- **HTTP Status Code**: 400

Example

**Example Request**

The following example shows a request that specifies that two local disks of a gateway are to be configured as working storage.

**Sample Request**

```text
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR00OKIRLGOHVAICUFVY4KQNS05AENVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.AddWorkingStorage
{
  "GatewayARN": "arn:aws:storagegateway:us-east-2:111122223333:gateway/sgw-12A3456B"
  "DiskIds": ["pci-0000:03:00.0-scsi-0:0:0:0", "pci-0000:04:00.0-scsi-1:0:0:0"]
}
```
Sample Response

HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSOSAEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 80
{
   "GatewayARN": "arn:aws:storagegateway:us-east-2:111122223333:gateway/sgw-12A3456B"
}

See Also

For more information about using this API in one of the language-specific AWS 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
CancelArchival

Cancels archiving of a virtual tape to the virtual tape shelf (VTS) after the archiving process is initiated. This operation is only supported in the tape gateway type.

Request Syntax

```
{
  "GatewayARN": "string",
  "TapeARN": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**GatewayARN (p. 19)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

**TapeARN (p. 19)**

The Amazon Resource Name (ARN) of the virtual tape you want to cancel archiving for.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.


Required: Yes

Response Syntax

```
{
  "TapeARN": "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.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

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
CancelRetrieval

Cancels retrieval of a virtual tape from the virtual tape shelf (VTS) to a gateway after the retrieval process is initiated. The virtual tape is returned to the VTS. This operation is only supported in the tape gateway type.

Request Syntax

```json
{
    "GatewayARN": "string",
    "TapeARN": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

GatewayARN (p. 21)

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

TapeARN (p. 21)

The Amazon Resource Name (ARN) of the virtual tape you want to cancel retrieval for.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.


Required: Yes

Response Syntax

```json
{
    "TapeARN": "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.
TapeARN (p. 21)

The Amazon Resource Name (ARN) of the virtual tape for which retrieval was canceled.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.


Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

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
CreateCachediSCSIVolume

Creates a cached volume on a specified cached volume gateway. This operation is only supported in the cached volume gateway type.

**Note**
Cache storage must be allocated to the gateway before you can create a cached volume. Use the AddCache (p. 8) operation to add cache storage to a gateway.

In the request, you must specify the gateway, size of the volume in bytes, the iSCSI target name, an IP address on which to expose the target, and a unique client token. In response, the gateway creates the volume and returns information about it. This information includes the volume Amazon Resource Name (ARN), its size, and the iSCSI target ARN that initiators can use to connect to the volume target.

Optionally, you can provide the ARN for an existing volume as the `SourceVolumeARN` for this cached volume, which creates an exact copy of the existing volume's latest recovery point. The `VolumeSizeInBytes` value must be equal to or larger than the size of the copied volume, in bytes.

**Request Syntax**

```json
{
  "ClientToken": "string",
  "GatewayARN": "string",
  "KMSEncrypted": boolean,
  "KMSKey": "string",
  "NetworkInterfaceId": "string",
  "SnapshotId": "string",
  "SourceVolumeARN": "string",
  "TargetName": "string",
  "VolumeSizeInBytes": number
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**ClientToken (p. 23)**

A unique identifier that you use to retry a request. If you retry a request, use the same `ClientToken` you specified in the initial request.

Type: String


Required: Yes

**GatewayARN (p. 23)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.
Request Parameters

**KMSEncrypted (p. 23)**

True to use Amazon S3 server side encryption with your own AWS KMS key, or false to use a key managed by Amazon S3. Optional.

Type: Boolean

**KMSKey (p. 23)**

The Amazon Resource Name (ARN) of the AWS KMS key used for Amazon S3 server side encryption. This value can only be set when KMSEncrypted is true. Optional.

Type: String


**NetworkInterfaceId (p. 23)**

The network interface of the gateway on which to expose the iSCSI target. Only IPv4 addresses are accepted. Use DescribeGatewayInformation (p. 90) to get a list of the network interfaces available on a gateway.

Valid Values: A valid IP address.

**SnapshotId (p. 23)**

The snapshot ID (e.g. "snap-1122aabb") of the snapshot to restore as the new cached volume. Specify this field if you want to create the iSCSI storage volume from a snapshot otherwise do not include this field. To list snapshots for your account use DescribeSnapshots in the Amazon Elastic Compute Cloud API Reference.

**SourceVolumeARN (p. 23)**

The ARN for an existing volume. Specifying this ARN makes the new volume into an exact copy of the specified existing volume's latest recovery point. The VolumeSizeInBytes value for this new volume must be equal to or larger than the size of the existing volume, in bytes.

**TargetName (p. 23)**

The name of the iSCSI target used by initiators to connect to the target and as a suffix for the target ARN. For example, specifying TargetName as myvolume results in the target
  iqn.1997-05.com.amazon:myvolume. The target name must be unique across all volumes of a
gateway.

  Type: String
  Pattern: ^[-\.;a-zA-Z0-9]+$
  Required: Yes

**VolumeSizeInBytes (p. 23)**

  The size of the volume in bytes.

  Type: Long
  Required: Yes

**Response Syntax**

```json
{
  "TargetARN": "string",
  "VolumeARN": "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.

**TargetARN (p. 25)**

  The Amazon Resource Name (ARN) of the volume target that includes the iSCSI name that initiators
can use to connect to the target.

  Type: String
  Length Constraints: Minimum length of 50. Maximum length of 800.

**VolumeARN (p. 25)**

  The Amazon Resource Name (ARN) of the configured volume.

  Type: String
  Length Constraints: Minimum length of 50. Maximum length of 500.

**Errors**

For information about the errors that are common to all actions, see *Common Errors (p. 257).*

**InternalServer>Error**

  An internal server error has occurred during the request. For more information, see the error and
  message fields.
HTTP Status Code: 400
**InvalidGatewayRequestException**

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

**Example**

**Example Request**

The following example shows a request that specifies that a local disk of a gateway be configured as a cached volume.

**Sample Request**

```
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20120425/us-east-2/
storagegateway/aws4_request, SignedHeaders=content-type;host;x-amz-date;x-amz-target,
Signature=9cd5a3584d1d67d57e61f120f35102d6b3649066abdd4bf4bbcf05bd9f2f8fe2
x-amz-date: 20120912T120000Z
x-amz-target: StorageGateway_20120630.CreateCachediSCSIVolume
{}
```

**Sample Response**

```
HTTP/1.1 200 OK
x-amzn-RequestId: gur28r2rqlgb8vvs0mq17hlgij1q8gllle1qe4kpgg60kstauu0
Date: Wed, 12 Sep 2012 12:00:02 GMT
Content-Type: application/x-amz-json-1.1
Content-length: 263
{
vol-1122AABB"
}
```

**See Also**

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

- 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
CreateNFSFileShare

Creates a Network File System (NFS) file share on an existing file gateway. In Storage Gateway, a file share is a file system mount point backed by Amazon S3 cloud storage. Storage Gateway exposes file shares using a NFS interface. This operation is only supported for file gateways.

**Important**

File gateway requires AWS Security Token Service (AWS STS) to be activated to enable you to create a file share. Make sure AWS STS is activated in the region you are creating your file gateway in. If AWS STS is not activated in the region, activate it. For information about how to activate AWS STS, see Activating and Deactivating AWS STS in an AWS Region in the AWS Identity and Access Management User Guide. File gateway does not support creating hard or symbolic links on a file share.

**Request Syntax**

```json
{
    "ClientList": [ "string" ],
    "ClientToken": "string",
    "DefaultStorageClass": "string",
    "GatewayARN": "string",
    "GuessMIMETypeEnabled": boolean,
    "KMSEncrypted": boolean,
    "KMSKey": "string",
    "LocationARN": "string",
    "NFSFileShareDefaults": {
        "DirectoryMode": "string",
        "FileMode": "string",
        "GroupId": number,
        "OwnerId": number
    },
    "ObjectACL": "string",
    "ReadOnly": boolean,
    "RequesterPays": boolean,
    "Role": "string",
    "Squash": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**ClientList (p. 28)**

The list of clients that are allowed to access the file gateway. The list must contain either valid IP addresses or valid CIDR blocks.

Type: Array of strings

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

Pattern: ^((\[0-9\]|1-9)(9[0-9]|1[0-9]\[0-9]\[0-9]\[0-9]\[2][0-4][0-9][0-9]|25[0-5])\.)\(\[0-9\]|1-9\)\[0-9\]1[0-9]\[0-9]\[2][0-4][0-9][0-9]|25[0-5]\)\(\//\((0-9)|[1-2][0-9]\[0-9]|3[0-2]\))$?

Required: No
Request Parameters

**ClientToken (p. 28)**
A unique string value that you supply that is used by file gateway to ensure idempotent file share creation.

Type: String


Required: Yes

**DefaultStorageClass (p. 28)**
The default storage class for objects put into an Amazon S3 bucket by the file gateway. Possible values are `S3_STANDARD`, `S3_STANDARD_IA`, or `S3_ONEZONE_IA`. If this field is not populated, the default value `S3_STANDARD` is used. Optional.

Type: String


Required: No

**GatewayARN (p. 28)**
The Amazon Resource Name (ARN) of the file gateway on which you want to create a file share.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

**GuessMIMETypeEnabled (p. 28)**
A value that enables guessing of the MIME type for uploaded objects based on file extensions. Set this value to true to enable MIME type guessing, and otherwise to false. The default value is true.

Type: Boolean

Required: No

**KMSEncrypted (p. 28)**
True to use Amazon S3 server side encryption with your own AWS KMS key, or false to use a key managed by Amazon S3. Optional.

Type: Boolean

Required: No

**KMSKey (p. 28)**
The Amazon Resource Name (ARN) AWS KMS key used for Amazon S3 server side encryption. This value can only be set when KMSEncrypted is true. Optional.

Type: String


Required: No

**LocationARN (p. 28)**
The ARN of the backed storage used for storing file data.
Type: String

Required: Yes

**NFSFileShareDefaults (p. 28)**

File share default values. Optional.

Type: NFSFileShareDefaults (p. 227) object

Required: No

**ObjectACL (p. 28)**

A value that sets the access control list permission for objects in the S3 bucket that a file gateway puts objects into. The default value is "private".

Type: String

Valid Values: private | public-read | public-read-write | authenticated-read | bucket-owner-read | bucket-owner-full-control | aws-exec-read

Required: No

**ReadOnly (p. 28)**

A value that sets the write status of a file share. This value is true if the write status is read-only, and otherwise false.

Type: Boolean

Required: No

**RequesterPays (p. 28)**

A value that sets the access control list permission for objects in the Amazon S3 bucket that a file gateway puts objects into. The default value is private.

Type: Boolean

Required: No

**Role (p. 28)**

The ARN of the AWS Identity and Access Management (IAM) role that a file gateway assumes when it accesses the underlying storage.

Type: String


Required: Yes

**Squash (p. 28)**

Maps a user to anonymous user. Valid options are the following:
- **RootSquash** - Only root is mapped to anonymous user.
- **NoSquash** - No one is mapped to anonymous user
- **AllSquash** - Everyone is mapped to anonymous user.

Type: String

Response Syntax

```json
{
  "FileShareARN": "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.

**FileShareARN (p. 31)**

The Amazon Resource Name (ARN) of the newly created file share.

- **Type**: String
- **Length Constraints**: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

- **InternalServerError**
  
  An internal server error has occurred during the request. For more information, see the error and message fields.
  
  HTTP Status Code: 400

- **InvalidGatewayRequestException**
  
  An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.
  
  HTTP Status Code: 400

Example

Create a File Share

In the following request, you create a file share using an existing file gateway and use your own AWS KMS key to perform server-side encryption of the contents of the file share.

**Sample Request**

```json
{
  "ClientList": "10.1.1.1",
  "ClientToken": "xy23421",
  "DefaultStorageClass": "S3_STANDARD",
}
```
"KMSEncrypted": "true",
"KMSKey": "arn:aws:kms:us-east-1:11111111:key/b72aa2a-2222-9tt-12345690qwe",
"LocationARN": "arn:aws:s3:::my-bucket-alpha",
"NfsFileShareDefaults":
  {"FileMode": "0777",
   "DirectoryMode": "0777",
   "GroupId": 500,
   "OwnerId": 500},
"GuessMIMETypeEnabled": "true",
"KMSEncrypted": "false",
"Role": "arn:aws:iam::111122223333:role/my-role",
"ObjectACL": "bucket-owner-full-control",
"ReadOnly": "false",
"RequesterPays": "false",
"LocationARN": "arn:aws:s3:::my-bucket-alpha",
"DefaultStorageClass": "S3_STANDARD",
"Squash": "RootSquash"}

Sample Response


See Also

For more information about using this API in one of the language-specific AWS 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
CreateSMBFileShare

Creates a Server Message Block (SMB) file share on an existing file gateway. In Storage Gateway, a file share is a file system mount point backed by Amazon S3 cloud storage. Storage Gateway expose file shares using a SMB interface. This operation is only supported for file gateways.

Important
File gateways require AWS Security Token Service (AWS STS) to be activated to enable you to create a file share. Make sure that AWS STS is activated in the AWS Region you are creating your file gateway in. If AWS STS is not activated in this AWS Region, activate it. For information about how to activate AWS STS, see Activating and Deactivating AWS STS in an AWS Region in the AWS Identity and Access Management User Guide.
File gateways don't support creating hard or symbolic links on a file share.

Request Syntax

```json
{
    "Authentication": "string",
    "ClientToken": "string",
    "DefaultStorageClass": "string",
    "GatewayARN": "string",
    "GuessMIMTypeEnabled": boolean,
    "InvalidUserList": [ "string" ],
    "KMSEncrypted": boolean,
    "KMSKey": "string",
    "LocationARN": "string",
    "ObjectACL": "string",
    "ReadOnly": boolean,
    "RequesterPays": boolean,
    "Role": "string",
    "ValidUserList": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

Authentication (p. 33)

The authentication method that users use to access the file share.

Valid values are ActiveDirectory or GuestAccess. The default is ActiveDirectory.

Type: String


Required: No

ClientToken (p. 33)

A unique string value that you supply that is used by file gateway to ensure idempotent file share creation.

Type: String

Required: Yes

**DefaultStorageClass (p. 33)**

The default storage class for objects put into an Amazon S3 bucket by the file gateway. Possible values are S3_STANDARD, S3_STANDARD_IA, or S3_ONEZONE_IA. If this field is not populated, the default value S3_STANDARD is used. Optional.

Type: String


Required: No

**GatewayARN (p. 33)**

The Amazon Resource Name (ARN) of the file gateway on which you want to create a file share.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

**GuessMIMETypeEnabled (p. 33)**

A value that enables guessing of the MIME type for uploaded objects based on file extensions. Set this value to true to enable MIME type guessing, and otherwise to false. The default value is true.

Type: Boolean

Required: No

**InvalidUserList (p. 33)**

A list of users or groups in the Active Directory that are not allowed to access the file share. A group must be prefixed with the @ character. For example @group1. Can only be set if Authentication is set to ActiveDirectory.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

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

Required: No

**KMSEncrypted (p. 33)**

True to use Amazon S3 server side encryption with your own AWS KMS key, or false to use a key managed by Amazon S3. Optional.

Type: Boolean

Required: No

**KMSKey (p. 33)**

The Amazon Resource Name (ARN) of the AWS KMS key used for Amazon S3 server side encryption. This value can only be set when KMSEncrypted is true. Optional.

Type: String

Required: No

**LocationARN (p. 33)**

The ARN of the backed storage used for storing file data.

Type: String


Required: Yes

**ObjectACL (p. 33)**

A value that sets the access control list permission for objects in the S3 bucket that a file gateway puts objects into. The default value is "private".

Type: String

Valid Values:
- private
- public-read
- public-read-write
- authenticated-read
- bucket-owner-read
- bucket-owner-full-control
- aws-exec-read

Required: No

**ReadOnly (p. 33)**

A value that sets the write status of a file share. This value is true if the write status is read-only, and otherwise false.

Type: Boolean

Required: No

**RequesterPays (p. 33)**

A value that sets the access control list permission for objects in the Amazon S3 bucket that a file gateway puts objects into. The default value is `private`.

Type: Boolean

Required: No

**Role (p. 33)**

The ARN of the AWS Identity and Access Management (IAM) role that a file gateway assumes when it accesses the underlying storage.

Type: String


Required: Yes

**ValidUserList (p. 33)**

A list of users or groups in the Active Directory that are allowed to access the file share. A group must be prefixed with the `@` character. For example `@group1`. Can only be set if Authentication is set to `ActiveDirectory`.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

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

Required: No
Response Syntax

```json
{
  "FileShareARN": "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.

**FileShareARN (p. 36)**

The Amazon Resource Name (ARN) of the newly created file share.

- **Type:** String
- **Length Constraints:** Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 257)](https://docs.aws.amazon.com/storagegateway/latest/APIReference/PartialState.html#CommonErrors).

**InternalServerError**

An internal server error has occurred during the request. For more information, see the error and message fields.

- **HTTP Status Code:** 400

**InvalidGatewayRequestException**

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

- **HTTP Status Code:** 400

Example

Create a File Share

In the following request, you create a SMB file share using an existing file gateway and use your own AWS KMS key to perform server-side encryption of the contents of the file share.

Sample Request

```json
{
  "Authentication": "ActiveDirectory",
  "ClientToken": "xy23421",
  "DefaultStorageClass": "S3_STANDARD",
  "GuessMIMETypeEnabled": "true",
  "InvalidList": ["user1", "$group1"],
```
"KMSEncrypted": "true",
"KMSKey": "arn:aws:kms:us-east-1:111111111:key/b72aaa2a-2222-99tt-12345690qwe",
"LocationARN": "arn:aws:s3:::my-bucket-alpha",
"ObjectACL": "bucket-owner-full-control",
"ReadOnly": "false",
"RequesterPays": "false",
"Role": "arn:aws:iam::11122233333:role/my-role",
"ValidUserList": ["user2", "@group2"]
}

Sample Response


See Also

For more information about using this API in one of the language-specific AWS 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
CreateSnapshot

Initiates a snapshot of a volume.

AWS Storage Gateway provides the ability to back up point-in-time snapshots of your data to Amazon Simple Storage (S3) for durable off-site recovery, as well as import the data to an Amazon Elastic Block Store (EBS) volume in Amazon Elastic Compute Cloud (EC2). You can take snapshots of your gateway volume on a scheduled or ad-hoc basis. This API enables you to take ad-hoc snapshot. For more information, see Editing a Snapshot Schedule.

In the CreateSnapshot request you identify the volume by providing its Amazon Resource Name (ARN). You must also provide description for the snapshot. When AWS Storage Gateway takes the snapshot of specified volume, the snapshot and description appears in the AWS Storage Gateway Console. In response, AWS Storage Gateway returns you a snapshot ID. You can use this snapshot ID to check the snapshot progress or later use it when you want to create a volume from a snapshot. This operation is only supported in stored and cached volume gateway type.

**Note**
To list or delete a snapshot, you must use the Amazon EC2 API. For more information, see DescribeSnapshots or DeleteSnapshot in the EC2 API reference.

**Important**
Volume and snapshot IDs are changing to a longer length ID format. For more information, see the important note on the Welcome page.

Request Syntax

```
{
  "SnapshotDescription": "string",
  "VolumeARN": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**SnapshotDescription (p. 38)**

Textual description of the snapshot that appears in the Amazon EC2 console, Elastic Block Store snapshots panel in the Description field, and in the AWS Storage Gateway snapshot Details pane, Description field

Type: String

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

Required: Yes

**VolumeARN (p. 38)**

The Amazon Resource Name (ARN) of the volume. Use the ListVolumes (p. 158) operation to return a list of gateway volumes.

Type: String
Response Syntax

```
{
   "SnapshotId": "string",
   "VolumeARN": "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.

**SnapshotId (p. 39)**

The snapshot ID that is used to refer to the snapshot in future operations such as describing snapshots (Amazon Elastic Compute Cloud API DescribeSnapshots) or creating a volume from a snapshot (CreateStorediSCSIVolume (p. 44)).

Type: String

Pattern: \Asnap-(\[0-9A-Fa-f\]{8}|\[0-9A-Fa-f\]{17})\z

**VolumeARN (p. 39)**

The Amazon Resource Name (ARN) of the volume of which the snapshot was taken.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

**InternalServerError**

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

**InvalidGatewayRequestException**

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

**ServiceUnavailableError**

An internal server error has occurred because the service is unavailable. For more information, see the error and message fields.

HTTP Status Code: 400
Example

Example Request

The following example sends a CreateSnapshot request to take snapshot of the specified an example volume.

Sample Request

```plaintext
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR000KIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.CreateSnapshot
{
  "SnapshotDescription": "snapshot description"
}
```

Sample Response

```plaintext
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR000KIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 128
{
  "SnapshotId": "snap-78e22663"
}
```

See Also

For more information about using this API in one of the language-specific AWS 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
CreateSnapshotFromVolumeRecoveryPoint

Initiates a snapshot of a gateway from a volume recovery point. This operation is only supported in the cached volume gateway type.

A volume recovery point is a point in time at which all data of the volume is consistent and from which you can create a snapshot. To get a list of volume recovery point for cached volume gateway, use ListVolumeRecoveryPoints (p. 155).

In the CreateSnapshotFromVolumeRecoveryPoint request, you identify the volume by providing its Amazon Resource Name (ARN). You must also provide a description for the snapshot. When the gateway takes a snapshot of the specified volume, the snapshot and its description appear in the AWS Storage Gateway console. In response, the gateway returns you a snapshot ID. You can use this snapshot ID to check the snapshot progress or later use it when you want to create a volume from a snapshot.

**Note**
To list or delete a snapshot, you must use the Amazon EC2 API. For more information, in Amazon Elastic Compute Cloud API Reference.

**Request Syntax**

```json
{
    "SnapshotDescription": "string",
    "VolumeARN": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**SnapshotDescription (p. 41)**

- Type: String
- Required: Yes

**VolumeARN (p. 41)**

- Type: String
- Required: Yes

**Response Syntax**

```json
{
    "SnapshotId": "string",
    "VolumeARN": "string",
    "VolumeRecoveryPointTime": "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.

**SnapshotId (p. 41)**

Type: String

Pattern: `\Asnap-\([0-9A-Fa-f]{8}\)|([0-9A-Fa-f]{17})\z`

**VolumeARN (p. 41)**

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

**VolumeRecoveryPointTime (p. 41)**

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

**InternalServerError**

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

**InvalidGatewayRequestException**

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

**ServiceUnavailableError**

An internal server error has occurred because the service is unavailable. For more information, see the error and message fields.

HTTP Status Code: 400

Example

Example Request

The following example sends a `CreateSnapshotFromVolumeRecoveryPoint` request to take snapshot of the specified an example volume.

Sample Request

```
POST / HTTP/1.1
```
See Also

For more information about using this API in one of the language-specific AWS 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
Create StorediSCSIVolume

Creates a volume on a specified gateway. This operation is only supported in the stored volume gateway type.

The size of the volume to create is inferred from the disk size. You can choose to preserve existing data on the disk, create volume from an existing snapshot, or create an empty volume. If you choose to create an empty gateway volume, then any existing data on the disk is erased.

In the request you must specify the gateway and the disk information on which you are creating the volume. In response, the gateway creates the volume and returns volume information such as the volume Amazon Resource Name (ARN), its size, and the iSCSI target ARN that initiators can use to connect to the volume target.

Request Syntax

```json
{
  "DiskId": "string",
  "GatewayARN": "string",
  "NetworkInterfaceId": "string",
  "PreserveExistingData": boolean,
  "SnapshotId": "string",
  "TargetName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**DiskId (p. 44)**

The unique identifier for the gateway local disk that is configured as a stored volume. Use ListLocalDisks to list disk IDs for a gateway.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 300.

Required: Yes

**GatewayARN (p. 44)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

**NetworkInterfaceId (p. 44)**

The network interface of the gateway on which to expose the iSCSI target. Only IPv4 addresses are accepted. Use DescribeGatewayInformation (p. 90) to get a list of the network interfaces available on a gateway.
Valid Values: A valid IP address.
Type: String
Pattern: ^\(25[0-5]|2[0-4]\d|[0-1]?\d?\d\)\.(25[0-5]|2[0-4]\d|[0-1]?\d?\d)\)$
Required: Yes

PreserveExistingData (p. 44)

Specify this field as true if you want to preserve the data on the local disk. Otherwise, specifying this field as false creates an empty volume.
Valid Values: true, false
Type: Boolean
Required: Yes

SnapshotId (p. 44)

The snapshot ID (e.g. "snap-1122aabb") of the snapshot to restore as the new stored volume. Specify this field if you want to create the iSCSI storage volume from a snapshot otherwise do not include this field. To list snapshots for your account use DescribeSnapshots in the Amazon Elastic Compute Cloud API Reference.
Type: String
Pattern: ^snap-(\[0-9A-Fa-f\]{8}|\[0-9A-Fa-f\]{17})$%
Required: No

TargetName (p. 44)

The name of the iSCSI target used by initiators to connect to the target and as a suffix for the target ARN. For example, specifying TargetName as myvolume results in the target ARN of arn:aws:storagegateway:us-east-2:111122223333:gateway/sgw-12A3456B/target/ iqn.1997-05.com.amazon:myvolume. The target name must be unique across all volumes of a gateway.
Type: String
Pattern: ^\[-\.;a-z0-9]+$%
Required: Yes

Response Syntax

```json
{
    "TargetARN": "string",
    "VolumeARN": "string",
    "VolumeSizeInBytes": number
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.
The following data is returned in JSON format by the service.

**TargetARN (p. 45)**

The Amazon Resource Name (ARN) of the volume target that includes the iSCSI name that initiators can use to connect to the target.

Type: String
Length Constraints: Minimum length of 50. Maximum length of 800.

**VolumeARN (p. 45)**

The Amazon Resource Name (ARN) of the configured volume.

Type: String
Length Constraints: Minimum length of 50. Maximum length of 500.

**VolumeSizeInBytes (p. 45)**

The size of the volume in bytes.

Type: Long

## Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

**InternalServerError**

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

**InvalidGatewayRequestException**

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

## Example

### Example Request

The following example shows a request that specifies that a local disk of a gateway be configured as a volume.

### Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7ZJPLR000KIRLGOHVA1CUFV4KQNSO5AEMVJF66Q9ASUAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.CreateStorediSCSIVolume
```

API Version 2013-06-30
46
See Also

For more information about using this API in one of the language-specific AWS 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
CreateTapes

Creates one or more virtual tapes. You write data to the virtual tapes and then archive the tapes. This operation is only supported in the tape gateway type.

Note
Cache storage must be allocated to the gateway before you can create virtual tapes. Use the AddCache (p. 8) operation to add cache storage to a gateway.

Request Syntax

```
{
    "ClientToken": "string",
    "GatewayARN": "string",
    "KMSEncrypted": boolean,
    "KMSKey": "string",
    "NumTapesToCreate": number,
    "TapeBarcodePrefix": "string",
    "TapeSizeInBytes": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**ClientToken (p. 48)**

A unique identifier that you use to retry a request. If you retry a request, use the same ClientToken you specified in the initial request.

Note
Using the same ClientToken prevents creating the tape multiple times.

Type: String


Required: Yes

**GatewayARN (p. 48)**

The unique Amazon Resource Name (ARN) that represents the gateway to associate the virtual tapes with. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

**KMSEncrypted (p. 48)**

True to use Amazon S3 server side encryption with your own AWS KMS key, or false to use a key managed by Amazon S3. Optional.

Type: Boolean
Required: No

**KMSKey (p. 48)**

The Amazon Resource Name (ARN) of the AWS KMS key used for Amazon S3 server side encryption. This value can only be set when KMSEncrypted is true. Optional.

Type: String


Required: No

**NumTapesToCreate (p. 48)**

The number of virtual tapes that you want to create.

Type: Integer


Required: Yes

**TapeBarcodePrefix (p. 48)**

A prefix that you append to the barcode of the virtual tape you are creating. This prefix makes the barcode unique.

**Note**

The prefix must be 1 to 4 characters in length and must be one of the uppercase letters from A to Z.

Type: String


Pattern: ^[A-Z]*$

Required: Yes

**TapeSizeInBytes (p. 48)**

The size, in bytes, of the virtual tapes that you want to create.

**Note**

The size must be aligned by gigabyte (1024*1024*1024 byte).

Type: Long

Required: Yes

**Response Syntax**

```
{
  "TapeARNs": [ "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.
**TapeARNs (p. 49)**

A list of unique Amazon Resource Names (ARNs) that represents the virtual tapes that were created.

Type: Array of strings

Length Constraints: Minimum length of 50. Maximum length of 500.


**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 257).

**InternalServerError**

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

**InvalidGatewayRequestException**

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

**Example**

**Create tapes in a tape gateway**

In the following request, you add three virtual tape cartridges, 100 GB each in size, to the tape gateway with the ID sgw-12A3456B. The tapes appear in the gateway's virtual tape library. In the request, you set the tape's barcode prefix to "TEST".

**Sample Request**

```
{
    "KMSEncrypted": "true",
    "KMSKey": "arn:aws:kms:us-east-1:11111111:key/b72aaa2a-2222-99tt-12345690qwe",
    "TapeSizeInBytes":107374182400,
    "ClientToken": "??????",
    "NumTapesToCreate": 3,
    "TapeBarcodePrefix": "TEST"
}
```

**Sample Response**

```
{"TapeARNs":
}
```
See Also

For more information about using this API in one of the language-specific AWS 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
CreateTapeWithBarcode

Creates a virtual tape by using your own barcode. You write data to the virtual tape and then archive the tape. A barcode is unique and can not be reused if it has already been used on a tape. This applies to barcodes used on deleted tapes. This operation is only supported in the tape gateway type.

**Note**
Cache storage must be allocated to the gateway before you can create a virtual tape. Use the AddCache (p. 8) operation to add cache storage to a gateway.

**Request Syntax**

```
{
    "GatewayARN": "string",
    "KMSEncrypted": boolean,
    "KMSKey": "string",
    "TapeBarcode": "string",
    "TapeSizeInBytes": number
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**GatewayARN (p. 52)**

The unique Amazon Resource Name (ARN) that represents the gateway to associate the virtual tape with. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

**KMSEncrypted (p. 52)**

True to use Amazon S3 server side encryption with your own AWS KMS key, or false to use a key managed by Amazon S3. Optional.

Type: Boolean

Required: No

**KMSKey (p. 52)**

The Amazon Resource Name (ARN) of the AWS KMS Key used for Amazon S3 server side encryption. This value can only be set when KMSEncrypted is true. Optional.

Type: String


Required: No
**TapeBarcode (p. 52)**

The barcode that you want to assign to the tape.

**Note**

Barcodes cannot be reused. This includes barcodes used for tapes that have been deleted.

Type: String


Pattern: `^[A-Z0-9]*$`

Required: Yes

**TapeSizeInBytes (p. 52)**

The size, in bytes, of the virtual tape that you want to create.

**Note**

The size must be aligned by gigabyte (1024*1024*1024 byte).

Type: Long

Required: Yes

---

**Response Syntax**

```json
{
    "TapeARN": "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.

**TapeARN (p. 53)**

A unique Amazon Resource Name (ARN) that represents the virtual tape that was created.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.


---

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 257).

**InternalServerError**

An internal server error has occurred during the request. For more information, see the error and message fields.
HTTP Status Code: 400

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

Example

Create a tape with your own barcode in a tape gateway

In the following request, you add a 100 GB tape cartridge to the tape gateway with the ID sgw-12A3456B. The tape appears in the gateway's virtual tape library. In the request, you set the barcode to "TEST12345".

Sample Request

```json
{
    "KMSEncrypted": "true",
    "KMSKey": "arn:aws:kms:us-east-1:11111111:key/b72aaa2a-2222-99tt-12345690qwe",
    "TapeSizeInBytes":107374182400,
    "TapeBarcode":"TEST12345"
}
```

Sample Response

```json
{"TapeARN":
 ["arn:aws:storagegateway:us-east-2:999999999999:tape/TEST12345"]
}
```

See Also

For more information about using this API in one of the language-specific AWS 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
DeleteBandwidthRateLimit

Deletes the bandwidth rate limits of a gateway. You can delete either the upload and download bandwidth rate limit, or you can delete both. If you delete only one of the limits, the other limit remains unchanged. To specify which gateway to work with, use the Amazon Resource Name (ARN) of the gateway in your request.

Request Syntax

```
{
    "BandwidthType": "string",
    "GatewayARN": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**BandwidthType (p. 55)**

One of the BandwidthType values that indicates the gateway bandwidth rate limit to delete.

Valid Values: Upload, Download, All.

Type: String


Required: Yes

**GatewayARN (p. 55)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{
    "GatewayARN": "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.
GatewayARN (p. 55)

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

Example

Example Request

The following example shows a request that deletes both of the bandwidth rate limits of a gateway.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNS05AEVMVF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.DeleteBandwidthRateLimit
{
   "BandwidthType": "All"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNS05AEVMVF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 80
{
```
"GatewayARN": "arn:aws:storagegateway:us-east-2:111122223333:gateway/sgw-12A3456B"
}

See Also

For more information about using this API in one of the language-specific AWS 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
DeleteChapCredentials

Deletes Challenge-Handshake Authentication Protocol (CHAP) credentials for a specified iSCSI target and initiator pair.

Request Syntax

```
{
    "InitiatorName": "string",
    "TargetARN": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**InitiatorName (p. 58)**

The iSCSI initiator that connects to the target.

Type: String

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

Pattern: [0-9a-z:.-]+

Required: Yes

**TargetARN (p. 58)**

The Amazon Resource Name (ARN) of the iSCSI volume target. Use the DescribeStorediSCSIVolumes (p. 108) operation to return to retrieve the TargetARN for specified VolumeARN.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 800.

Required: Yes

Response Syntax

```
{
    "InitiatorName": "string",
    "TargetARN": "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.
InitiatorName (p. 58)

The iSCSI initiator that connects to the target.

Type: String

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

Pattern: \[0-9a-z:.-\]+  

TargetARN (p. 58)

The Amazon Resource Name (ARN) of the target.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 800.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

Example

Example Request

The following example shows a request that deletes the CHAP credentials for an iSCSI target myvolume.

Sample Request

```plaintext
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR0OKIRLGOHVAICUFVV4KQNS05AENVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.DeleteChapCredentials
{
  "InitiatorName": "iqn.1991-05.com.microsoft:computername.domain.example.com"
}
```

API Version 2013-06-30

59
Sample Response

HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR0O0KIRLGOHVAICUFVY4KQNSOSAEVF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 161
{
    "InitiatorName": "iqn.1991-05.com.microsoft:computername.domain.example.com"
}

See Also

For more information about using this API in one of the language-specific AWS 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
DeleteFileShare

Deletes a file share from a file gateway. This operation is only supported for file gateways.

Request Syntax

```
{
    "FileShareARN": "string",
    "ForceDelete": boolean
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

FileShareARN (p. 61)

The Amazon Resource Name (ARN) of the file share to be deleted.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

ForceDelete (p. 61)

If this value is set to true, the operation deletes a file share immediately and aborts all data uploads to AWS. Otherwise, the file share is not deleted until all data is uploaded to AWS. This process aborts the data upload process, and the file share enters the FORCE_DELETING status.

Type: Boolean

Required: No

Response Syntax

```
{
    "FileShareARN": "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.

FileShareARN (p. 61)

The Amazon Resource Name (ARN) of the deleted file share.

Type: String
Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

Example

Delete a File Share

In the following request, you delete a file share from a file gateway.

Sample Request

```
```

Sample Response

```
```

See Also

For more information about using this API in one of the language-specific AWS 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
DeleteGateway

Deletes a gateway. To specify which gateway to delete, use the Amazon Resource Name (ARN) of the gateway in your request. The operation deletes the gateway; however, it does not delete the gateway virtual machine (VM) from your host computer.

After you delete a gateway, you cannot reactivate it. Completed snapshots of the gateway volumes are not deleted upon deleting the gateway, however, pending snapshots will not complete. After you delete a gateway, your next step is to remove it from your environment.

Important
You no longer pay software charges after the gateway is deleted; however, your existing Amazon EBS snapshots persist and you will continue to be billed for these snapshots. You can choose to remove all remaining Amazon EBS snapshots by canceling your Amazon EC2 subscription. If you prefer not to cancel your Amazon EC2 subscription, you can delete your snapshots using the Amazon EC2 console. For more information, see the AWS Storage Gateway Detail Page.

Request Syntax

```json
{
  "GatewayARN": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

GatewayARN (p. 64)

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```json
{
  "GatewayARN": "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.
GatewayARN (p. 64)

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

Example

Example Request

The following example shows a request that deactivates a gateway.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR00OKIRLG0HVAICUFV4KQNS05AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.DeleteGateway
{
  "GatewayARN": "arn:aws:storagegateway:us-east-2:111122223333:gateway/sgw-12A3456B"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR00OKIRLG0HVAICUFV4KQNS05AEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 80
{
  "GatewayARN": "arn:aws:storagegateway:us-east-2:111122223333:gateway/sgw-12A3456B"
}
```
See Also

For more information about using this API in one of the language-specific AWS 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
DeleteSnapshotSchedule

Deletes a snapshot of a volume.

You can take snapshots of your gateway volumes on a scheduled or ad hoc basis. This API action enables you to delete a snapshot schedule for a volume. For more information, see Working with Snapshots. In the DeleteSnapshotSchedule request, you identify the volume by providing its Amazon Resource Name (ARN). This operation is only supported in stored and cached volume gateway types.

Note
To list or delete a snapshot, you must use the Amazon EC2 API. in Amazon Elastic Compute Cloud API Reference.

Request Syntax

```json
{
   "VolumeARN": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**VolumeARN (p. 67)**

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```json
{
   "VolumeARN": "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.

**VolumeARN (p. 67)**

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).
InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

Example

Example Request

The following example...

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20120425/us-east-2/
storagegateway/aws4_request, SignedHeaders=content-type;host;x-amz-date;x-amz-target,
Signature=9cd5a3584d1d67d57e61f120f35102d6b3649066abdd4bf4bbcf05bd9f2f8fe2
x-amz-date: 20120912T120000Z
x-amz-target: StorageGateway_20120630.DeleteSnapshotSchedule
{
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: gur28r2rg1gb8vvs0mq17hlgiij1q8g1ile1qeu3kpgg6fokstauu0
Date: Wed, 12 Sep 2012 12:00:02 GMT
Content-Type: application/x-amz-json-1.1
Content-length: 137
{
}
```

See Also

For more information about using this API in one of the language-specific AWS 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
DeleteTape

Deletes the specified virtual tape. This operation is only supported in the tape gateway type.

Request Syntax

```json
{
   "GatewayARN": "string",
   "TapeARN": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**GatewayARN (p. 70)**

The unique Amazon Resource Name (ARN) of the gateway that the virtual tape to delete is associated with. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

**TapeARN (p. 70)**

The Amazon Resource Name (ARN) of the virtual tape to delete.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.


Required: Yes

Response Syntax

```json
{
   "TapeARN": "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.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

**InternalServerError**

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

**InvalidGatewayRequestException**

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

Example

Delete a tape from a gateway

The following example deletes a tape from a tape gateway with ID sgw-12A3456B. The request identifies the tape by its ARN. The operation deletes the tapes from the specified gateway's virtual tape library (VTL). In the response Tape gateway returns the ARN of deleted tape.

**Sample Request**

```plaintext
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
x-amz-Date: 20131025T120000Z
Authorization: CSOC7TJPL000KRLQGHVAICUFVV4KVQNSO5AEJVF6G9EXAMPLE
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.DeleteTape
"TapeARN": "arn:aws:storagegateway:us-east-2:123456789012:tape/TEST05A2A0"}
```

**Sample Response**

```json
{"TapeARN": "arn:aws:storagegateway:us-east-2:123456789012:tape/TEST05A2A0"}
```
See Also

For more information about using this API in one of the language-specific AWS 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
DeleteTapeArchive

Deletes the specified virtual tape from the virtual tape shelf (VTS). This operation is only supported in the tape gateway type.

Request Syntax

```json
{
  "TapeARN": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**TapeARN (p. 73)**

The Amazon Resource Name (ARN) of the virtual tape to delete from the virtual tape shelf (VTS).

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.


Required: Yes

Response Syntax

```json
{
  "TapeARN": "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.

**TapeARN (p. 73)**

The Amazon Resource Name (ARN) of the virtual tape that was deleted from the virtual tape shelf (VTS).

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

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
DeleteVolume

Deletes the specified storage volume that you previously created using the CreateCachediSCSIVolume (p. 23) or CreateStorediSCSIVolume (p. 44) API. This operation is only supported in the cached volume and stored volume types. For stored volume gateways, the local disk that was configured as the storage volume is not deleted. You can reuse the local disk to create another storage volume.

Before you delete a volume, make sure there are no iSCSI connections to the volume you are deleting. You should also make sure there is no snapshot in progress. You can use the Amazon Elastic Compute Cloud (Amazon EC2) API to query snapshots on the volume you are deleting and check the snapshot status. For more information, go to DescribeSnapshots in the Amazon Elastic Compute Cloud API Reference.

In the request, you must provide the Amazon Resource Name (ARN) of the storage volume you want to delete.

Request Syntax

```json
{
   "VolumeARN": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**VolumeARN (p. 75)**

The Amazon Resource Name (ARN) of the volume. Use the ListVolumes (p. 158) operation to return a list of gateway volumes.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```json
{
   "VolumeARN": "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.
VolumeARN (p. 75)

The Amazon Resource Name (ARN) of the storage volume that was deleted. It is the same ARN you provided in the request.

Type: String
Length Constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

Example

Example Request

The following example shows a request that deletes a volume.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNS05AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.DeleteVolume
{
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNS05AEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 99
{
```
}

See Also

For more information about using this API in one of the language-specific AWS 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
DescribeBandwidthRateLimit

Returns the bandwidth rate limits of a gateway. By default, these limits are not set, which means no bandwidth rate limiting is in effect.

This operation only returns a value for a bandwidth rate limit only if the limit is set. If no limits are set for the gateway, then this operation returns only the gateway ARN in the response body. To specify which gateway to describe, use the Amazon Resource Name (ARN) of the gateway in your request.

Request Syntax

```
{
   "GatewayARN": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**GatewayARN (p. 78)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{
   "AverageDownloadRateLimitInBitsPerSec": number,
   "AverageUploadRateLimitInBitsPerSec": number,
   "GatewayARN": "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.

**AverageDownloadRateLimitInBitsPerSec (p. 78)**

The average download bandwidth rate limit in bits per second. This field does not appear in the response if the download rate limit is not set.

Type: Long
Valid Range: Minimum value of 102400.

**AverageUploadRateLimitInBitsPerSec (p. 78)**

The average upload bandwidth rate limit in bits per second. This field does not appear in the response if the upload rate limit is not set.

Type: Long

Valid Range: Minimum value of 51200.

**GatewayARN (p. 78)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 257).

**InternalServerError**

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

**InvalidGatewayRequestException**

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

**Example**

**Example Request**

The following example shows a request that returns the bandwidth throttle properties of a gateway.

**Sample Request**

```plaintext
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
x-amz-date: 20120425T120000Z
Authorization: CSOC7TJPLR0OOKIRLGOHVAICUFVV4KQNS05AEMVJF66Q9ASUAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.DescribeBandwidthRateLimit
{
  "GatewayARN": "arn:aws:storagegateway:us-east-2:111122223333:gateway/sgw-12A3456B"
}
```
Sample Response

HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR000KIRLGOHVAICUFVV4KQNS09AEVIF6Q69ASUAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 169
{
    "AverageUploadRateLimitInBitsPerSec": 102400,
    "AverageDownloadRateLimitInBitsPerSec": 51200
}

See Also

For more information about using this API in one of the language-specific AWS 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
DescribeCache

Returns information about the cache of a gateway. This operation is only supported in the cached volume, tape and file gateway types.

The response includes disk IDs that are configured as cache, and it includes the amount of cache allocated and used.

Request Syntax

```json
{
    "GatewayARN": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**GatewayARN (p. 81)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```json
{
    "CacheAllocatedInBytes": number,
    "CacheDirtyPercentage": number,
    "CacheHitPercentage": number,
    "CacheMissPercentage": number,
    "CacheUsedPercentage": number,
    "DiskIds": [ "string" ],
    "GatewayARN": "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.

**CacheAllocatedInBytes (p. 81)**

Type: Long
AWS Storage Gateway Service API Reference

Errors

CacheDirtyPercentage (p. 81)
Type: Double

CacheHitPercentage (p. 81)
Type: Double

CacheMissPercentage (p. 81)
Type: Double

CacheUsedPercentage (p. 81)
Type: Double

DiskIds (p. 81)
Type: Array of strings
Length Constraints: Minimum length of 1. Maximum length of 300.

GatewayARN (p. 81)
The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.
Type: String
Length Constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

InternalServerException
An internal server error has occurred during the request. For more information, see the error and message fields.
HTTP Status Code: 400

InvalidGatewayRequestException
An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.
HTTP Status Code: 400

Example

Example Request

The following example shows a request to obtain a description of a gateway's working storage.

Sample Request

```plaintext
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
Content-Type: application/x-amz-json-1.1
```
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20120425/us-east-2/ storagegateway/aws4_request, SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=9cd5a3584d1d67d57e61f120f35102d6b3649066abdd4bf4bbcf05bd9f2f8fe2 x-amz-date: 20120912T120000Z x-amz-target: StorageGateway_20120630.DescribeCache

{
  "GatewayARN": "arn:aws:storagegateway:us-east-2:111122223333:gateway/sgw-12A3456B"
}

Sample Response

HTTP/1.1 200 OK
x-amzn-RequestId: gur28r2rqlgbvvs0mq17hlgiijlq8gll1qegu3kpggg6fokstauu0
Date: Wed, 12 Sep 2012 12:00:02 GMT
Content-Type: application/x-amz-json-1.1
Content-length: 271

{
  "CacheAllocationInBytes": 2199023255552,
  "CacheDirtyPercentage": 0.07,
  "CacheHitPercentage": 99.68,
  "CacheMissPercentage": 0.32,
  "CacheUsedPercentage": 0.07,
  "DiskIds": [
    "pci-0000:03:00.0-scsi-0:0:0:0",
    "pci-0000:04:00.0-scsi-0:1:0:0"
  ],
  "GatewayARN": "arn:aws:storagegateway:us-east-2:111122223333:gateway/sgw-12A3456B"
}

See Also

For more information about using this API in one of the language-specific AWS 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
DescribeCachediSCSIVolumes

Returns a description of the gateway volumes specified in the request. This operation is only supported in the cached volume gateway types.

The list of gateway volumes in the request must be from one gateway. In the response Amazon Storage Gateway returns volume information sorted by volume Amazon Resource Name (ARN).

Request Syntax

```
{
  "VolumeARNs": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

VolumeARNs (p. 84)

Type: Array of strings

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{
  "CachediSCSIVolumes": [ {
    "CreatedDate": number,
    "KMSKey": "string",
    "SourceSnapshotId": "string",
    "VolumeARN": "string",
    "VolumeId": "string",
    "VolumeiSCSIAttributes": { "ChapEnabled": boolean, "LunNumber": number, "NetworkInterfaceId": "string", "NetworkInterfacePort": number, "TargetARN": "string" },
    "VolumeProgress": number,
    "VolumeSizeInBytes": number,
    "VolumeStatus": "string",
    "VolumeType": "string",
    "VolumeUsedInBytes": number
  }
  ]
}
```
Response Elements

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

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

CachediSCSIVolumes (p. 84)

An array of objects where each object contains metadata about one cached volume.

Type: Array of CachediSCSIVolume (p. 216) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

Example

Example Request

The following example shows a request that returns a description of a volume.

Sample Request

```plaintext
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20120425/us-east-2/
storagegateway/aws4_request, SignedHeaders=content-type;host;x-amz-date;x-amz-target,
Signature=9cd5a3584d1d67d57e61f120f35102d6b3649066abdd4bf4bbcf05bd9f2f8fe2
x-amz-date: 20120912T120000Z
x-amz-target: StorageGateway_20120630.DescribeCachediSCSIVolumes

{
  volume/vol-1122AABB"]
}
```

Sample Response
HTTP/1.1 200 OK
x-amzn-RequestId: gur28r2rqlgb8vvs0mq17hlgijlqg8glle1qeu3kpqg6fokstauu0
Date: Wed, 12 Sep 2012 12:00:02 GMT
Content-Type: application/x-amz-json-1.1
Content-length: 664
{
  "CachediSCSIVolumes": [
    {
      "VolumeiSCSIAttributes": {
        "ChapEnabled": true,
        "LunNumber": 0,
        "NetworkInterfaceId": "10.243.43.207",
        "NetworkInterfacePort": 3260,
      },
      "KMSKey": "arn:aws:kms:us-east-1:11111111:key/b72aaa2a-2222-99tt-12345690qwe",
      "VolumeDiskId": "pci-0000:03:00.0-scsi-0:0:0:0",
      "VolumeId": "vol-1122AABB",
      "VolumeSizeInBytes": 1099511627776,
      "VolumeStatus": "AVAILABLE",
      "VolumeType": "CACHED iSCSI",
      "VolumeUsedInBytes": 1090000000000",
    }
  ]
}
DescribeChapCredentials

Returns an array of Challenge-Handshake Authentication Protocol (CHAP) credentials information for a specified iSCSI target, one for each target-initiator pair.

Request Syntax

```
{
    "TargetARN": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

TargetARN (p. 87)

The Amazon Resource Name (ARN) of the iSCSI volume target. Use the DescribeStorediSCSIVolumes (p. 108) operation to return to retrieve the TargetARN for specified VolumeARN.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 800.

Required: Yes

Response Syntax

```
{
    "ChapCredentials": [   {
        "InitiatorName": "string",
        "SecretToAuthenticateInitiator": "string",
        "SecretToAuthenticateTarget": "string",
        "TargetARN": "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.

ChapCredentials (p. 87)

An array of ChapInfo (p. 218) objects that represent CHAP credentials. Each object in the array contains CHAP credential information for one target-initiator pair. If no CHAP credentials are set, an empty array is returned. CHAP credential information is provided in a JSON object with the following fields:
• **InitiatorName**: The iSCSI initiator that connects to the target.
• **SecretToAuthenticateInitiator**: The secret key that the initiator (for example, the Windows client) must provide to participate in mutual CHAP with the target.
• **SecretToAuthenticateTarget**: The secret key that the target must provide to participate in mutual CHAP with the initiator (e.g., Windows client).
• **TargetARN**: The Amazon Resource Name (ARN) of the storage volume.

Type: Array of ChapInfo (p. 218) objects

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 257).

**InternalServerException**

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

**InvalidGatewayRequestException**

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

**Example**

**Example Request**

The following example shows a request that returns the CHAP credentials of an iSCSI target.

**Sample Request**

```
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR00OKIRLGOHVAICYUFV4KQNSOS0AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.DescribeChapCredentials
{
}
```

**Sample Response**

```
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR00OKIRLGOHVAICYUFV4KQNSOS0AEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 235
```
See Also

For more information about using this API in one of the language-specific AWS 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
DescribeGatewayInformation

Returns metadata about a gateway such as its name, network interfaces, configured time zone, and the state (whether the gateway is running or not). To specify which gateway to describe, use the Amazon Resource Name (ARN) of the gateway in your request.

Request Syntax

```json
{
    "GatewayARN": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**GatewayARN (p. 90)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```json
{
    "GatewayARN": "string",
    "GatewayId": "string",
    "GatewayName": "string",
    "GatewayNetworkInterfaces": [
        {
            "Ipv4Address": "string",
            "Ipv6Address": "string",
            "MacAddress": "string"
        }
    ],
    "GatewayState": "string",
    "GatewayTimezone": "string",
    "GatewayType": "string",
    "LastSoftwareUpdate": "string",
    "NextUpdateAvailabilityDate": "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.
GatewayARN (p. 90)
The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.
Type: String
Length Constraints: Minimum length of 50. Maximum length of 500.

GatewayId (p. 90)
The unique identifier assigned to your gateway during activation. This ID becomes part of the gateway Amazon Resource Name (ARN), which you use as input for other operations.
Type: String

GatewayName (p. 90)
The name you configured for your gateway.
Type: String

GatewayNetworkInterfaces (p. 90)
A NetworkInterface (p. 226) array that contains descriptions of the gateway network interfaces.
Type: Array of NetworkInterface (p. 226) objects

GatewayState (p. 90)
A value that indicates the operating state of the gateway.
Type: String

GatewayTimezone (p. 90)
A value that indicates the time zone configured for the gateway.
Type: String

GatewayType (p. 90)
The type of the gateway.
Type: String

LastSoftwareUpdate (p. 90)
The date on which the last software update was applied to the gateway. If the gateway has never been updated, this field does not return a value in the response.
Type: String

NextUpdateAvailabilityDate (p. 90)
The date on which an update to the gateway is available. This date is in the time zone of the gateway. If the gateway is not available for an update this field is not returned in the response.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

**InternalServerError**

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

**InvalidGatewayRequestException**

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

Example

Example Request

The following example shows a request for describing a gateway.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR000KIRLGOHVAICUFVV4KQNS05AEMVJF66Q9ASUAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.DescribeGatewayInformation
{
    "GatewayARN": "arn:aws:storagegateway:us-east-2:111122223333:gateway/sgw-12A3456B"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR000KIRLGOHVAICUFVV4KQNS05AEMVJF66Q9ASUAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 227
{
    "GatewayId": "sgw-AABB1122",
    "GatewayNetworkInterfaces": [ {"Ipv4Address": "10.35.69.216"} ],
    "GatewayState": "STATE_RUNNING",
    "Gateway_timezone": "GMT-8:00",
    "LastSoftwareUpdate": "2015-01-02T16:00:00"
}
```
"NextUpdateAvailabilityDate": "2016-01-02T16:00:00"
}

See Also

For more information about using this API in one of the language-specific AWS 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
DescribeMaintenanceStartTime

Returns your gateway's weekly maintenance start time including the day and time of the week. Note that values are in terms of the gateway's time zone.

Request Syntax

```
{
   "GatewayARN": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**GatewayARN (p. 94)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{
   "DayOfWeek": number,
   "GatewayARN": "string",
   "HourOfDay": number,
   "MinuteOfHour": number,
   "Timezone": "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.

**DayOfWeek (p. 94)**

An ordinal number between 0 and 6 that represents the day of the week, where 0 represents Sunday and 6 represents Saturday. The day of week is in the time zone of the gateway.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 6.
**GatewayARN (p. 94)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

**HourOfDay (p. 94)**

The hour component of the maintenance start time represented as \( hh \), where \( hh \) is the hour (0 to 23). The hour of the day is in the time zone of the gateway.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 23.

**MinuteOfHour (p. 94)**

The minute component of the maintenance start time represented as \( mm \), where \( mm \) is the minute (0 to 59). The minute of the hour is in the time zone of the gateway.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 59.

**Timezone (p. 94)**

Type: String


---

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 257).

**InternalServerError**

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

**InvalidGatewayRequestException**

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

---

**Example**

**Example Request**

The following example shows a request that describes a gateway's maintenance window.

**Sample Request**
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7JPLRL0OKIRLGOHVAICUFVV4KQNS05AEMVJF6G09ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.DescribeMaintenanceStartTime
{
  "GatewayARN": "arn:aws:storagegateway:us-east-2:111122223333:gateway/sgw-12A3456B"
}

Sample Response

HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7JPLRL0OKIRLGOHVAICUFVV4KQNS05AEMVJF6G09ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 136
{
  "HourOfDay": 15,
  "MinuteOfHour": 35,
  "DayOfWeek": 2,
  "Timezone": "GMT+7:00"
}

See Also

For more information about using this API in one of the language-specific AWS 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
DescribeNFSFileShares

Gets a description for one or more Network File System (NFS) file shares from a file gateway. This operation is only supported for file gateways.

Request Syntax

```json
{
  "FileShareARNList": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

FileShareARNList (p. 97)

An array containing the Amazon Resource Name (ARN) of each file share to be described.

Type: Array of strings

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

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```json
{
  "NFSFileShareInfoList": [ 
    {
      "ClientList": [ "string" ],
      "DefaultStorageClass": "string",
      "FileShareARN": "string",
      "FileShareId": "string",
      "FileShareStatus": "string",
      "GatewayARN": "string",
      "GuessMIMETypeEnabled": boolean,
      "KMSEncrypted": boolean,
      "KMSKey": "string",
      "LocationARN": "string",
      "NFSFileShareDefaults": {
        "DirectoryMode": "string",
        "FileMode": "string",
        "GroupId": number,
        "OwnerId": number
      },
      "ObjectACL": "string",
      "Path": "string",
      "ReadOnly": boolean,
      "RequesterPays": boolean,
      "Role": "string",
      "Squash": "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.

**NFSFileShareInfoList** (p. 97)

An array containing a description for each requested file share.

Type: Array of **NFSFileShareInfo** (p. 229) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

**InternalServerException**

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

**InvalidGatewayRequestException**

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

Example

Describe a File Share

In the following request, you get the description for a single file share identified by its Amazon Resource Name (ARN).

**Sample Request**

```json
{"FileShareARNList":
  ["arn:aws:storagegateway:us-east-2:204469490176:share/share-XXXXXX"]
}
```

**Sample Response**

```json
{"NfsFileShareInfoList":
  [
  ...
]
}
See Also

For more information about using this API in one of the language-specific AWS 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
DescribeSMBFileShares

Gets a description for one or more Server Message Block (SMB) file shares from a file gateway. This operation is only supported for file gateways.

Request Syntax

```json
{
   "FileShareARNList": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

FileShareARNList (p. 100)

An array containing the Amazon Resource Name (ARN) of each file share to be described.

Type: Array of strings

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

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```json
{
   "SMBFileShareInfoList": [
      {
         "Authentication": "string",
         "DefaultStorageClass": "string",
         "FileShareARN": "string",
         "FileShareId": "string",
         "FileShareStatus": "string",
         "GatewayARN": "string",
         "GuessMIMETypeEnabled": boolean,
         "InvalidUserList": [ "string" ],
         "KMSEncrypted": boolean,
         "KMSKey": "string",
         "LocationARN": "string",
         "ObjectACL": "string",
         "Path": "string",
         "ReadOnly": boolean,
         "RequesterPays": boolean,
         "Role": "string",
         "ValidUserList": [ "string" ]
      }
   ]
}
```

API Version 2013-06-30
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.

**SMBFileShareInfoList (p. 100)**

An array containing a description for each requested file share.

Type: Array of SMBFileShareInfo (p. 233) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

**InternalServerError**

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

**InvalidGatewayRequestException**

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

Example

Describe a SMB File Share

In the following request, you get the description for a single SMB file share identified by its Amazon Resource Name (ARN).

Sample Request

```json
{"FileShareARNList":
 [ "arn:aws:storagegateway:us-east-2:204469490176:share/share-XXXXXX"
 ]
}
```

Sample Response

```json
{"SmbFileShareInfoList":
 [ 
 {"Authentication": "ActiveDirectory",
  "DefaultStorageClass": "S3_STANDARD_IA",
  "FileShareId": "share-XXXXXXXX",
  "FileShareStatus": "AVAILABLE",
 }]
}
```
"GuessMIMEEnabled": "true",
"InvalidUserList": ["user1", "user2"],
"KMSEncrypted": "false",
"LocationARN": "arn:aws:s3:::my-bucket",
"ObjectACL": "bucket-owner-full-control",
"Path": "/my-path-alpha",
"ReadOnly": "false",
"RequesterPays": "false",
"Role": "arn:aws:iam::111122223333:role/my-role",
"ValidUserList": ["user3", "user4"]
"ValidUserList": ["user3", "user4"]
]
}

See Also

For more information about using this API in one of the language-specific AWS 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
DescribeSMBSettings

Gets a description of a Server Message Block (SMB) file share settings from a file gateway. This operation is only supported for file gateways.

Request Syntax

```
{
   "GatewayARN": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**GatewayARN (p. 103)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{
   "DomainName": "string",
   "GatewayARN": "string",
   "SMBGuestPasswordSet": boolean
}
```

Response Elements

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

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

**DomainName (p. 103)**

The name of the domain that the gateway is joined to.

Type: String

Pattern: `^([a-z0-9]+(-[a-z0-9]+)*\.)+[a-z]{2,}$`

**GatewayARN (p. 103)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.
Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

SMBGuestPasswordSet (p. 103)

This value is true if a password for the guest user “smbguest” is set, and otherwise false.

Type: Boolean

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

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
DescribeSnapshotSchedule

Describes the snapshot schedule for the specified gateway volume. The snapshot schedule information includes intervals at which snapshots are automatically initiated on the volume. This operation is only supported in the cached volume and stored volume types.

Request Syntax

```json
{
    "VolumeARN": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**VolumeARN (p. 105)**

The Amazon Resource Name (ARN) of the volume. Use the ListVolumes (p. 158) operation to return a list of gateway volumes.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```json
{
    "Description": "string",
    "RecurrenceInHours": number,
    "StartAt": number,
    "Timezone": "string",
    "VolumeARN": "string"
}
```

Response Elements

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

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

**Description (p. 105)**

Type: String

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

**RecurrenceInHours (p. 105)**

Type: Integer

**StartAt (p. 105)**

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 23.

**Timezone (p. 105)**

Type: String


**VolumeARN (p. 105)**

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

**Errors**

For information about the errors that are common to all actions, see [Common Errors (p. 257)](#).

**InternalServerErrorResponse**

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

**InvalidGatewayRequestException**

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

**Example**

**Example Request**

The following example shows a request that retrieves the snapshot schedule for a volume.

**Sample Request**

```
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLROOKIRLGOHVAICUFVV4KQNS05AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.DescribeSnapshotSchedule

{
}
```
Sample Response

HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLRO00KIRLGOHVAICUFVV4KQNSOSAEVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 211
{
  "StartAt": 6,
  "RecurrenceInHours": 24,
  "Description": "sgw-AABB1122:vol-AABB1122:Schedule",
  "Timezone": "GMT+7:00"
}

See Also

For more information about using this API in one of the language-specific AWS 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
DescribeStorediSCSIVolumes

Returns the description of the gateway volumes specified in the request. The list of gateway volumes in the request must be from one gateway. In the response Amazon Storage Gateway returns volume information sorted by volume ARNs. This operation is only supported in stored volume gateway type.

Request Syntax

```json
{
   "VolumeARNs": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**VolumeARNs (p. 108)**

An array of strings where each string represents the Amazon Resource Name (ARN) of a stored volume. All of the specified stored volumes must from the same gateway. Use ListVolumes (p. 158) to get volume ARNs for a gateway.

Type: Array of strings

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```json
{
   "StorediSCSIVolumes": [ 
      {
         "CreatedDate": number,
         "PreservedExistingData": boolean,
         "SourceSnapshotId": "string",
         "VolumeARN": "string",
         "VolumeDiskId": "string",
         "VolumeId": "string",
         "VolumeiSCSIAttributes": {
            "ChapEnabled": boolean,
            "LunNumber": number,
            "NetworkInterfaceId": "string",
            "NetworkInterfacePort": number,
            "TargetARN": "string"
         },
         "VolumeProgress": number,
         "VolumeSizeInBytes": number,
         "VolumeStatus": "string",
         "VolumeType": "string",
         "VolumeUsedInBytes": number
      }
   ]
}
```

API Version 2013-06-30
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.

**StorediSCSIVolumes** *(p. 108)*

Type: Array of **StorediSCSIVolume** *(p. 238)* objects

Errors

For information about the errors that are common to all actions, see **Common Errors** *(p. 257)*.

**InternalServerError**

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

**InvalidGatewayRequestException**

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

Example

Example Request

The following example shows a request that returns a description of a volume.

**Sample Request**

```
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR0OOKIRLGOHVAICUFVY4KQNS05AEMV66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.DescribeStorediSCSIVolumes
{
}
```

**Sample Response**

```
HTTP/1.1 200 OK
```

API Version 2013-06-30
109
See Also

For more information about using this API in one of the language-specific AWS 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
DescribeTapeArchives

Returns a description of specified virtual tapes in the virtual tape shelf (VTS). This operation is only supported in the tape gateway type.

If a specific TapeARN is not specified, AWS Storage Gateway returns a description of all virtual tapes found in the VTS associated with your account.

Request Syntax

```
{
  "Limit": number,
  "Marker": "string",
  "TapeARNs": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**Limit (p. 111)**

Specifies that the number of virtual tapes described be limited to the specified number.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

**Marker (p. 111)**

An opaque string that indicates the position at which to begin describing virtual tapes.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Required: No

**TapeARNs (p. 111)**

Specifies one or more unique Amazon Resource Names (ARNs) that represent the virtual tapes you want to describe.

Type: Array of strings

Length Constraints: Minimum length of 50. Maximum length of 500.


Required: No
Response Syntax

```json
{
  "Marker": "string",
  "TapeArchives": [
    {
      "CompletionTime": number,
      "KMSKey": "string",
      "RetrievedTo": "string",
      "TapeARN": "string",
      "TapeBarcode": "string",
      "TapeCreatedDate": number,
      "TapeSizeInBytes": number,
      "TapeStatus": "string",
      "TapeUsedInBytes": number
    }
  ]
}
```

Response Elements

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

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

**Marker (p. 112)**

An opaque string that indicates the position at which the virtual tapes that were fetched for description ended. Use this marker in your next request to fetch the next set of virtual tapes in the virtual tape shelf (VTS). If there are no more virtual tapes to describe, this field does not appear in the response.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

**TapeArchives (p. 112)**

An array of virtual tape objects in the virtual tape shelf (VTS). The description includes of the Amazon Resource Name (ARN) of the virtual tapes. The information returned includes the Amazon Resource Names (ARNs) of the tapes, size of the tapes, status of the tapes, progress of the description and tape barcode.

Type: Array of TapeArchive (p. 244) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

**InternalServerError**

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

**InvalidGatewayRequestException**

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.
HTTP Status Code: 400

Example

Retrieve description tapes in VTS

The following example shows a request that retrieves description of two tapes archived to VTS in the AWS region specified in the request. The request identifies the tapes by their ARN value. The trailing string in the ARN is the tape barcode. If you don't provide the tape ARN, tape gateway returns information about all tapes archived to VTS.

Sample Request

```plaintext
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20120425/us-east-2/
storagegateway/aws4_request, SignedHeaders=content-type;host;x-amz-date;x-amz-target,
Signature=9cd5a3584d1d67d57e61f120f35102d6b3649066abdd4bf4bbcf05bd9f2f8fe2
x-amz-date: 20131028T120000Z
x-amz-target: StorageGateway_20130630.DescribeTapeArchives

{"TapeARNs":
```

Sample Response

```plaintext
{"TapeArchives":
[
{"CompletionTime": 1380308527.236,
 "KMSKey": "arn:aws:kms:us-east-1:1111111111:key/b72aaa2a-2222-99tt-12345690qwe",
 "TapeBarcode": "AM08A1AD",
 "TapeSizeInBytes": 107374182400,
 "TapeStatus": "ARCHIVED"},
{"CompletionTime": 1382918022.647,
 "TapeBarcode": "AMZN01A2A4",
 "TapeSizeInBytes": 429496729600,
 "TapeStatus": "ARCHIVED"}
]
```

See Also

For more information about using this API in one of the language-specific AWS 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
DescribeTapeRecoveryPoints

Returns a list of virtual tape recovery points that are available for the specified tape gateway.

A recovery point is a point-in-time view of a virtual tape at which all the data on the virtual tape is consistent. If your gateway crashes, virtual tapes that have recovery points can be recovered to a new gateway. This operation is only supported in the tape gateway type.

**Request Syntax**

```json
{
   "GatewayARN": "string",
   "Limit": number,
   "Marker": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**GatewayARN (p. 115)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

**Limit (p. 115)**

Specifies that the number of virtual tape recovery points that are described be limited to the specified number.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

**Marker (p. 115)**

An opaque string that indicates the position at which to begin describing the virtual tape recovery points.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Required: No

**Response Syntax**

```json
{
}
```
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.

**GatewayARN (p. 115)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

**Marker (p. 115)**

An opaque string that indicates the position at which the virtual tape recovery points that were listed for description ended.

Use this marker in your next request to list the next set of virtual tape recovery points in the list. If there are no more recovery points to describe, this field does not appear in the response.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

**TapeRecoveryPointInfos (p. 115)**

An array of TapeRecoveryPointInfos that are available for the specified gateway.

Type: Array of TapeRecoveryPointInfo (p. 248) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

**InternalServerError**

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

**InvalidGatewayRequestException**

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.
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
DescribeTapes

Returns a description of the specified Amazon Resource Name (ARN) of virtual tapes. If a TapeARN is not specified, returns a description of all virtual tapes associated with the specified gateway. This operation is only supported in the tape gateway type.

Request Syntax

```
{
    "GatewayARN": "string",
    "Limit": number,
    "Marker": "string",
    "TapeARNs": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**GatewayARN (p. 118)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

**Limit (p. 118)**

Specifies that the number of virtual tapes described be limited to the specified number.

*Note*

Amazon Web Services may impose its own limit, if this field is not set.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

**Marker (p. 118)**

A marker value, obtained in a previous call to DescribeTapes. This marker indicates which page of results to retrieve.

If not specified, the first page of results is retrieved.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Required: No
TapeARNs (p. 118)

Specifies one or more unique Amazon Resource Names (ARNs) that represent the virtual tapes you want to describe. If this parameter is not specified, Tape gateway returns a description of all virtual tapes associated with the specified gateway.

Type: Array of strings

Length Constraints: Minimum length of 50. Maximum length of 500.


Required: No

Response Syntax

```
{
  "Marker": "string",
  "Tapes": [
    {
      "KMSKey": "string",
      "Progress": number,
      "TapeARN": "string",
      "TapeBarcode": "string",
      "TapeCreatedDate": number,
      "TapeSizeInBytes": number,
      "TapeStatus": "string",
      "TapeUsedInBytes": number,
      "VTLDevice": "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.

Marker (p. 119)

An opaque string which can be used as part of a subsequent DescribeTapes call to retrieve the next page of results.

If a response does not contain a marker, then there are no more results to be retrieved.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Tapes (p. 119)

An array of virtual tape descriptions.

Type: Array of Tape (p. 242) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).
InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

Example

Get descriptions of specific tapes

In the following request you obtain descriptions of tapes in the tape gateway with ID sgw-12A3456B. The request identifies specific tapes by specifying ARNs for the tapes. In the ARN, the trailing string, for example "TEST04A2A1" is the tape barcode value. The string 999999999999 is your account number.

Sample Request

```json
```

Sample Response

```json
```

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
See Also

- 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
DescribeUploadBuffer

Returns information about the upload buffer of a gateway. This operation is supported for the stored volume, cached volume and tape gateway types.

The response includes disk IDs that are configured as upload buffer space, and it includes the amount of upload buffer space allocated and used.

Request Syntax

```
{
  "GatewayARN": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**GatewayARN (p. 122)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{
  "DiskIds": [ "string" ],
  "GatewayARN": "string",
  "UploadBufferAllocatedInBytes": number,
  "UploadBufferUsedInBytes": number
}
```

Response Elements

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

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

**DiskIds (p. 122)**

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 300.
GatewayARN (p. 122)

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

UploadBufferAllocatedInBytes (p. 122)

Type: Long

UploadBufferUsedInBytes (p. 122)

Type: Long

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

Example

Example Request

The following example shows a request to obtain a description of a gateway's working storage.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20120425/us-east-2/
storagegateway/aws4_request, SignedHeaders=content-type;host;x-amz-date;x-amz-target,
Signature=9cd5a3584dd1dd757e61f120f3510266349066abdd4bf4bcf05bd9f8fe2
x-amz-date: 20120912T120000Z
x-amz-target: StorageGateway_20120630.DescribeUploadBuffer

{
    "GatewayARN":"arn:aws:storagegateway:us-east-2:111122223333:gateway/sgw-12A3456B"
}
```
Sample Response

HTTP/1.1 200 OK
x-amzn-RequestId: gur28r2rlgb8vvs0mq17hlglj1q8glle1qeu3kpfg6fokstauu0
Date: Wed, 12 Sep 2012 12:00:02 GMT
Content-Type: application/x-amz-json-1.1
Content-length: 271

{
  "DiskIds": [
    "pci-0000:03:00.0-scsi-0:0:0:0",
    "pci-0000:04:00.0-scsi-0:1:0:0"
  ],
  "UploadBufferAllocatedInBytes": 161061273600,
  "UploadBufferUsedInBytes": 0
}

See Also

For more information about using this API in one of the language-specific AWS 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
DescribeVTLDevices

Returns a description of virtual tape library (VTL) devices for the specified tape gateway. In the response, AWS Storage Gateway returns VTL device information.

This operation is only supported in the tape gateway type.

Request Syntax

```json
{
  "GatewayARN": "string",
  "Limit": number,
  "Marker": "string",
  "VTLDeviceARNs": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**GatewayARN (p. 125)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

**Limit (p. 125)**

Specifies that the number of VTL devices described be limited to the specified number.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

**Marker (p. 125)**

An opaque string that indicates the position at which to begin describing the VTL devices.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Required: No

**VTLDeviceARNs (p. 125)**

An array of strings, where each string represents the Amazon Resource Name (ARN) of a VTL device.
Note
All of the specified VTL devices must be from the same gateway. If no VTL devices are specified, the result will contain all devices on the specified gateway.

Type: Array of strings
Length Constraints: Minimum length of 50. Maximum length of 500.
Required: No

Response Syntax

{  "GatewayARN": "string",  "Marker": "string",  "VTLDevices": [    {      "DeviceSCSIAttributes": {        "ChapEnabled": boolean,        "NetworkInterfaceId": "string",        "NetworkInterfacePort": number,        "TargetARN": "string"      },      "VTLDeviceARN": "string",      "VTLDeviceProductIdentifier": "string",      "VTLDeviceType": "string",      "VTLDeviceVendor": "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.

GatewayARN (p. 126)
The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String
Length Constraints: Minimum length of 50. Maximum length of 500.

Marker (p. 126)
An opaque string that indicates the position at which the VTL devices that were fetched for description ended. Use the marker in your next request to fetch the next set of VTL devices in the list. If there are no more VTL devices to describe, this field does not appear in the response.

Type: String
Length Constraints: Minimum length of 1. Maximum length of 1000.

VTLDevices (p. 126)
An array of VTL device objects composed of the Amazon Resource Name(ARN) of the VTL devices.

Type: Array of VTLDevice (p. 254) objects
AWS Storage Gateway Service API Reference
Errors

Errors
For information about the errors that are common to all actions, see Common Errors (p. 257).
InternalServerError
An internal server error has occurred during the request. For more information, see the error and
message ﬁelds.
HTTP Status Code: 400
InvalidGatewayRequestException
An exception occurred because an invalid gateway request was issued to the service. For more
information, see the error and message ﬁelds.
HTTP Status Code: 400

Example
Get descriptions of the VTL devices on a gateway
The following example gets descriptions of all the VTL devices on a gateway with ID sgw-12A3456B.
The request identiﬁes the gateway by ARN. In the request, string 999999999999 is the account number
associated with the AWS account sending the request. Note that the response shown is truncated, it
shows the media changer and only two tape drives. The trailing string in each device ARN is the device
ID.

Sample Request
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
x-amz-Date: 20131025T120000Z
Authorization: CSOC7TJPLR0OOKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9EXAMPLE
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.DescribeVTLDevices

Sample Response
"VTLDevices":
[
{"DeviceiSCSIAttributes":
{"ChapEnabled": false,
"NetworkInterfaceId": "*",
"NetworkInterfacePort": 3260,
target/iqn.1997-05.com.amazon:sgw-1fad4876-mediachanger"},
device/AMZN_SGW-1FAD4876_MEDIACHANGER_00001",
"VTLDeviceProductIdentifier": "L700",
"VTLDeviceType": "Medium Changer",
"VTLDeviceVendor": "STK"},

API Version 2013-06-30
127


See Also

For more information about using this API in one of the language-specific AWS 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
DescribeWorkingStorage

Returns information about the working storage of a gateway. This operation is only supported in the stored volumes gateway type. This operation is deprecated in cached volumes API version (20120630). Use DescribeUploadBuffer instead.

**Note**
Working storage is also referred to as upload buffer. You can also use the DescribeUploadBuffer operation to add upload buffer to a stored volume gateway.

The response includes disk IDs that are configured as working storage, and it includes the amount of working storage allocated and used.

**Request Syntax**

```json
{
   "GatewayARN": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**GatewayARN (p. 129)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

**Response Syntax**

```json
{
   "DiskIds": [ "string" ],
   "GatewayARN": "string",
   "WorkingStorageAllocatedInBytes": number,
   "WorkingStorageUsedInBytes": number
}
```

**Response Elements**

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

The following data is returned in JSON format by the service.
**DiskIds (p. 129)**

An array of the gateway's local disk IDs that are configured as working storage. Each local disk ID is specified as a string (minimum length of 1 and maximum length of 300). If no local disks are configured as working storage, then the DiskIds array is empty.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 300.

**GatewayARN (p. 129)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

**WorkingStorageAllocatedInBytes (p. 129)**

The total working storage in bytes allocated for the gateway. If no working storage is configured for the gateway, this field returns 0.

Type: Long

**WorkingStorageUsedInBytes (p. 129)**

The total working storage in bytes in use by the gateway. If no working storage is configured for the gateway, this field returns 0.

Type: Long

---

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 257).

**InternalServerError**

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

**InvalidGatewayRequestException**

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

---

**Example**

**Example Request**

The following example shows a request to obtain a description of a gateway's working storage.

**Sample Request**
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR0OKIRLG0HVAICUFV4KQNSO5AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.DescribeWorkingStorage
{
  "GatewayARN": "arn:aws:storagegateway:us-east-2:111122223333:gateway/sgw-12A3456B"
}

Sample Response

HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR0OKIRLG0HVAICUFV4KQNSO5AEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 241
{
  "DiskIds": ["pci-0000:03:00.0-scsi-0:0:0:0", "pci-0000:03:00.0-scsi-0:0:1:0"],
  "WorkingStorageAllocatedInBytes": 2199023255552,
  "WorkingStorageUsedInBytes": 789207040
}

See Also

For more information about using this API in one of the language-specific AWS 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
DisableGateway

Disables a tape gateway when the gateway is no longer functioning. For example, if your gateway VM is damaged, you can disable the gateway so you can recover virtual tapes.

Use this operation for a tape gateway that is not reachable or not functioning. This operation is only supported in the tape gateway type.

Important
Once a gateway is disabled it cannot be enabled.

Request Syntax

```
{
   "GatewayARN": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**GatewayARN (p. 132)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{
   "GatewayARN": "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.

**GatewayARN (p. 132)**

The unique Amazon Resource Name (ARN) of the disabled gateway.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

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
JoinDomain

Adds a file gateway to an Active Directory domain. This operation is only supported for file gateways that support the SMB file protocol.

Request Syntax

```json
{
    "DomainName": "string",
    "GatewayARN": "string",
    "Password": "string",
    "UserName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**DomainName (p. 134)**

The name of the domain that you want the gateway to join.

Type: String

Pattern:  `^[\w\-\.]\+([-\w\-\.]\+\.)\+[\w\-]\{2,\}$`

Required: Yes

**GatewayARN (p. 134)**

The unique Amazon Resource Name (ARN) of the file gateway you want to add to the Active Directory domain.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

**Password (p. 134)**

Sets the password of the user who has permission to add the gateway to the Active Directory domain.

Type: String

Pattern: `^[\w\-\d]+$`

Required: Yes

**UserName (p. 134)**

Sets the user name of user who has permission to add the gateway to the Active Directory domain.

Type: String

Pattern: `^[\w\-\d\-\ ]*$`

API Version 2013-06-30
Required: Yes

Response Syntax

```
{
    "GatewayARN": "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.

**GatewayARN (p. 135)**

The unique Amazon Resource Name (ARN) of the gateway that joined the domain.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

**InternalServerError**

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

**InvalidGatewayRequestException**

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

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

API Version 2013-06-30

135
• AWS SDK for Ruby V2
ListFileShares

Gets a list of the file shares for a specific file gateway, or the list of file shares that belong to the calling user account. This operation is only supported for file gateways.

Request Syntax

```json
{
   "GatewayARN": "string",
   "Limit": number,
   "Marker": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**GatewayARN (p. 137)**

The Amazon resource Name (ARN) of the gateway whose file shares you want to list. If this field is not present, all file shares under your account are listed.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: No

**Limit (p. 137)**

The maximum number of file shares to return in the response. The value must be an integer with a value greater than zero. Optional.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

**Marker (p. 137)**

Opaque pagination token returned from a previous ListFileShares operation. If present, Marker specifies where to continue the list from after a previous call to ListFileShares. Optional.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Required: No

Response Syntax

```json
{
   
```
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.

**FileShareInfoList (p. 137)**

An array of information about the file gateway's file shares.

Type: Array of FileShareInfo (p. 222) objects

**Marker (p. 137)**

If the request includes Marker, the response returns that value in this field.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

**NextMarker (p. 137)**

If a value is present, there are more file shares to return. In a subsequent request, use NextMarker as the value for Marker to retrieve the next set of file shares.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 257).

**InternalServerException**

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

**InvalidGatewayRequestException**

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400
Example

Get a List of File Shares Exposed by a File Gateway

In the following request, you get information about the first file share exposed by a file gateway; the Limit field restricts the number of file share descriptions returned. To get the remaining file share descriptions, use the NextMarker field value in the response JSON as the value for Marker in subsequent calls to ListFileShares.

Sample Request

```
"Limit": 1}
```

Sample Response

```
{"FileShareInfos":
 [
  "FileShareId": "share-XXXXXXXX",
  "FileShareStatus": "AVAILABLE",
  "NextMarker": "c2hhcmUtMUU0MjIwNzU="}
```

See Also

For more information about using this API in one of the language-specific AWS 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
ListGateways

Lists gateways owned by an AWS account in a region specified in the request. The returned list is ordered by gateway Amazon Resource Name (ARN).

By default, the operation returns a maximum of 100 gateways. This operation supports pagination that allows you to optionally reduce the number of gateways returned in a response.

If you have more gateways than are returned in a response (that is, the response returns only a truncated list of your gateways), the response contains a marker that you can specify in your next request to fetch the next page of gateways.

**Request Syntax**

```json
{
   "Limit": number,
   "Marker": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

- **Limit (p. 140)**
  - Specifies that the list of gateways returned be limited to the specified number of items.
  - Type: Integer
  - Valid Range: Minimum value of 1.
  - Required: No

- **Marker (p. 140)**
  - An opaque string that indicates the position at which to begin the returned list of gateways.
  - Type: String
  - Required: No

**Response Syntax**

```json
{
   "Gateways": [
      {
         "GatewayARN": "string",
         "GatewayId": "string",
         "GatewayName": "string",
         "GatewayOperationalState": "string",
         "GatewayType": "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.

**Gateways (p. 140)**

Type: Array of GatewayInfo (p. 224) objects

**Marker (p. 140)**

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

**InternalServerError**

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

**InvalidGatewayRequestException**

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

Example

**List Gateways**

The following example does not specify any criteria for the returned list. Note that the request body is "{}". The response returns gateways (or up to the first 100) in the specified region owned by the AWS account.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR0OK1RLGOHVADCUFVY4KQNS05AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.ListGateways
```
Sample Response

HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR00KIRLGOHVAICUFVV4KQNS05ARMVJF6QG9ASUAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 178
{
    "GatewayList": [
        {
            "GatewayARN": "arn:aws:storagegateway:us-east-2:111122223333:gateway/sgw-23A4567C"
        }
    ]
}

See Also

For more information about using this API in one of the language-specific AWS 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
ListLocalDisks

Returns a list of the gateway's local disks. To specify which gateway to describe, you use the Amazon Resource Name (ARN) of the gateway in the body of the request.

The request returns a list of all disks, specifying which are configured as working storage, cache storage, or stored volume or not configured at all. The response includes a DiskStatus field. This field can have a value of present (the disk is available to use), missing (the disk is no longer connected to the gateway), or mismatch (the disk node is occupied by a disk that has incorrect metadata or the disk content is corrupted).

Request Syntax

```
{
  "GatewayARN": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**GatewayARN (p. 143)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{
  "Disks": [
    {
      "DiskAllocationResource": "string",
      "DiskAllocationType": "string",
      "DiskId": "string",
      "DiskNode": "string",
      "DiskPath": "string",
      "DiskSizeInBytes": number,
      "DiskStatus": "string"
    }
  ],
  "GatewayARN": "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.

**Disks (p. 143)**

Type: Array of Disk (p. 221) objects

**GatewayARN (p. 143)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 257).

**InternalServerError**

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

**InvalidGatewayRequestException**

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

**Example**

**Example Request**

The following example shows a request that returns information about a gateway's local disks.

**Sample Request**

```plaintext
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNS05AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.ListLocalDisks
{
   "GatewayARN": "arn:aws:storagegateway:us-east-2:111122223333:gateway/sgw-12A3456B"
}
```

**Sample Response**

```
HTTP/1.1 200 OK
```

API Version 2013-06-30

144
See Also

For more information about using this API in one of the language-specific AWS 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

Lists the tags that have been added to the specified resource. This operation is only supported in the cached volume, stored volume and tape gateway type.

Request Syntax

```
{
   "Limit": number,
   "Marker": "string",
   "ResourceARN": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**Limit (p. 146)**

Specifies that the list of tags returned be limited to the specified number of items.

- Type: Integer
- Valid Range: Minimum value of 1.
- Required: No

**Marker (p. 146)**

An opaque string that indicates the position at which to begin returning the list of tags.

- Type: String
- Required: No

**ResourceARN (p. 146)**

The Amazon Resource Name (ARN) of the resource for which you want to list tags.

- Type: String
- Required: Yes

Response Syntax

```
{
   "Marker": "string",
   "ResourceARN": "string",
   "Tags": [
   
   ]
}
```
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.

Marker (p. 146)

An opaque string that indicates the position at which to stop returning the list of tags.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

ResourceARN (p. 146)

The Amazon Resource Name (ARN) of the resource for which you want to list tags.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Tags (p. 146)

An array that contains the tags for the specified resource.

Type: Array of Tag (p. 241) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

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
See Also

- 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
ListTapes

Lists virtual tapes in your virtual tape library (VTL) and your virtual tape shelf (VTS). You specify the tapes to list by specifying one or more tape Amazon Resource Names (ARNs). If you don't specify a tape ARN, the operation lists all virtual tapes in both your VTL and VTS.

This operation supports pagination. By default, the operation returns a maximum of up to 100 tapes. You can optionally specify the Limit parameter in the body to limit the number of tapes in the response. If the number of tapes returned in the response is truncated, the response includes a Marker element that you can use in your subsequent request to retrieve the next set of tapes. This operation is only supported in the tape gateway type.

Request Syntax

```
{
  "Limit": number,
  "Marker": "string",
  "TapeARNs": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**Limit (p. 149)**

An optional number limit for the tapes in the list returned by this call.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

**Marker (p. 149)**

A string that indicates the position at which to begin the returned list of tapes.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Required: No

**TapeARNs (p. 149)**

The Amazon Resource Name (ARN) of each of the tapes you want to list. If you don't specify a tape ARN, the response lists all tapes in both your VTL and VTS.

Type: Array of strings

Length Constraints: Minimum length of 50. Maximum length of 500.

Response Syntax

```json
{
  "Marker": "string",
  "TapeInfos": [
    {
      "GatewayARN": "string",
      "TapeARN": "string",
      "TapeBarcode": "string",
      "TapeSizeInBytes": number,
      "TapeStatus": "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.

**Marker (p. 150)**

A string that indicates the position at which to begin returning the next list of tapes. Use the marker in your next request to continue pagination of tapes. If there are no more tapes to list, this element does not appear in the response body.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

**TapeInfos (p. 150)**

An array of TapeInfo (p. 246) objects, where each object describes an a single tape. If there not tapes in the tape library or VTS, then the TapeInfos is an empty array.

Type: Array of TapeInfo (p. 246) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

**InternalServerError**

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

**InvalidGatewayRequestException**

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400
Example

Example Request

The ListTapes request in the following example does not specify a limit, marker, or TapeArn field in the response body. This example lists the only two tapes in the VTL and VTS. The response returns up to the first 100 tapes.

Sample Request

POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
x-amz-Date: 20160425T120000Z
Authorization: CSOC7TJPLR000KIRLGOHVAICUFV4KQNSO5AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.ListTapes
{
    "TapeARN": "arn:aws:storagegateway:us-east-2:999999999999:tape/TEST38A29D"
}

Sample Response

HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR000KIRLGOHVAICUFV4KQNSO5AEMVJF66Q9ASUAAJG
Date: Mon, 29 Apr 2016 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 346
{
    "Marker": "string",
    "TapeInfos": [
    {
        "TapeBarcode": "TEST38A29D",
        "TapeSizeInBytes": 107374182400,
        "TapeStatus": "AVAILABLE"
    },
    {
        "TapeBarcode": "TEST49B39F",
        "TapeSizeInBytes": 107374182400,
        "TapeStatus": "ARCHIVED"
    }
    ]
}

See Also

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

- AWS Command Line Interface
See Also

- 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
ListVolumeInitiators

Lists iSCSI initiators that are connected to a volume. You can use this operation to determine whether a volume is being used or not. This operation is only supported in the cached volume and stored volume gateway types.

Request Syntax

```
{
   "VolumeARN": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

VolumeARN (p. 153)

  The Amazon Resource Name (ARN) of the volume. Use the ListVolumes (p. 158) operation to return a list of gateway volumes for the gateway.

  Type: String

  Length Constraints: Minimum length of 50. Maximum length of 500.

  Required: Yes

Response Syntax

```
{
   "Initiators": [ "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.

Initiators (p. 153)

  The host names and port numbers of all iSCSI initiators that are connected to the gateway.

  Type: Array of strings


Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).
InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

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
ListVolumeRecoveryPoints

Lists the recovery points for a specified gateway. This operation is only supported in the cached volume gateway type.

Each cache volume has one recovery point. A volume recovery point is a point in time at which all data of the volume is consistent and from which you can create a snapshot or clone a new cached volume from a source volume. To create a snapshot from a volume recovery point use the CreateSnapshotFromVolumeRecoveryPoint (p. 41) operation.

Request Syntax

```
{
   "GatewayARN": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**GatewayARN (p. 155)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{
   "GatewayARN": "string",
   "VolumeRecoveryPointInfos": [
      {
         "VolumeARN": "string",
         "VolumeRecoveryPointTime": "string",
         "VolumeSizeInBytes": number,
         "VolumeUsageInBytes": number
      }
   ]
}
```

Response Elements

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

The following data is returned in JSON format by the service.
GatewayARN (p. 155)

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

VolumeRecoveryPointInfos (p. 155)

Type: Array of VolumeRecoveryPointInfo (p. 253) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

Example

Example Request

The following example sends a ListVolumeRecoveryPoints request to take a snapshot of the specified example volume.

Sample Request

```plaintext
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20120425/us-east-2/
storagegateway/aws4_request, SignedHeaders=content-type;host;x-amz-date;x-amz-target,
Signature=9cd5a3584d1d67d57e61f120f35102d6b3649066abdd4bf4bcbf05bd9f2f8fe2
x-amz-date: 20120912T120000Z
x-amz-target: StorageGateway_20120630.ListVolumeRecoveryPoints

{
  "GatewayARN": "arn:aws:storagegateway:us-east-2:111122223333:gateway/sgw-12A3456B"
}
```

Sample Response
See Also

For more information about using this API in one of the language-specific AWS 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
ListVolumes

Lists the iSCSI stored volumes of a gateway. Results are sorted by volume ARN. The response includes only the volume ARNs. If you want additional volume information, use the DescribeStorediSCSIVolumes (p. 108) or the DescribeCachediSCSIVolumes (p. 84) API.

The operation supports pagination. By default, the operation returns a maximum of up to 100 volumes. You can optionally specify the Limit field in the body to limit the number of volumes in the response. If the number of volumes returned in the response is truncated, the response includes a Marker field. You can use this Marker value in your subsequent request to retrieve the next set of volumes. This operation is only supported in the cached volume and stored volume gateway types.

Request Syntax

```json
{
   "GatewayARN": "string",
   "Limit": number,
   "Marker": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**GatewayARN (p. 158)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: No

**Limit (p. 158)**

Specifies that the list of volumes returned be limited to the specified number of items.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

**Marker (p. 158)**

A string that indicates the position at which to begin the returned list of volumes. Obtain the marker from the response of a previous List iSCSI Volumes request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Required: No
Response Syntax

```json
{
  "GatewayARN": "string",
  "Marker": "string",
  "VolumeInfos": [
    {
      "GatewayARN": "string",
      "GatewayId": "string",
      "VolumeARN": "string",
      "VolumeId": "string",
      "VolumeSizeInBytes": number,
      "VolumeType": "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.

GatewayARN (p. 159)

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Marker (p. 159)

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

VolumeInfos (p. 159)

Type: Array of VolumeInfo (p. 249) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400
Example

Example Request

The ListVolumes request in this example does not specify a limit or marker field in the response body. If the number of volumes in the gateway is greater than 100, the response returns first 100.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJFR00KRLG0HVAICUFVV4KQNS05AEMVJF66Q9ASUAJJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.ListVolumes
{
    "GatewayARN": "arn:aws:storagegateway:us-east-2:111122223333:gateway/sgw-12A3456B"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJFR00KRLG0HVAICUFVV4KQNS05AEMVJF66Q9ASUAJJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 346
{
    "VolumeInfos": [
        {
            "GatewayId": "sgw-12A3456B",
            "VolumeId": "vol-1122AABB",
            "VolumeSizeInBytes": "107374182400",
            "VolumeType": "STORED"
        },
        {
            "GatewayId": "sgw-gw-13B4567C",
            "VolumeId": "vol-1122AABB",
            "VolumeSizeInBytes": "107374182400",
            "VolumeType": "STORED"
        }
    ]
}
```

See Also

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

- 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
NotifyWhenUploaded

Sends you notification through CloudWatch Events when all files written to your NFS file share have been uploaded to Amazon S3.

AWS Storage Gateway can send a notification through Amazon CloudWatch Events when all files written to your file share up to that point in time have been uploaded to Amazon S3. These files include files written to the NFS file share up to the time that you make a request for notification. When the upload is done, Storage Gateway sends you notification through an Amazon CloudWatch Event. You can configure CloudWatch Events to send the notification through event targets such as Amazon SNS or AWS Lambda function. This operation is only supported for file gateways.

For more information, see Getting File Upload Notification in the Storage Gateway User Guide.

Request Syntax

```json
{
    "FileShareARN": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**FileShareARN (p. 162)**

The Amazon Resource Name (ARN) of the file share.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```json
{
    "FileShareARN": "string",
    "NotificationId": "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.

**FileShareARN (p. 162)**

The Amazon Resource Name (ARN) of the file share.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

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
RefreshCache

Refreshes the cache for the specified file share. This operation finds objects in the Amazon S3 bucket that were added, removed or replaced since the gateway last listed the bucket's contents and cached the results. This operation is only supported in the file gateway type.

Request Syntax

```
{
    "FileShareARN": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

FileShareARN (p. 164)

The Amazon Resource Name (ARN) of the file share.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{
    "FileShareARN": "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.

FileShareARN (p. 164)

The Amazon Resource Name (ARN) of the file share.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).
InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

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

Removes one or more tags from the specified resource. This operation is only supported in the cached volume, stored volume and tape gateway types.

Request Syntax

```json
{
  "ResourceARN": "string",
  "TagKeys": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**ResourceARN (p. 166)**

The Amazon Resource Name (ARN) of the resource you want to remove the tags from.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

**TagKeys (p. 166)**

The keys of the tags you want to remove from the specified resource. A tag is composed of a key/value pair.

Type: Array of strings


Pattern: ^([\p{L}\p{Z}\p{N}_.:/=+-@]*)$

Required: Yes

Response Syntax

```json
{
  "ResourceARN": "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.
ResourceARN (p. 166)

The Amazon Resource Name (ARN) of the resource that the tags were removed from.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

InternalServerException

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

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
ResetCache

Resets all cache disks that have encountered an error and makes the disks available for reconfiguration as cache storage. If your cache disk encounters an error, the gateway prevents read and write operations on virtual tapes in the gateway. For example, an error can occur when a disk is corrupted or removed from the gateway. When a cache is reset, the gateway loses its cache storage. At this point you can reconfigure the disks as cache disks. This operation is only supported in the cached volume and tape types.

Important
If the cache disk you are resetting contains data that has not been uploaded to Amazon S3 yet, that data can be lost. After you reset cache disks, there will be no configured cache disks left in the gateway, so you must configure at least one new cache disk for your gateway to function properly.

Request Syntax

```json
{
    "GatewayARN": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**GatewayARN (p. 168)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```json
{
    "GatewayARN": "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.

**GatewayARN (p. 168)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.
Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

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
RetrieveTapeArchive

Retrieves an archived virtual tape from the virtual tape shelf (VTS) to a tape gateway. Virtual tapes archived in the VTS are not associated with any gateway. However after a tape is retrieved, it is associated with a gateway, even though it is also listed in the VTS, that is, archive. This operation is only supported in the tape gateway type.

Once a tape is successfully retrieved to a gateway, it cannot be retrieved again to another gateway. You must archive the tape again before you can retrieve it to another gateway. This operation is only supported in the tape gateway type.

Request Syntax

```json
{
    "GatewayARN": "string",
    "TapeARN": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

GatewayARN (p. 170)

The Amazon Resource Name (ARN) of the gateway you want to retrieve the virtual tape to. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

You retrieve archived virtual tapes to only one gateway and the gateway must be a tape gateway.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

TapeARN (p. 170)

The Amazon Resource Name (ARN) of the virtual tape you want to retrieve from the virtual tape shelf (VTS).

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.


Required: Yes

Response Syntax

```json
{
    "TapeARN": "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.

TapeARN (p. 170)

The Amazon Resource Name (ARN) of the retrieved virtual tape.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.


Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

Example

Retrieve a Tape

The following example request retrieves an archived tape from VTS to a gateway with the ID sgw-12A3456B. In the request, the tape is identified by its ARN. In the ARN the trailing string is the tape barcode. The string 999999999999 is your AWS account number. It takes about 24 hours for retrieval to complete. After the operation is complete, the tape appears in the specified gateway's virtual tape library (VTL).

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLROOKIRLGOHVAICUFVV4KQNSO5AEMVJF6Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20130630.RetrieveTapeArchive
```
See Also

For more information about using this API in one of the language-specific AWS 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
RetrieveTapeRecoveryPoint

Retrieves the recovery point for the specified virtual tape. This operation is only supported in the tape gateway type.

A recovery point is a point in time view of a virtual tape at which all the data on the tape is consistent. If your gateway crashes, virtual tapes that have recovery points can be recovered to a new gateway.

Note
The virtual tape can be retrieved to only one gateway. The retrieved tape is read-only. The virtual tape can be retrieved to only a tape gateway. There is no charge for retrieving recovery points.

Request Syntax

```json
{
  "GatewayARN": "string",
  "TapeARN": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**GatewayARN (p. 173)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

**TapeARN (p. 173)**

The Amazon Resource Name (ARN) of the virtual tape for which you want to retrieve the recovery point.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.


Required: Yes

Response Syntax

```json
{
  "TapeARN": "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.

TapeARN (p. 173)

The Amazon Resource Name (ARN) of the virtual tape for which the recovery point was retrieved.

Type: String
Length Constraints: Minimum length of 50. Maximum length of 500.


Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

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
SetLocalConsolePassword

Sets the password for your VM local console. When you log in to the local console for the first time, you log in to the VM with the default credentials. We recommend that you set a new password. You don’t need to know the default password to set a new password.

Request Syntax

```
{
    "GatewayARN": "string",
    "LocalConsolePassword": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**GatewayARN (p. 175)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

**LocalConsolePassword (p. 175)**

The password you want to set for your VM local console.

Type: String


Pattern: ^[ -~]+$

Required: Yes

Response Syntax

```
{
    "GatewayARN": "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.
GatewayARN (p. 175)

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

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
SetSMBGuestPassword

Sets the password for the guest user smbguest. The smbguest user is the user when the authentication method for the file share is set to GuestAccess.

Request Syntax

```
{
    "GatewayARN": "string",
    "Password": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**GatewayARN (p. 177)**

The Amazon Resource Name (ARN) of the file gateway the SMB file share is associated with.

- Type: String
- Required: Yes

**Password (p. 177)**

The password that you want to set for your SMB Server.

- Type: String
- Pattern: `^[ -~]+$`
- Required: Yes

Response Syntax

```
{
    "GatewayARN": "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.

**GatewayARN (p. 177)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

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
ShutDownGateway

Shuts down a gateway. To specify which gateway to shut down, use the Amazon Resource Name (ARN) of the gateway in the body of your request.

The operation shuts down the gateway service component running in the gateway's virtual machine (VM) and not the host VM.

**Note**
If you want to shut down the VM, it is recommended that you first shut down the gateway component in the VM to avoid unpredictable conditions.

After the gateway is shutdown, you cannot call any other API except StartGateway (p. 182), DescribeGatewayInformation (p. 90), and ListGateways (p. 140). For more information, see ActivateGateway (p. 4). Your applications cannot read from or write to the gateway's storage volumes, and there are no snapshots taken.

**Note**
When you make a shutdown request, you will get a **200 OK** success response immediately. However, it might take some time for the gateway to shut down. You can call the DescribeGatewayInformation (p. 90) API to check the status. For more information, see ActivateGateway (p. 4).

If do not intend to use the gateway again, you must delete the gateway (using DeleteGateway (p. 64)) to no longer pay software charges associated with the gateway.

**Request Syntax**

```
{
   "GatewayARN": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**GatewayARN (p. 179)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

**Response Syntax**

```
{
   "GatewayARN": "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.

**GatewayARN (p. 179)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

**InternalServerError**

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

**InvalidGatewayRequestException**

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

Example

Example Request

The following example shows a request that shuts down a gateway.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLROOKIRLGOHVAICUFV4KQNS0SAEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.ShutdownGateway
{
  "GatewayARN": "arn:aws:storagegateway:us-east-2:111122223333:gateway/sgw-12A3456B"
}
```

Sample Response

API Version 2013-06-30
See Also

For more information about using this API in one of the language-specific AWS 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
StartGateway

Starts a gateway that you previously shut down (see ShutdownGateway (p. 179)). After the gateway starts, you can then make other API calls, your applications can read from or write to the gateway’s storage volumes and you will be able to take snapshot backups.

**Note**
When you make a request, you will get a 200 OK success response immediately. However, it might take some time for the gateway to be ready. You should call DescribeGatewayInformation (p. 90) and check the status before making any additional API calls. For more information, see ActivateGateway (p. 4).

To specify which gateway to start, use the Amazon Resource Name (ARN) of the gateway in your request.

**Request Syntax**

```json
{
   "GatewayARN": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**GatewayARN (p. 182)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

**Response Syntax**

```json
{
   "GatewayARN": "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.

**GatewayARN (p. 182)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String
Length Constraints: Minimum length of 50. Maximum length of 500.

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 257).

**InternalServerException**

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

**InvalidGatewayRequestException**

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

**Example**

**Example Request**

The following example shows a request that starts a gateway.

**Sample Request**

```
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR000KI1RLGOHVA1CUFVV4KQNS05AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.StartGateway
{
    "GatewayARN": "arn:aws:storagegateway:us-east-2:111122223333:gateway/sgw-12A3456B"
}
```

**Sample Response**

```
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR000KI1RLGOHVA1CUFVV4KQNS05AEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 80
{
    "GatewayARN": "arn:aws:storagegateway:us-east-2:111122223333:gateway/sgw-12A3456B"
}
```

**See Also**

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

- 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
Updates the bandwidth rate limits of a gateway. You can update both the upload and download bandwidth rate limit or specify only one of the two. If you don’t set a bandwidth rate limit, the existing rate limit remains.

By default, a gateway's bandwidth rate limits are not set. If you don't set any limit, the gateway does not have any limitations on its bandwidth usage and could potentially use the maximum available bandwidth.

To specify which gateway to update, use the Amazon Resource Name (ARN) of the gateway in your request.

**Request Syntax**

```json
{
  "AverageDownloadRateLimitInBitsPerSec": number,
  "AverageUploadRateLimitInBitsPerSec": number,
  "GatewayARN": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**AverageDownloadRateLimitInBitsPerSec (p. 185)**

The average download bandwidth rate limit in bits per second.

Type: Long

Valid Range: Minimum value of 102400.

Required: No

**AverageUploadRateLimitInBitsPerSec (p. 185)**

The average upload bandwidth rate limit in bits per second.

Type: Long

Valid Range: Minimum value of 51200.

Required: No

**GatewayARN (p. 185)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes
Response Syntax

```json
{
   "GatewayARN": "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.

**GatewayARN (p. 186)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

**InternalServerException**

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

**InvalidGatewayRequestException**

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

Example

Example Request

The following example shows a request that returns the bandwidth throttle properties of a gateway.

**Sample Request**

```text
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR000KIRLGOHVAIUCUFV4KQNS05AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.UpdateBandwidthRateLimit
{
```

API Version 2013-06-30
"AverageUploadRateLimitInBitsPerSec": 51200,
"AverageDownloadRateLimitInBitsPerSec": 102400
}

Sample Response

HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR00CKIRLGOHVAICUFVV4KQNS05ARMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 80
{
  "GatewayARN": "arn:aws:storagegateway:us-east-2:111122223333:gateway/sgw-12A3456B"
}

See Also

For more information about using this API in one of the language-specific AWS 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
AWS Storage Gateway Service API Reference
UpdateChapCredentials

UpdateChapCredentials

Updates the Challenge-Handshake Authentication Protocol (CHAP) credentials for a specified iSCSI target. By default, a gateway does not have CHAP enabled; however, for added security, you might use it.

**Important**
When you update CHAP credentials, all existing connections on the target are closed and initiators must reconnect with the new credentials.

**Request Syntax**

```
{
    "InitiatorName": "string",
    "SecretToAuthenticateInitiator": "string",
    "SecretToAuthenticateTarget": "string",
    "TargetARN": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**InitiatorName (p. 188)**

The iSCSI initiator that connects to the target.

- Type: String
- Pattern: `[0-9a-z:.-]+`
- Required: Yes

**SecretToAuthenticateInitiator (p. 188)**

The secret key that the initiator (for example, the Windows client) must provide to participate in mutual CHAP with the target.

- Note
  - The secret key must be between 12 and 16 bytes when encoded in UTF-8.

- Type: String
- Required: Yes

**SecretToAuthenticateTarget (p. 188)**

The secret key that the target must provide to participate in mutual CHAP with the initiator (e.g. Windows client).


- Note
  - The secret key must be between 12 and 16 bytes when encoded in UTF-8.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 100.
Required: No

**TargetARN (p. 188)**

The Amazon Resource Name (ARN) of the iSCSI volume target. Use the DescribeStorediSCSIVolumes (p. 108) operation to return the TargetARN for specified VolumeARN.

Type: String
Length Constraints: Minimum length of 50. Maximum length of 800.
Required: Yes

---

**Response Syntax**

```
{
  "InitiatorName": "string",
  "TargetARN": "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.

**InitiatorName (p. 189)**

The iSCSI initiator that connects to the target. This is the same initiator name specified in the request.

Type: String
Length Constraints: Minimum length of 1. Maximum length of 255.
Pattern: [0-9a-zA-Z:.-]+

**TargetARN (p. 189)**

The Amazon Resource Name (ARN) of the target. This is the same target specified in the request.

Type: String
Length Constraints: Minimum length of 50. Maximum length of 800.

---

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 257).

**InternalServerError**

An internal server error has occurred during the request. For more information, see the error and message fields.
HTTP Status Code: 400

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

Example

Example Request

The following example shows a request that updates CHAP credentials for an iSCSI target.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR000KIRLG0HVA1CUFV4KQNS05AEVJF66G9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.UpdateChapCredentials
{
    "SecretToAuthenticateInitiator": "111111111111",
    "InitiatorName": "iqn.1991-05.com.microsoft:computername.domain.example.com",
    "SecretToAuthenticateTarget": "222222222222"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR000KIRLG0HVA1CUFV4KQNS05AEVJF66G9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 161
{
    "InitiatorName": "iqn.1991-05.com.microsoft:computername.domain.example.com"
}
```

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
See Also

- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
UpdateGatewayInformation

Updates a gateway's metadata, which includes the gateway's name and time zone. To specify which gateway to update, use the Amazon Resource Name (ARN) of the gateway in your request.

**Note**
For Gateways activated after September 2, 2015, the gateway's ARN contains the gateway ID rather than the gateway name. However, changing the name of the gateway has no effect on the gateway's ARN.

**Request Syntax**

```
{
  "GatewayARN": "string",
  "GatewayName": "string",
  "GatewayTimezone": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**GatewayARN (p. 192)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

**GatewayName (p. 192)**

The name you configured for your gateway.

Type: String


Pattern: `^[ -\.0-\[\]--]*[!-\0-\[\]--][ -\.0-\[\]--]*$`

Required: No

**GatewayTimezone (p. 192)**

Type: String


Required: No

**Response Syntax**

```
{
}
```
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.

**GatewayARN (p. 192)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

**GatewayName (p. 192)**

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

**InternalServerError**

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

**InvalidGatewayRequestException**

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

Example

Example Request

The following example shows a request that updates the name of a gateway.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
x-amz-date: 20120425T120000Z
Authorization: CSOC7JPLR000KRLR0VHAICUFV4KQNS05AEV5F66Q9ASAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.GatewayInformation
{
```

API Version 2013-06-30
Sample Response

HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR000KIRLGOHVAICUFVV4KQNSOSABMVJF66Q9ASUAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 81
{
    "GatewayARN": "arn:aws:storagegateway:us-east-2:111122223333:gateway/sgw-12A3456B"
}

See Also

For more information about using this API in one of the language-specific AWS 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
UpdateGatewaySoftwareNow

Updates the gateway virtual machine (VM) software. The request immediately triggers the software update.

**Note**
When you make this request, you get a 200 OK success response immediately. However, it might take some time for the update to complete. You can call DescribeGatewayInformation (p. 90) to verify the gateway is in the STATE_RUNNING state.

**Important**
A software update forces a system restart of your gateway. You can minimize the chance of any disruption to your applications by increasing your iSCSI Initiators’ timeouts. For more information about increasing iSCSI Initiator timeouts for Windows and Linux, see Customizing Your Windows iSCSI Settings and Customizing Your Linux iSCSI Settings, respectively.

**Request Syntax**

```json
{
   "GatewayARN": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**GatewayARN (p. 195)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

**Response Syntax**

```json
{
   "GatewayARN": "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.

**GatewayARN (p. 195)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

**InternalServer>Error**

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

**InvalidGatewayRequestException**

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

Example

Example Request

The following example shows a request that initiates a gateway VM update.

Sample Request

```bash
POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
Authorization: CSOC7TJPLP00OKIRLGOHVAICUFV4KQNSO5AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.UpdateGatewaySoftwareNow
{
  "GatewayARN": "arn:aws:storagegateway:us-east-2:111122223333:gateway/sgw-12A3456B"
}
```

Sample Response

```bash
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLP00OKIRLGOHVAICUFV4KQNSO5AEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 80
{
  "GatewayARN": "arn:aws:storagegateway:us-east-2:111122223333:gateway/sgw-12A3456B"
}
```

See Also

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

- 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
UpdateMaintenanceStartTime

Updates a gateway's weekly maintenance start time information, including day and time of the week. The maintenance time is the time in your gateway's time zone.

Request Syntax

```json
{
  "DayOfWeek": number,
  "GatewayARN": "string",
  "HourOfDay": number,
  "MinuteOfHour": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

DayOfWeek (p. 198)

The maintenance start time day of the week represented as an ordinal number from 0 to 6, where 0 represents Sunday and 6 Saturday.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 6.

Required: Yes

GatewayARN (p. 198)

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

HourOfDay (p. 198)

The hour component of the maintenance start time represented as hh, where hh is the hour (00 to 23). The hour of the day is in the time zone of the gateway.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 23.

Required: Yes

MinuteOfHour (p. 198)

The minute component of the maintenance start time represented as mm, where mm is the minute (00 to 59). The minute of the hour is in the time zone of the gateway.

Type: Integer
Valid Range: Minimum value of 0. Maximum value of 59.

Required: Yes

Response Syntax

```
{
    "GatewayARN": "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.

**GatewayARN (p. 199)**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

**InternalServerError**

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

**InvalidGatewayRequestException**

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

Example

Example Request

The following example shows a request that updates the maintenance start time of gateway with ID sgw-12A3456B.

Sample Request

```
POST / HTTP/1.1
```
Host: storagegateway.us-east-2.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR00OKIRLG0HVIACUFVV4KQNS05AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.UpdateMaintenanceStartTime
{
    "HourOfDay": 0,
    "MinuteOfHour": 30,
    "DayOfWeek": 2
}

Sample Response

HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR00OKIRLG0HVIACUFVV4KQNS05AEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 80
{
    "GatewayARN": "arn:aws:storagegateway:us-east-2:111122223333:gateway/sgw-12A3456B"
}

See Also

For more information about using this API in one of the language-specific AWS 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
UpdateNFSFileShare

Updates a Network File System (NFS) file share. This operation is only supported in the file gateway type.

Note
To leave a file share field unchanged, set the corresponding input field to null.

Updates the following file share setting:

- Default storage class for your S3 bucket
- Metadata defaults for your S3 bucket
- Allowed NFS clients for your file share
- Squash settings
- Write status of your file share

Note
To leave a file share field unchanged, set the corresponding input field to null. This operation is only supported in file gateways.

Request Syntax

```
{
  "ClientList": [ "string" ],
  "DefaultStorageClass": "string",
  "FileShareARN": "string",
  "GuessMIMETypeEnabled": boolean,
  "KMSEncrypted": boolean,
  "KMSKey": "string",
  "NFSFileShareDefaults": {
    "DirectoryMode": "string",
    "FileMode": "string",
    "GroupId": number,
    "OwnerId": number
  },
  "ObjectACL": "string",
  "ReadOnly": boolean,
  "RequesterPays": boolean,
  "Squash": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**ClientList (p. 201)**

The list of clients that are allowed to access the file gateway. The list must contain either valid IP addresses or valid CIDR blocks.

Type: Array of strings

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

Pattern: ^((\[0-9\]|1[0-9]{2}|2[0-4]\[0-9]|25[0-5])\.){3}(\[0-9\]|1[0-9]\[0-9\]|2[0-4]\[0-9]|25[0-5])([\//])((\[0-9\]|1[0-9]{2}|2[0-4]\[0-9]|25[0-5])\.){3}(\[0-9\]|1[0-9]\[0-9\]|2[0-4]\[0-9]|25[0-5])?#$

Required: No

DefaultStorageClass (p. 201)

The default storage class for objects put into an Amazon S3 bucket by the file gateway. Possible values are S3_STANDARD, S3_STANDARD_IA, or S3_ONEZONE_IA. If this field is not populated, the default value S3_STANDARD is used. Optional.

Type: String


Required: No

FileShareARN (p. 201)

The Amazon Resource Name (ARN) of the file share to be updated.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

GuessMIMETypeEnabled (p. 201)

A value that enables guessing of the MIME type for uploaded objects based on file extensions. Set this value to true to enable MIME type guessing, and otherwise to false. The default value is true.

Type: Boolean

Required: No

KMSEncrypted (p. 201)

True to use Amazon S3 server side encryption with your own AWS KMS key, or false to use a key managed by Amazon S3. Optional.

Type: Boolean

Required: No

KMSKey (p. 201)

The Amazon Resource Name (ARN) of the AWS KMS key used for Amazon S3 server side encryption. This value can only be set when KMSEncrypted is true. Optional.

Type: String


Required: No

NFSFileShareDefaults (p. 201)

The default values for the file share. Optional.

Type: NFSFileShareDefaults (p. 227) object

Required: No

ObjectACL (p. 201)

A value that sets the access control list permission for objects in the S3 bucket that a file gateway puts objects into. The default value is "private".

API Version 2013-06-30

202
Type: String

Valid Values: private | public-read | public-read-write | authenticated-read | bucket-owner-read | bucket-owner-full-control | aws-exec-read

Required: No

ReadOnly (p. 201)

A value that sets the write status of a file share. This value is true if the write status is read-only, and otherwise false.

Type: Boolean

Required: No

RequesterPays (p. 201)

A value that sets the access control list permission for objects in the Amazon S3 bucket that a file gateway puts objects into. The default value is private.

Type: Boolean

Required: No

Squash (p. 201)

The user mapped to anonymous user. Valid options are the following:

- RootSquash - Only root is mapped to anonymous user.
- NoSquash - No one is mapped to anonymous user
- AllSquash - Everyone is mapped to anonymous user.

Type: String


Required: No

Response Syntax

```json
{
   "FileShareARN": "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.

FileShareARN (p. 203)

The Amazon Resource Name (ARN) of the updated file share.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

Example

Update a File Share

In the following request, you update the file mode for a file share.

Sample Request

```json
{"ClientToken": "xy23421",
"NfsFileShareDefaults":
{"FileMode": "0777",
 "DirectoryMode": "0777",
 "GroupId": 500,
 "OwnerId": 500},
"GuessMIMETypeEnabled": "true",
"KMSEncrypted": "false",
"Role": "arn:aws:iam::111122223333:role/my-role",
"ObjectACL": "bucket-owner-full-control",
"ReadOnly": "false",
"RequesterPays": "false",
"LocationARN": "arn:aws:s3:::my-bucket-alpha",
"DefaultStorageClass": "S3_STANDARD",
"Squash": "RootSquash"}
```

Sample Response

```json
```

See Also

For more information about using this API in one of the language-specific AWS 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
UpdateSMBFileShare

Updates a Server Message Block (SMB) file share.

**Note**
To leave a file share field unchanged, set the corresponding input field to null. This operation is only supported for file gateways.

**Important**
File gateways require AWS Security Token Service (AWS STS) to be activated to enable you to create a file share. Make sure that AWS STS is activated in the AWS Region you are creating your file gateway in. If AWS STS is not activated in this AWS Region, activate it. For information about how to activate AWS STS, see Activating and Deactivating AWS STS in an AWS Region in the AWS Identity and Access Management User Guide. File gateways don't support creating hard or symbolic links on a file share.

**Request Syntax**

```json
{
    "DefaultStorageClass": "string",
    "FileShareARN": "string",
    "GuessMIMETypeEnabled": boolean,
    "InvalidUserList": [ "string" ],
    "KMSEncrypted": boolean,
    "KMSKey": "string",
    "ObjectACL": "string",
    "ReadOnly": boolean,
    "RequesterPays": boolean,
    "ValidUserList": [ "string" ]
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**DefaultStorageClass (p. 206)**

The default storage class for objects put into an Amazon S3 bucket by the file gateway. Possible values are S3_STANDARD, S3_STANDARD_IA, or S3_ONEZONE_IA. If this field is not populated, the default value S3_STANDARD is used. Optional.

Type: String


Required: No

**FileShareARN (p. 206)**

The Amazon Resource Name (ARN) of the SMB file share that you want to update.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes
**GuessMIMETypeEnabled (p. 206)**

A value that enables guessing of the MIME type for uploaded objects based on file extensions. Set this value to true to enable MIME type guessing, and otherwise to false. The default value is true.

**Type:** Boolean  
**Required:** No

**InvalidUserList (p. 206)**

A list of users or groups in the Active Directory that are not allowed to access the file share. A group must be prefixed with the @ character. For example @group1. Can only be set if Authentication is set to ActiveDirectory.

**Type:** Array of strings  
**Array Members:** Minimum number of 0 items. Maximum number of 100 items.  
**Length Constraints:** Minimum length of 1. Maximum length of 64.  
**Required:** No

**KMSKey (p. 206)**

The Amazon Resource Name (ARN) of the AWS KMS key used for Amazon S3 server side encryption. This value can only be set when KMSEncrypted is true. Optional.

**Type:** String  
**Length Constraints:** Minimum length of 20. Maximum length of 2048.  
**Required:** No

**ObjectACL (p. 206)**

A value that sets the access control list permission for objects in the S3 bucket that a file gateway puts objects into. The default value is "private".

**Type:** String  
**Valid Values:** private | public-read | public-read-write | authenticated-read | bucket-owner-read | bucket-owner-full-control | aws-exec-read  
**Required:** No

**ReadOnly (p. 206)**

A value that sets the write status of a file share. This value is true if the write status is read-only, and otherwise false.

**Type:** Boolean  
**Required:** No
Re requesterPays (p. 206)

A value that sets the access control list permission for objects in the Amazon S3 bucket that a file
gateway puts objects into. The default value is private.

Type: Boolean

Required: No

ValidUserList (p. 206)

A list of users or groups in the Active Directory that are allowed to access the file share. A group
must be prefixed with the @ character. For example @group1. Can only be set if Authentication is
set to ActiveDirectory.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

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

Required: No

Response Syntax

```json
{
    "FileShareARN": "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.

FileShareARN (p. 208)

The Amazon Resource Name (ARN) of the updated SMB file share.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and
message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. For more
information, see the error and message fields.
Example

Update a SMB File Share

In the following request, you update a SMB file share using an existing file gateway and use your own AWS KMS key to perform server-side encryption of the contents of the file share.

Sample Request

```
{
  "DefaultStorageClass": "S3_STANDARD",
  "GuessMIMETypeEnabled": "true",
  "InvalidList": ["user1", "user2"],
  "KMSKey": "arn:aws:kms:us-east-1:11111111:key/b72aa2a-2222-99tt-12345690qwe",
  "ObjectACL": "bucket-owner-full-control",
  "ReadOnly": "false",
  "RequesterPays": "false",
  "ValidList": ["user3", "user4"]
}
```

Sample Response

```
```

See Also

For more information about using this API in one of the language-specific AWS 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

API Version 2013-06-30
UpdateSnapshotSchedule

Updates a snapshot schedule configured for a gateway volume. This operation is only supported in the cached volume and stored volume gateway types.

The default snapshot schedule for volume is once every 24 hours, starting at the creation time of the volume. You can use this API to change the snapshot schedule configured for the volume.

In the request you must identify the gateway volume whose snapshot schedule you want to update, and the schedule information, including when you want the snapshot to begin on a day and the frequency (in hours) of snapshots.

Request Syntax

```json
{
    "Description": "string",
    "RecurrenceInHours": number,
    "StartAt": number,
    "VolumeARN": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**Description (p. 210)**

Optional description of the snapshot that overwrites the existing description.

Type: String

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

Required: No

**RecurrenceInHours (p. 210)**

Frequency of snapshots. Specify the number of hours between snapshots.

Type: Integer


Required: Yes

**StartAt (p. 210)**

The hour of the day at which the snapshot schedule begins represented as hh, where hh is the hour (0 to 23). The hour of the day is in the time zone of the gateway.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 23.

Required: Yes
VolumeARN (p. 210)

The Amazon Resource Name (ARN) of the volume. Use the ListVolumes (p. 158) operation to return a list of gateway volumes.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```json
{
  "VolumeARN": "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.

VolumeARN (p. 211)

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 257).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

HTTP Status Code: 400

Example

Example Request

The following example shows a request that updates a snapshot schedule.
Sample Request

POST / HTTP/1.1
Host: storagegateway.us-east-2.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR0OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.UpdateSnapshotSchedule
{
  "StartAt": 0,
  "RecurrenceInHours": 1,
  "Description": "hourly snapshot"
}

Sample Response

HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR0OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 99
{
}

See Also

For more information about using this API in one of the language-specific AWS 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
UpdateVTLD DeviceType

Updates the type of medium changer in a tape gateway. When you activate a tape gateway, you select a medium changer type for the tape gateway. This operation enables you to select a different type of medium changer after a tape gateway is activated. This operation is only supported in the tape gateway type.

Request Syntax

```json
{
   "DeviceType": "string",
   "VTLDeviceARN": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 255).

The request accepts the following data in JSON format.

**DeviceType (p. 213)**

- The type of medium changer you want to select.
- Valid Values: "STK-L700", "AWS-Gateway-VTL"
- Type: String
- Required: Yes

**VTLDeviceARN (p. 213)**

- The Amazon Resource Name (ARN) of the medium changer you want to select.
- Type: String
- Required: Yes

Response Syntax

```json
{
   "VTLDeviceARN": "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.
**VTLDeviceARN (p. 213)**

The Amazon Resource Name (ARN) of the medium changer you have selected.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 257).

**InternalServerError**

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

**InvalidGatewayRequestException**

An exception occurred because an invalid gateway request was issued to the service. For more information, see the error and message fields.

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 Storage Gateway 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:

- `CachediSCSIVolume` (p. 216)
- `ChapInfo` (p. 218)
- `DeviceiSCSIAttributes` (p. 220)
- `Disk` (p. 221)
- `FileShareInfo` (p. 222)
- `GatewayInfo` (p. 224)
- `NetworkInterface` (p. 226)
- `NFSFileShareDefaults` (p. 227)
- `NFSFileShareInfo` (p. 229)
- `SMBFileShareInfo` (p. 233)
- `StorageGatewayError` (p. 237)
- `StorediSCSIVolume` (p. 238)
- `Tag` (p. 241)
- `Tape` (p. 242)
- `TapeArchive` (p. 244)
- `TapeInfo` (p. 246)
- `TapeRecoveryPointInfo` (p. 248)
- `VolumeInfo` (p. 249)
- `VolumeiSCSIAttributes` (p. 251)
- `VolumeRecoveryPointInfo` (p. 253)
- `VTLDevice` (p. 254)
CachediSCSIVolume

Describes an iSCSI cached volume.

Contents

**CreatedDate**

The date the volume was created. Volumes created prior to March 28, 2017 don't have this time stamp.

Type: Timestamp

Required: No

**KMSKey**

The Amazon Resource Name (ARN) of the AWS KMS key used for Amazon S3 server side encryption. This value can only be set when KMSEncrypted is true. Optional.

Type: String


Required: No

**SourceSnapshotId**

If the cached volume was created from a snapshot, this field contains the snapshot ID used, e.g. snap-78e22663. Otherwise, this field is not included.

Type: String

Pattern: `\Asnap-(\[0-9A-Fa-f]{8}|\[0-9A-Fa-f]{17})\z`

Required: No

**VolumeARN**

The Amazon Resource Name (ARN) of the storage volume.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: No

**VolumeId**

The unique identifier of the volume, e.g. vol-AE4B946D.

Type: String


Required: No

**VolumeiSCSIAttributes**

An **VolumeiSCSIAttributes** (p. 251) object that represents a collection of iSCSI attributes for one stored volume.

Type: **VolumeiSCSIAttributes** (p. 251) object
Required: No

**VolumeProgress**

Represents the percentage complete if the volume is restoring or bootstrapping that represents the percent of data transferred. This field does not appear in the response if the cached volume is not restoring or bootstrapping.

Type: Double

Required: No

**VolumeSizeInBytes**

The size, in bytes, of the volume capacity.

Type: Long

Required: No

**VolumeStatus**

One of the VolumeStatus values that indicates the state of the storage volume.

Type: String


Required: No

**VolumeType**

One of the VolumeType enumeration values that describes the type of the volume.

Type: String


Required: No

**VolumeUsedInBytes**

The size of the data stored on the volume in bytes.

**Note**

This value is not available for volumes created prior to May 13, 2015, until you store data on the volume.

Type: Long

Required: No

**See Also**

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2
ChapInfo

Describes Challenge-Handshake Authentication Protocol (CHAP) information that supports authentication between your gateway and iSCSI initiators.

Contents

InitiatorName

The iSCSI initiator that connects to the target.

Type: String

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

Pattern: [0-9a-z:.-]+

Required: No

SecretToAuthenticateInitiator

The secret key that the initiator (for example, the Windows client) must provide to participate in mutual CHAP with the target.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Required: No

SecretToAuthenticateTarget

The secret key that the target must provide to participate in mutual CHAP with the initiator (e.g. Windows client).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Required: No

TargetARN

The Amazon Resource Name (ARN) of the volume.

Valid Values: 50 to 500 lowercase letters, numbers, periods (.), and hyphens (-).

Type: String

Length Constraints: Minimum length of 50. Maximum length of 800.

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
DeviceiSCSIAttributes

Lists iSCSI information about a VTL device.

Contents

ChapEnabled

Indicates whether mutual CHAP is enabled for the iSCSI target.

Type: Boolean

Required: No

NetworkInterfaceId

The network interface identifier of the VTL device.

Type: String

Pattern: \A(25\[0-5]|2\[0-4]\d|\[0-1]\d?\d?\d)(\.(25\[0-5]|2\[0-4]\d|\[0-1]\d?\d?\d))\(3\)\z

Required: No

NetworkInterfacePort

The port used to communicate with iSCSI VTL device targets.

Type: Integer

Required: No

TargetARN

Specifies the unique Amazon Resource Name (ARN) that encodes the iSCSI qualified name(iqn) of a tape drive or media changer target.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 800.

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
Disk

Contents

DiskAllocationResource
  Type: String
  Required: No

DiskAllocationType
  Type: String
  Required: No

DiskId
  Type: String
  Length Constraints: Minimum length of 1. Maximum length of 300.
  Required: No

DiskNode
  Type: String
  Required: No

DiskPath
  Type: String
  Required: No

DiskSizeInBytes
  Type: Long
  Required: No

DiskStatus
  Type: String
  Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2
FileShareInfo

Describes a file share.

Contents

FileShareARN

The Amazon Resource Name (ARN) of the file share.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: No

FileShareId

The ID of the file share.

Type: String


Required: No

FileShareStatus

The status of the file share. Possible values are CREATING, UPDATING, AVAILABLE and DELETING.

Type: String


Required: No

FileShareType

The type of the file share.

Type: String

Valid Values: NFS | SMB

Required: No

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

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
GatewayInfo

Describes a gateway object.

Contents

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: No

GatewayId

The unique identifier assigned to your gateway during activation. This ID becomes part of the gateway Amazon Resource Name (ARN), which you use as input for other operations.

Type: String


Required: No

GatewayName

The name of the gateway.

Type: String

Required: No

GatewayOperationalState

The state of the gateway.

Valid Values: DISABLED or ACTIVE

Type: String


Required: No

GatewayType

The type of the gateway.

Type: String


Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java
• AWS SDK for Ruby V2
NetworkInterface

Describes a gateway's network interface.

Contents

Ipv4Address

The Internet Protocol version 4 (IPv4) address of the interface.

Type: String

Required: No

Ipv6Address

The Internet Protocol version 6 (IPv6) address of the interface. Currently not supported.

Type: String

Required: No

MacAddress

The Media Access Control (MAC) address of the interface.

Note
This is currently unsupported and will not be returned in output.

Type: String

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2
NFSFileShareDefaults

Describes Network File System (NFS) file share default values. Files and folders stored as Amazon S3 objects in S3 buckets don’t, by default, have Unix file permissions assigned to them. Upon discovery in an S3 bucket by Storage Gateway, the S3 objects that represent files and folders are assigned these default Unix permissions. This operation is only supported for file gateways.

Contents

DirectoryMode

The Unix directory mode in the form "nnnn". For example, "0666" represents the default access mode for all directories inside the file share. The default value is 0777.

Type: String
Pattern: ^[0-7]{4}$
Required: No

FileMode

The Unix file mode in the form "nnnn". For example, "0666" represents the default file mode inside the file share. The default value is 0666.

Type: String
Pattern: ^[0-7]{4}$
Required: No

GroupId

The default group ID for the file share (unless the files have another group ID specified). The default value is nfsnobody.

Type: Long
Valid Range: Minimum value of 0. Maximum value of 4294967294.
Required: No

OwnerId

The default owner ID for files in the file share (unless the files have another owner ID specified). The default value is nfsnobody.

Type: Long
Valid Range: Minimum value of 0. Maximum value of 4294967294.
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
NFSFileShareInfo

The Unix file permissions and ownership information assigned, by default, to native S3 objects when file
gateway discovers them in S3 buckets. This operation is only supported in file gateways.

Contents

ClientList

The list of clients that are allowed to access the file gateway. The list must contain either valid IP
addresses or valid CIDR blocks.

Type: Array of strings

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

Pattern: ^((\[0-9]\|[1-9]\[0-9]\|1[0-9]\|2[0-4]\|25[0-5])\.)\{3\}(0-9)[1-9][0-9]\|1[0-9]\|2[0-4]\|25[0-5])\(\/[0-9]\|[1-2]\[0-9]\|3[0-2])\?$

Required: No

DefaultStorageClass

The default storage class for objects put into an Amazon S3 bucket by the file gateway. Possible
values are S3_STANDARD, S3_STANDARD_IA, or S3_ONEZONE_IA. If this field is not populated, the
default value S3_STANDARD is used. Optional.

Type: String


Required: No

FileShareARN

The Amazon Resource Name (ARN) of the file share.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: No

FileShareId

The ID of the file share.

Type: String


Required: No

FileShareStatus

The status of the file share. Possible values are CREATING, UPDATING, AVAILABLE and DELETING.

Type: String


Required: No
**GatewayARN**

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: No

**GuessMIMETYPEEnabled**

A value that enables guessing of the MIME type for uploaded objects based on file extensions. Set this value to true to enable MIME type guessing, and otherwise to false. The default value is true.

Type: Boolean

Required: No

**KMSKey**

True to use Amazon S3 server side encryption with your own AWS KMS key, or false to use a key managed by Amazon S3. Optional.

Type: Boolean

Required: No

**LocationARN**

The ARN of the backend storage used for storing file data.

Type: String


Required: No

**NFSFileShareDefaults**

Describes Network File System (NFS) file share default values. Files and folders stored as Amazon S3 objects in S3 buckets don't, by default, have Unix file permissions assigned to them. Upon discovery in an S3 bucket by Storage Gateway, the S3 objects that represent files and folders are assigned these default Unix permissions. This operation is only supported for file gateways.

Type: NFSFileShareDefaults (p. 227) object

Required: No

**ObjectACL**

A value that sets the access control list permission for objects in the S3 bucket that a file gateway puts objects into. The default value is "private".
Type: String
Valid Values: private | public-read | public-read-write | authenticated-read | bucket-owner-read | bucket-owner-full-control | aws-exec-read

Required: No

Path
The file share path used by the NFS client to identify the mount point.
Type: String
Required: No

ReadOnly
A value that sets the write status of a file share. This value is true if the write status is read-only, and otherwise false.
Type: Boolean
Required: No

RequesterPays
A value that sets the access control list permission for objects in the Amazon S3 bucket that a file gateway puts objects into. The default value is private.
Type: Boolean
Required: No

Role
The ARN of the IAM role that file gateway assumes when it accesses the underlying storage.
Type: String
Required: No

Squash
The user mapped to anonymous user. Valid options are the following:
- RootSquash - Only root is mapped to anonymous user.
- NoSquash - No one is mapped to anonymous user
- AllSquash - Everyone is mapped to anonymous user.
Type: String
Required: No

See Also
For more information about using this API in one of the language-specific AWS SDKs, see the following:
- AWS SDK for C++
- AWS SDK for Go
• AWS SDK for Java
• AWS SDK for Ruby V2
SMBFileShareInfo

The Windows file permissions and ownership information assigned, by default, to native S3 objects when file gateway discovers them in S3 buckets. This operation is only supported for file gateways.

Contents

Authentication

The authentication method of the file share.

Valid values are ActiveDirectory or GuestAccess. The default is ActiveDirectory.

Type: String
Required: No

DefaultStorageClass

The default storage class for objects put into an Amazon S3 bucket by the file gateway. Possible values are S3_STANDARD, S3_STANDARD_IA, or S3_ONEZONE_IA. If this field is not populated, the default value S3_STANDARD is used. Optional.

Type: String
Required: No

FileShareARN

The Amazon Resource Name (ARN) of the file share.

Type: String
Length Constraints: Minimum length of 50. Maximum length of 500.
Required: No

FileShareId

The ID of the file share.

Type: String
Required: No

FileShareStatus

The status of the file share. Possible values are CREATING, UPDATING, AVAILABLE and DELETING.

Type: String
Required: No

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.
Type: String
Length Constraints: Minimum length of 50. Maximum length of 500.
Required: No

GuessMIMETypeEnabled

A value that enables guessing of the MIME type for uploaded objects based on file extensions. Set this value to true to enable MIME type guessing, and otherwise to false. The default value is true.

Type: Boolean
Required: No

InvalidUserList

A list of users or groups in the Active Directory that are not allowed to access the file share. A group must be prefixed with the @ character. For example @group1. Can only be set if Authentication is set to ActiveDirectory.

Type: Array of strings
Array Members: Minimum number of 0 items. Maximum number of 100 items.
Length Constraints: Minimum length of 1. Maximum length of 64.
Required: No

KMSEncrypted

True to use Amazon S3 server-side encryption with your own AWS KMS key, or false to use a key managed by Amazon S3. Optional.

Type: Boolean
Required: No

KMSKey

The Amazon Resource Name (ARN) of the AWS KMS key used for Amazon S3 server side encryption. This value can only be set when KMSEncrypted is true. Optional.

Type: String
Required: No

LocationARN

The ARN of the backend storage used for storing file data.

Type: String
Required: No

ObjectACL

A value that sets the access control list permission for objects in the S3 bucket that a file gateway puts objects into. The default value is "private".

Type: String
Valid Values: `private` | `public-read` | `public-read-write` | `authenticated-read` | `bucket-owner-read` | `bucket-owner-full-control` | `aws-exec-read`

Required: No

**Path**

The file share path used by the SMB client to identify the mount point.

Type: String

Required: No

**ReadOnly**

A value that sets the write status of a file share. This value is true if the write status is read-only, and otherwise false.

Type: Boolean

Required: No

**RequesterPays**

A value that sets the access control list permission for objects in the Amazon S3 bucket that a file gateway puts objects into. The default value is `private`.

Type: Boolean

Required: No

**Role**

The ARN of the IAM role that file gateway assumes when it accesses the underlying storage.

Type: String


Required: No

**ValidUserList**

A list of users or groups in the Active Directory that are allowed to access the file share. A group must be prefixed with the `@` character. For example `@group1`. Can only be set if Authentication is set to `ActiveDirectory`.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

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

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
StorageGatewayError

Provides additional information about an error that was returned by the service as an or. See the errorCode and errorDetails members for more information about the error.

Contents

errorCode

Additional information about the error.

Type: String


Required: No

erroDetails

Human-readable text that provides detail about the error that occurred.

Type: String to string map

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
StorediSCSIVolume

Describes an iSCSI stored volume.

Contents

**CreatedDate**

The date the volume was created. Volumes created prior to March 28, 2017 don't have this timestamp.

Type: Timestamp

Required: No

**PreservedExistingData**

Indicates if when the stored volume was created, existing data on the underlying local disk was preserved.

Valid Values: true, false

Type: Boolean

Required: No

**SourceSnapshotId**

If the stored volume was created from a snapshot, this field contains the snapshot ID used, e.g. snap-78e22663. Otherwise, this field is not included.

Type: String

Pattern: `\Asnap-(\[0-9A-Fa-f\]{8}|\[0-9A-Fa-f\]{17})\z`

Required: No

**VolumeARN**

The Amazon Resource Name (ARN) of the storage volume.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: No

**VolumeDiskId**

The ID of the local disk that was specified in the CreateStorediSCSIVolume (p. 44) operation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 300.

Required: No

**VolumeId**

The unique identifier of the volume, e.g. vol-AE4B946D.

Type: String

Required: No

**VolumeiSCSIAttributes**

An `VolumeiSCSIAttributes (p. 251)` object that represents a collection of iSCSI attributes for one stored volume.

Type: `VolumeiSCSIAttributes (p. 251)` object

Required: No

**VolumeProgress**

Represents the percentage complete if the volume is restoring or bootstrapping that represents the percent of data transferred. This field does not appear in the response if the stored volume is not restoring or bootstrapping.

Type: Double

Required: No

**VolumeSizeInBytes**

The size of the volume in bytes.

Type: Long

Required: No

**VolumeStatus**

One of the `VolumeStatus` values that indicates the state of the storage volume.

Type: String


Required: No

**VolumeType**

One of the `VolumeType` enumeration values describing the type of the volume.

Type: String


Required: No

**VolumeUsedInBytes**

The size of the data stored on the volume in bytes.

*Note*

This value is not available for volumes created prior to May 13, 2015, until you store data on the volume.

Type: Long

Required: No

---

**See Also**

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2
Tag

Contents

Key

Type: String


Pattern: ^([^\p{L}\p{Z}\p{N}\_./:=+\-@]*)$  

Required: Yes

Value

Type: String

Length Constraints: 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
Tape

Describes a virtual tape object.

Contents

KMSKey

The Amazon Resource Name (ARN) of the AWS KMS key used for Amazon S3 server side encryption. This value can only be set when KMSEncrypted is true. Optional.

Type: String


Required: No

Progress

For archiving virtual tapes, indicates how much data remains to be uploaded before archiving is complete.

Range: 0 (not started) to 100 (complete).

Type: Double

Required: No

TapeARN

The Amazon Resource Name (ARN) of the virtual tape.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.


Required: No

TapeBarcode

The barcode that identifies a specific virtual tape.

Type: String


Pattern: ^[A-Z0-9]*$

Required: No

TapeCreateDate

The date the virtual tape was created.

Type: Timestamp

Required: No

TapeSizeInBytes

The size, in bytes, of the virtual tape capacity.
**Type:** Long  
**Required:** No

**TapeStatus**

The current state of the virtual tape.

**Type:** String  
**Required:** No

**TapeUsedInBytes**

The size, in bytes, of data stored on the virtual tape.

**Note**

This value is not available for tapes created prior to May 13, 2015.

**Type:** Long  
**Required:** No

**VTLDevice**

The virtual tape library (VTL) device that the virtual tape is associated with.

**Type:** String  
**Length Constraints:** Minimum length of 50. Maximum length of 500.  
**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
TapeArchive

Represents a virtual tape that is archived in the virtual tape shelf (VTS).

Contents

CompletionTime

The time that the archiving of the virtual tape was completed.

The default time stamp format is in the ISO8601 extended YYYY-MM-DD'T'HH:MM:SS'Z' format.

Type: Timestamp

Required: No

KMSKey

The Amazon Resource Name (ARN) of the AWS KMS key used for Amazon S3 server side encryption. This value can only be set when KMSEncrypted is true. Optional.

Type: String


Required: No

RetrievedTo

The Amazon Resource Name (ARN) of the tape gateway that the virtual tape is being retrieved to.

The virtual tape is retrieved from the virtual tape shelf (VTS).

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: No

TapeARN

The Amazon Resource Name (ARN) of an archived virtual tape.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.


Required: No

TapeBarcode

The barcode that identifies the archived virtual tape.

Type: String


Pattern: ^[A-Z0-9]*$

Required: No
**TapeCreatedDate**

The date the virtual tape was created.

Type: Timestamp

Required: No

**TapeSizeInBytes**

The size, in bytes, of the archived virtual tape.

Type: Long

Required: No

**TapeStatus**

The current state of the archived virtual tape.

Type: String

Required: No

**TapeUsedInBytes**

The size, in bytes, of data stored on the virtual tape.

**Note**

This value is not available for tapes created prior to May 13, 2015.

Type: Long

Required: No

**See Also**

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2
TapeInfo

Describes a virtual tape.

**Contents**

**GatewayARN**

The Amazon Resource Name (ARN) of the gateway. Use the `ListGateways` operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: No

**TapeARN**

The Amazon Resource Name (ARN) of a virtual tape.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.


Required: No

**TapeBarcode**

The barcode that identifies a specific virtual tape.

Type: String


Pattern: `^[A-Z0-9]*$`

Required: No

**TapeSizeInBytes**

The size, in bytes, of a virtual tape.

Type: Long

Required: No

**TapeStatus**

The status of the tape.

Type: String

Required: No

**See Also**

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2
TapeRecoveryPointInfo

Describes a recovery point.

Contents

TapeARN

The Amazon Resource Name (ARN) of the virtual tape.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.


Required: No

TapeRecoveryPointTime

The time when the point-in-time view of the virtual tape was replicated for later recovery.

The default time stamp format of the tape recovery point time is in the ISO8601 extended YYYY-MM-DD'T'HH:MM:SS'Z' format.

Type: Timestamp

Required: No

TapeSizeInBytes

The size, in bytes, of the virtual tapes to recover.

Type: Long

Required: No

TapeStatus

Type: String

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2
VolumeInfo

Describes a storage volume object.

Contents

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the ListGateways (p. 140) operation to return a list of gateways for your account and region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: No

GatewayId

The unique identifier assigned to your gateway during activation. This ID becomes part of the gateway Amazon Resource Name (ARN), which you use as input for other operations.

Valid Values: 50 to 500 lowercase letters, numbers, periods (.), and hyphens (-).

Type: String


Required: No

VolumeARN

The Amazon Resource Name (ARN) for the storage volume. For example, the following is a valid ARN:


Valid Values: 50 to 500 lowercase letters, numbers, periods (.), and hyphens (-).

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: No

VolumeId

The unique identifier assigned to the volume. This ID becomes part of the volume Amazon Resource Name (ARN), which you use as input for other operations.

Valid Values: 50 to 500 lowercase letters, numbers, periods (.), and hyphens (-).

Type: String


Required: No

VolumeSizeInBytes

The size of the volume in bytes.
Valid Values: 50 to 500 lowercase letters, numbers, periods (.), and hyphens (-).
Type: Long
Required: No

**VolumeType**
Type: String
Required: No

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2
VolumeiSCSIAttributes

Lists iSCSI information about a volume.

Contents

ChapEnabled

Indicates whether mutual CHAP is enabled for the iSCSI target.

Type: Boolean

Required: No

LunNumber

The logical disk number.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

NetworkInterfaceId

The network interface identifier.

Type: String

Pattern: ^\[\(25[0-5]|[2-4]\d|1\d\d|0\d\]|2\d[0-4]d|1\d\d|0\d\d)\.(25[0-5]|2[0-4]\d|1\d\d|0\d\d)\(25[0-5]|2[0-4]\d|1\d\d|0\d\d)\(25[0-5]|2[0-4]\d|1\d\d|0\d\d)\]z$

Required: No

NetworkInterfacePort

The port used to communicate with iSCSI targets.

Type: Integer

Required: No

TargetARN

The Amazon Resource Name (ARN) of the volume target.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 800.

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
VolumeRecoveryPointInfo

Contents

VolumeARN
  Type: String
  Length Constraints: Minimum length of 50. Maximum length of 500.
  Required: No

VolumeRecoveryPointTime
  Type: String
  Required: No

VolumeSizeInBytes
  Type: Long
  Required: No

VolumeUsageInBytes
  Type: Long
  Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2
VTLDdevice

Represents a device object associated with a tape gateway.

Contents

DeviceiSCSIAttributes

A list of iSCSI information about a VTL device.

Type: DeviceiSCSIAttributes (p. 220) object

Required: No

VTLDdeviceARN

Specifies the unique Amazon Resource Name (ARN) of the device (tape drive or media changer).

Type: String

Length Constraints: Minimum length of 50. Maximum length of 500.

Required: No

VTLDdeviceProductIdentifier

Type: String

Required: No

VTLDdeviceType

Type: String

Required: No

VTLDdeviceVendor

Type: String

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- 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’T’HHMMSS’Z’). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is
not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see Handling Dates in Signature Version 4 in the Amazon Web Services General Reference.

Type: string
Required: Conditional

X-Amz-Security-Token

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS Security Token Service, go to AWS Services That Work with IAM in the IAM User Guide.

Condition: If you're using temporary security credentials from the AWS Security Token Service, you must include the security token.

Type: string
Required: Conditional

X-Amz-Signature

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string
Required: Conditional

X-Amz-SignedHeaders

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see Task 1: Create a Canonical Request For Signature Version 4 in the Amazon Web Services General Reference.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string
Required: Conditional
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