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Job Management API Reference

The job management API for AWS Snowball is a network protocol based on HTTP (RFC 2616). For more information on this RFC, see HTTP (RFC 2616) on the IETF website. For each call to the job management API, you make an HTTP request to the region-specific job management API endpoint for the AWS Region where you want to manage jobs. The API uses JSON (RFC 4627) documents for HTTP request/response bodies.

Note
API calls made within the US regions for listing jobs or describing addresses return all jobs or addresses within the US for that account.

The job management API for Snowball is an RPC model. In this model, there is a fixed set of operations and the syntax for each operation is known to clients without any previous interaction. Following, you can find a description of each API operation using an abstract RPC notation, with an operation name that does not appear on the wire. For each operation, the topic specifies the mapping to HTTP request elements.

The specific job management operation to which a given request maps is determined by a combination of the request's method (GET, PUT, POST, or DELETE) and which of the various patterns its Request-URI matches. If the operation is PUT or POST, Snowball extracts call arguments from the Request-URI path segment, query parameters, and the JSON object in the request body.

Although the operation name, such as `CreateJob`, doesn't appear on the wire, these operation names are meaningful in AWS Identity and Access Management (IAM) policies. The operation name is also used to name commands in command-line tools and elements of the AWS SDK APIs. For example, the AWS Command Line Interface (AWS CLI) command `create-job` maps to the `CreateJob` operation. The operation name also appears in CloudTrail logs for Snowball API calls.

For information on installing and setting up the AWS CLI, including specifying what regions you want to make AWS CLI calls against, see the AWS Command Line Interface User Guide.

Note
The job management API provides programmatic access to the same functionality available in the AWS Snowball Management Console, that is to create and manage jobs for Snowball. To transfer data locally with a Snowball appliance, use the Snowball client or the S3 SDK Adapter for Snowball. For more information, see Transferring Data with a Snowball in the AWS Snowball User Guide.

If you use a Snowball Edge, use the Snowball client to unlock the appliance. For more information, see Using the Snowball Client in the AWS Snowball Developer Guide.

API Endpoint

The API endpoint is the Domain Name Service (DNS) name used as a host in the HTTP URI for the API calls. These API endpoints are region-specific and take the following form.

snowball.aws-region.amazonaws.com

For example, the Snowball API endpoint for the US West (Oregon) Region is the following.

snowball.us-west-2.amazonaws.com
For a list of AWS Regions that Snowball supports (where you can create and manage jobs), see AWS Import/Export in the AWS General Reference.

The region-specific API endpoint defines the scope of the Snowball resources that are accessible when you make an API call. For example, when you call the ListJobs operation using the preceding endpoint, you get a list of jobs in the US West (Oregon) Region that have been created in your account.

API Version

The version of the API being used for a call is identified by the first path segment of the request URI, and its form is an ISO 8601 date. The documentation describes API version 2016-06-30.

API Permission Policy Reference

The following policies are needed for creating jobs with the job management API for Snowball.

Role Trust Policy for Creating Jobs

Using the job management API to create jobs requires the following trust policy.

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "",
      "Effect": "Allow",
      "Principal": {
        "Service": "importexport.amazonaws.com"
      },
      "Action": "sts:AssumeRole",
      "Condition": {
        "StringEquals": {
          "sts:ExternalId": "AWSIE"
        }
      }
    }
  ]
}
```

Note
To learn more about trust policies, see Modifying a Role in the IAM User Guide.

Role Policy for Creating Import Jobs

Creating an import job requires the following role policy.

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "s3:GetBucketLocation",
        "s3:ListBucketMultipartUploads"
      ],
      "Resource": "arn:aws:s3:::*"
    },
    {
      "Effect": "Allow",
      "Action": [
        "s3:GetBucketLocation",
        "s3:ListBucketMultipartUploads"
      ],
      "Resource": "arn:aws:s3:::*"
    }
  ]
}
```
Role Policy for Creating Export Jobs

Creating an export job requires the following role policy.

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "s3:GetBucketLocation",
        "s3:GetObject",
        "s3:ListBucket"
      ],
      "Resource": "arn:aws:s3:::*"
    },
    {
      "Effect": "Allow",
      "Action": [
        "snowball:*"
      ],
      "Resource": ["
      ]
    }
  ]
}
```

Amazon S3 Bucket Policy Principal for Creating Jobs

In some cases, the Amazon S3 buckets that you use with Snowball have bucket policies in place that require listing the role session name of the assumed role. In these cases, you need to specify a principal in those policies that identifies AWSImportExport-Validation. The following Amazon S3 bucket policy example demonstrates how to do so.

Example

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "s3:GetBucketLocation",
        "s3:GetObject",
        "s3:ListBucket"
      ],
      "Resource": "arn:aws:s3:::*"
    },
    {
      "Effect": "Allow",
      "Action": [
        "snowball:*"
      ],
      "Resource": ["
      ]
    }
  ]
}
```
"Statement": {  
  "Sid": "Allow AWS Snowball To Create Jobs",  
  "Effect": "Deny",  
  "NotPrincipal": {  
    "AWS": [  
      "arn:aws:iam::111122223333:role/rolename",  
      "arn:aws:sts::111122223333:assumed-role/rolename/AWSImportExport-Validation",  
      "arn:aws:iam::111122223333:root"  
    ],  
    "Action": "S3:*",  
    "Resource": ["arn:aws:s3:::examplebucket/*"]  
  }  
},  
"Action": "S3:*",  
"Resource": ["arn:aws:s3:::examplebucket/*"]
}

In this policy example, we deny access to all principals except the one named in the NotPrincipal element. For more information on how to use NotPrincipal, see NotPrincipal in the IAM User Guide.

Note
For jobs in AWS GovCloud (US), Snowball uses AWSIEJob as the role session name of the assumed role.

Creating an IAM Role for Snowball and Snowball Edge

An IAM role policy must be created with read and write permissions for your Amazon S3 buckets. The IAM role must also have a trust relationship with Snowball. Having a trust relationship means that AWS can write the data in the Snowball and in your Amazon S3 buckets, depending on whether you're importing or exporting data.

When you create a job in the AWS Snow Family Management Console, creating the necessary IAM role occurs in step 4 in the Permission section. This process is automatic. The IAM role that you allow Snowball to assume is only used to write your data to your bucket when the Snowball with your transferred data arrives at AWS. The following procedure outlines that process.

To create the IAM role for your import job

1. Sign in to the AWS Management Console and open the AWS Snowball console at https://console.aws.amazon.com/importexport/.
2. Choose Create job.
3. In the first step, fill out the details for your import job into Amazon S3, and then choose Next.
4. In the second step, under Permission, choose Create/Select IAM Role.
   
   The IAM Management Console opens, showing the IAM role that AWS uses to copy objects into your specified Amazon S3 buckets.
5. Review the details on this page, and then choose Allow.
   
   You return to the AWS Snow Family Management Console, where Selected IAM role ARN contains the Amazon Resource Name (ARN) for the IAM role that you just created.
6. Choose Next to finish creating your IAM role.

The preceding procedure creates an IAM role that has write permissions for the Amazon S3 buckets that you plan to import your data into. The IAM role that is created has one of the following structures, depending on whether it's for an import job or export job.
IAM Role for an Import Job

```json
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "s3:GetBucketLocation",
        "s3:ListBucketMultipartUploads"
      ],
      "Resource": "arn:aws:s3:::*"
    },
    {
      "Effect": "Allow",
      "Action": [
        "s3:GetBucketPolicy",
        "s3:PutObject",
        "s3:AbortMultipartUpload",
        "s3:ListMultipartUploadParts",
        "s3:PutObjectAcl"
      ],
      "Resource": "arn:aws:s3:::*"
    }
  ]
}
```

If you use server-side encryption with AWS KMS–managed keys (SSE-KMS) to encrypt the Amazon S3 buckets associated with your import job, you also need to add the following statement to your IAM role.

```json
{
  "Effect": "Allow",
  "Action": [
    "kms:GenerateDataKey"
  ],
  "Resource": "arn:aws:s3:::SSEKMSEncryptedBucketName"
}
```

IAM Role for an Export Job

```json
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "s3:GetBucketLocation",
        "s3:GetBucketPolicy",
        "s3:GetObject",
        "s3:ListBucket"
      ],
      "Resource": "arn:aws:s3:::*"
    }
  ]
}
```

If you use server-side encryption with AWS KMS–managed keys to encrypt the Amazon S3 buckets associated with your export job, you also need to add the following statement to your IAM role.

```json
{
  "Effect": "Allow",
  "Action": [
    "s3:GetObject"
  ],
  "Resource": "arn:aws:s3:::SSEKMSEncryptedBucketName"
}
```
"Effect": "Allow",
"Action": [
  "kms:Decrypt"
],
"Resource": "arn:aws:s3:::SSEKMSEncryptedBucketName"
Actions

The following actions are supported by AWS Snowball:

- CancelCluster (p. 9)
- CancelJob (p. 11)
- CreateAddress (p. 13)
- CreateCluster (p. 15)
- CreateJob (p. 21)
- CreateLongTermPricing (p. 29)
- CreateReturnShippingLabel (p. 31)
- DescribeAddress (p. 34)
- DescribeAddresses (p. 36)
- DescribeCluster (p. 39)
- DescribeJob (p. 42)
- DescribeReturnShippingLabel (p. 47)
- GetJobManifest (p. 49)
- GetJobUnlockCode (p. 51)
- GetSnowballUsage (p. 53)
- GetSoftwareUpdates (p. 54)
- ListClusterJobs (p. 56)
- ListClusters (p. 59)
- ListCompatibleImages (p. 61)
- ListJobs (p. 63)
- ListLongTermPricing (p. 65)
- UpdateCluster (p. 68)
- UpdateJob (p. 72)
- UpdateJobShipmentState (p. 76)
- UpdateLongTermPricing (p. 78)

The following actions are supported by AWS Snow Device Management:

- CancelTask (p. 80)
- CreateTask (p. 82)
- DescribeDevice (p. 85)
- DescribeDeviceEc2Instances (p. 89)
- DescribeExecution (p. 92)
- DescribeTask (p. 95)
- ListDeviceResources (p. 98)
- ListDevices (p. 101)
- ListExecutions (p. 104)
- ListTagsForResource (p. 107)
- ListTasks (p. 109)
- TagResource (p. 112)
AWS Snowball

The following actions are supported by AWS Snowball:

- CancelCluster (p. 9)
- CancelJob (p. 11)
- CreateAddress (p. 13)
- CreateCluster (p. 15)
- CreateJob (p. 21)
- CreateLongTermPricing (p. 29)
- CreateReturnShippingLabel (p. 31)
- DescribeAddress (p. 34)
- DescribeAddresses (p. 36)
- DescribeCluster (p. 39)
- DescribeJob (p. 42)
- DescribeReturnShippingLabel (p. 47)
- GetJobManifest (p. 49)
- GetJobUnlockCode (p. 51)
- GetSnowballUsage (p. 53)
- GetSoftwareUpdates (p. 54)
- ListClusterJobs (p. 56)
- ListClusters (p. 59)
- ListCompatibleImages (p. 61)
- ListJobs (p. 63)
- ListLongTermPricing (p. 65)
- UpdateCluster (p. 68)
- UpdateJob (p. 72)
- UpdateJobShipmentState (p. 76)
- UpdateLongTermPricing (p. 78)

- UntagResource (p. 114)
CancelCluster
Service: AWS Snowball
Cancels a cluster job. You can only cancel a cluster job while it's in the AwaitingQuorum status. You'll have at least an hour after creating a cluster job to cancel it.

Request Syntax
{
   "ClusterId": "string"
}

Request Parameters
For information about the parameters that are common to all actions, see Common Parameters (p. 175).

The request accepts the following data in JSON format.

ClusterId (p. 9)
The 39-character ID for the cluster that you want to cancel, for example CID123e4567-e89b-12d3-a456-426655440000.
Type: String
Length Constraints: Fixed length of 39.
Pattern: CID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}
Required: Yes

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

Errors
For information about the errors that are common to all actions, see Common Errors (p. 177).

InvalidJobStateException
The action can't be performed because the job's current state doesn't allow that action to be performed.
HTTP Status Code: 400

InvalidResourceException
The specified resource can't be found. Check the information you provided in your last request, and try again.
HTTP Status Code: 400

KMSRequestFailedException
The provided AWS Key Management Service key lacks the permissions to perform the specified CreateJob (p. 21) or UpdateJob (p. 72) action.
HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CancelJob
Service: AWS Snowball

Cancels the specified job. You can only cancel a job before its JobState value changes to PreparingAppliance. Requesting the ListJobs or DescribeJob action returns a job's JobState as part of the response element data returned.

Request Syntax

```
{
  "JobId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 175).

The request accepts the following data in JSON format.

**JobId** (p. 11)

The 39-character job ID for the job that you want to cancel, for example JID123e4567-e89b-12d3-a456-426655440000.

Type: String

Length Constraints: Fixed length of 39.

Pattern: (M|J)ID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 177).

**InvalidJobStateException**

The action can't be performed because the job's current state doesn't allow that action to be performed.

HTTP Status Code: 400

**InvalidResourceException**

The specified resource can't be found. Check the information you provided in your last request, and try again.

HTTP Status Code: 400

**KMSRequestFailedException**

The provided AWS Key Management Service key lacks the permissions to perform the specified CreateJob (p. 21) or UpdateJob (p. 72) action.
See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CreateAddress
Service: AWS Snowball

Creates an address for a Snow device to be shipped to. Addresses are validated at the time of creation. The address you provide must be located within the serviceable area of your region. If the address is invalid or unsupported, then an exception is thrown.

Request Syntax

```
{
    "Address": {
        "AddressId": "string",
        "City": "string",
        "Company": "string",
        "Country": "string",
        "IsRestricted": boolean,
        "Landmark": "string",
        "Name": "string",
        "PhoneNumber": "string",
        "PostalCode": "string",
        "PrefectureOrDistrict": "string",
        "StateOrProvince": "string",
        "Street1": "string",
        "Street2": "string",
        "Street3": "string"
    }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 175).

The request accepts the following data in JSON format.

**Address (p. 13)**

The address that you want the Snow device shipped to.

Type: Address (p. 118) object

Required: Yes

Response Syntax

```
{
    "AddressId": "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.
CreateAddress

AddressId (p. 13)

The automatically generated ID for a specific address. You'll use this ID when you create a job to specify which address you want the Snow device for that job shipped to.

Type: String


Pattern: . *

Errors

For information about the errors that are common to all actions, see Common Errors (p. 177).

InvalidAddressException

The address provided was invalid. Check the address with your region's carrier, and try again.

HTTP Status Code: 400

UnsupportedAddressException

The address is either outside the serviceable area for your region, or an error occurred. Check the address with your region's carrier and try again. If the issue persists, contact AWS Support.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CreateCluster
Service: AWS Snowball

Creates an empty cluster. Each cluster supports five nodes. You use the CreateJob (p. 21) action separately to create the jobs for each of these nodes. The cluster does not ship until these five node jobs have been created.

Request Syntax

```json
{
    "AddressId": "string",
    "Description": "string",
    "ForwardingAddressId": "string",
    "JobType": "string",
    "KmsKeyARN": "string",
    "Notification": {
        "JobStatesToNotify": [ "string" ],
        "NotifyAll": boolean,
        "SnsTopicARN": "string"
    },
    "OnDeviceServiceConfiguration": {
        "NFSOnDeviceService": {
            "StorageLimit": number,
            "StorageUnit": "string"
        },
        "TGWOnDeviceService": {
            "StorageLimit": number,
            "StorageUnit": "string"
        }
    },
    "RemoteManagement": "string",
    "Resources": {
        "Ec2AmiResources": [
            {
                "AmiId": "string",
                "SnowballAmiId": "string"
            }
        ],
        "LambdaResources": [
            {
                "EventTriggers": [
                    {
                        "EventResourceARN": "string"
                    }
                ],
                "LambdaArn": "string"
            }
        ],
        "S3Resources": [
            {
                "BucketArn": "string",
                "KeyRange": {
                    "BeginMarker": "string",
                    "EndMarker": "string"
                },
                "TargetOnDeviceServices": [
                    {
                        "ServiceName": "string",
                        "TransferOption": "string"
                    }
                ]
            }
        ]
    }
}
```
Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 175).

The request accepts the following data in JSON format.

**AddressId (p. 15)**

The ID for the address that you want the cluster shipped to.

Type: String

Length Constraints: Fixed length of 40.

Pattern: ADID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

**Description (p. 15)**

An optional description of this specific cluster, for example Environmental Data Cluster-01.

Type: String


Pattern: .*

Required: No

**ForwardingAddressId (p. 15)**

This field is not supported in your region.

Type: String

Length Constraints: Fixed length of 40.

Pattern: ADID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: No

**JobType (p. 15)**

The type of job for this cluster. Currently, the only job type supported for clusters is LOCAL_USE.

For information about Snow Family device types, see Snow Family Devices and Capacity in the Snowcone User Guide or Snow Family Devices and Capacity in the Snowball Edge User Guide.

Type: String

Valid Values: IMPORT | EXPORT | LOCAL_USE
CreateCluster

Required: Yes

KmsKeyARN (p. 15)

The KmsKeyARN value that you want to associate with this cluster. KmsKeyARN values are created by using the CreateKey API action in AWS Key Management Service (AWS KMS).

Type: String

Length Constraints: Maximum length of 255.

Pattern: arn:aws:*:kms:*:[0-9]{12}:key/*

Required: No

Notification (p. 15)

The Amazon Simple Notification Service (Amazon SNS) notification settings for this cluster.

Type: Notification (p. 146) object

Required: No

OnDeviceServiceConfiguration (p. 15)

Specifies the service or services on the Snow Family device that your transferred data will be exported from or imported into. AWS Snow Family device clusters support Amazon S3 and NFS (Network File System).

Type: OnDeviceServiceConfiguration (p. 147) object

Required: No

RemoteManagement (p. 15)

Allows you to securely operate and manage Snow devices in a cluster remotely from outside of your internal network. When set to INSTALLED_AUTOSTART, remote management will automatically be available when the device arrives at your location. Otherwise, you need to use the Snowball Client to manage the device.

Type: String

Valid Values: INSTALLED_ONLY | INSTALLED_AUTOSTART

Required: No

Resources (p. 15)

The resources associated with the cluster job. These resources include Amazon S3 buckets and optional AWS Lambda functions written in the Python language.

Type: JobResource (p. 140) object

Required: Yes

RoleARN (p. 15)

The RoleARN that you want to associate with this cluster. RoleARN values are created by using the CreateRole API action in AWS Identity and Access Management (IAM).

Type: String

Length Constraints: Maximum length of 255.

Pattern: arn:aws:*:iam::*[0-9]{12}:role/*
The shipping speed for each node in this cluster. This speed doesn't dictate how soon you'll get each Snowball Edge device, rather it represents how quickly each device moves to its destination while in transit. Regional shipping speeds are as follows:

- In Australia, you have access to express shipping. Typically, Snow devices shipped express are delivered in about a day.
- In the European Union (EU), you have access to express shipping. Typically, Snow devices shipped express are delivered in about a day. In addition, most countries in the EU have access to standard shipping, which typically takes less than a week, one way.
- In India, Snow devices are delivered in one to seven days.
- In the United States of America (US), you have access to one-day shipping and two-day shipping.
- In Australia, you have access to express shipping. Typically, devices shipped express are delivered in about a day.
- In the European Union (EU), you have access to express shipping. Typically, Snow devices shipped express are delivered in about a day. In addition, most countries in the EU have access to standard shipping, which typically takes less than a week, one way.
- In India, Snow devices are delivered in one to seven days.
- In the US, you have access to one-day shipping and two-day shipping.

Type: String

Valid Values: SECOND_DAY | NEXT_DAY | EXPRESS | STANDARD

Required: Yes

SnowballType (p. 15)

The type of Snow Family devices to use for this cluster.

**Note**

For cluster jobs, AWS Snow Family currently supports only the EDGE device type.

For information about Snow Family device types, see Snow Family Devices and Capacity in the Snowcone User Guide or Snow Family Devices and Capacity in the Snowball Edge User Guide.

Type: String

Valid Values: STANDARD | EDGE | EDGE_C | EDGE_CG | EDGE_S | SNC1_HDD | SNC1_SSD

Required: Yes

TaxDocuments (p. 15)

The tax documents required in your AWS Region.

Type: TaxDocuments (p. 153) object

Required: No

**Response Syntax**

```json
{
   "ClusterId": "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.

**ClusterId** (p. 18)

The automatically generated ID for a cluster.

Type: String

Length Constraints: Fixed length of 39.

Pattern: CID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Errors

For information about the errors that are common to all actions, see Common Errors (p. 177).

**Ec2RequestFailedException**

Your IAM user lacks the necessary Amazon EC2 permissions to perform the attempted action.

HTTP Status Code: 400

**InvalidInputCombinationException**

Job or cluster creation failed. One or more inputs were invalid. Confirm that the CreateCluster:SnowballType (p. 18) value supports your CreateJob:JobType (p. 24), and try again.

HTTP Status Code: 400

**InvalidResourceException**

The specified resource can't be found. Check the information you provided in your last request, and try again.

HTTP Status Code: 400

**KMSRequestFailedException**

The provided AWS Key Management Service key lacks the permissions to perform the specified CreateJob (p. 21) or UpdateJob (p. 72) action.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
CreateJob
Service: AWS Snowball

Creates a job to import or export data between Amazon S3 and your on-premises data center. Your AWS account must have the right trust policies and permissions in place to create a job for a Snow device. If you're creating a job for a node in a cluster, you only need to provide the `clusterId` value; the other job attributes are inherited from the cluster.

**Note**

Only the Snowball; Edge device type is supported when ordering clustered jobs. The device capacity is optional. Availability of device types differ by AWS Region. For more information about Region availability, see [AWS Regional Services](https://aws.amazon.com/regions/).

**Snow Family devices and their capacities.**

- **Snow Family device type: SNC1_SSD**
  - Capacity: T14
  - Description: Snowcone

- **Snow Family device type: SNC1_HDD**
  - Capacity: T8
  - Description: Snowcone

- **Device type: EDGE_S**
  - Capacity: T98
  - Description: Snowball Edge Storage Optimized for data transfer only

- **Device type: EDGE_CG**
  - Capacity: T42
  - Description: Snowball Edge Compute Optimized with GPU

- **Device type: EDGE_C**
  - Capacity: T42
  - Description: Snowball Edge Compute Optimized without GPU

- **Device type: EDGE**
  - Capacity: T100
  - Description: Snowball Edge Storage Optimized with EC2 Compute

- **Device type: STANDARD**
  - Capacity: T50
  - Description: Original Snowball device

  **Note**
  This device is only available in the Ningxia, Beijing, and Singapore AWS Region

- **Device type: STANDARD**
  - Capacity: T80
  - Description: Original Snowball device

  **Note**
  This device is only available in the Ningxia, Beijing, and Singapore AWS Region.
Request Syntax

```json
{
    "AddressId": "string",
    "ClusterId": "string",
    "Description": "string",
    "DeviceConfiguration": {
        "SnowconeDeviceConfiguration": {
            "WirelessConnection": {
                "IsWifiEnabled": boolean
            }
        }
    },
    "ForwardingAddressId": "string",
    "JobType": "string",
    "KmsKeyARN": "string",
    "LongTermPricingId": "string",
    "Notification": {
        "JobStatesToNotify": [ "string" ],
        "NotifyAll": boolean,
        "SnsTopicARN": "string"
    },
    "OnDeviceServiceConfiguration": {
        "NFSOnDeviceService": {
            "StorageLimit": number,
            "StorageUnit": "string"
        },
        "TGWOnDeviceService": {
            "StorageLimit": number,
            "StorageUnit": "string"
        }
    },
    "RemoteManagement": "string",
    "Resources": {
        "Ec2AmiResources": [
            {
                "AmiId": "string",
                "SnowballAmiId": "string"
            }
        ],
        "LambdaResources": [
            {
                "EventTriggers": [
                    {
                        "EventResourceARN": "string"
                    }
                ],
                "LambdaArn": "string"
            }
        ],
        "S3Resources": [
            {
                "BucketArn": "string",
                "KeyRange": {
                    "BeginMarker": "string",
                    "EndMarker": "string"
                },
                "TargetOnDeviceServices": [
                    {
                        "ServiceName": "string",
                        "TransferOption": "string"
                    }
                ]
            }
        ]
    }
}
```
Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 175).

The request accepts the following data in JSON format.

**AddressId (p. 22)**

The ID for the address that you want the Snow device shipped to.

Type: String

Length Constraints: Fixed length of 40.

Pattern: ADID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: No

**ClusterId (p. 22)**

The ID of a cluster. If you're creating a job for a node in a cluster, you need to provide only this clusterId value. The other job attributes are inherited from the cluster.

Type: String

Length Constraints: Fixed length of 39.

Pattern: CID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: No

**Description (p. 22)**

Defines an optional description of this specific job, for example Important Photos 2016-08-11.

Type: String


Pattern: .*

Required: No

**DeviceConfiguration (p. 22)**

Defines the device configuration for an AWS Snowcone job.
For information about Snow Family device types, see Snow Family Devices and Capacity in the Snowcone User Guide or Snow Family Devices and Capacity in the Snowball Edge User Guide.

Type: DeviceConfiguration (p. 128) object

Required: No

ForwardingAddressId (p. 22)

This field is not supported in your Region.

Type: String

Length Constraints: Fixed length of 40.

Pattern: ADID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: No

JobType (p. 22)

Defines the type of job that you're creating.

Type: String

Valid Values: IMPORT | EXPORT | LOCAL_USE

Required: No

KmsKeyARN (p. 22)

The KmsKeyARN that you want to associate with this job. KmsKeyARNS are created using the CreateKey AWS Key Management Service (KMS) API action.

Type: String

Length Constraints: Maximum length of 255.

Pattern: arn:aws.*:kms:.*:[0-9]{12}:key/.*

Required: No

LongTermPricingId (p. 22)

The ID of the long-term pricing type for the device.

Type: String

Length Constraints: Fixed length of 41.

Pattern: LTPID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: No

Notification (p. 22)

Defines the Amazon Simple Notification Service (Amazon SNS) notification settings for this job.

Type: Notification (p. 146) object

Required: No

OnDeviceServiceConfiguration (p. 22)

Specifies the service or services on the Snow Family device that your transferred data will be exported from or imported into. AWS Snow Family supports Amazon S3 and NFS (Network File System) and the AWS Storage Gateway service Tape Gateway type.
CreateJob

Type: OnDeviceServiceConfiguration (p. 147) object

Required: No

RemoteManagement (p. 22)

Allows you to securely operate and manage Snowcone devices remotely from outside of your internal network. When set to INSTALLED_AUTOSTART, remote management will automatically be available when the device arrives at your location. Otherwise, you need to use the Snowball Client to manage the device.

Type: String

Valid Values: INSTALLED_ONLY | INSTALLED_AUTOSTART

Required: No

Resources (p. 22)

Defines the Amazon S3 buckets associated with this job.

With IMPORT jobs, you specify the bucket or buckets that your transferred data will be imported into.

With EXPORT jobs, you specify the bucket or buckets that your transferred data will be exported from. Optionally, you can also specify a KeyRange value. If you choose to export a range, you define the length of the range by providing either an inclusive BeginMarker value, an inclusive EndMarker value, or both. Ranges are UTF-8 binary sorted.

Type: JobResource (p. 140) object

Required: No

RoleARN (p. 22)

The RoleARN that you want to associate with this job. RoleARNS are created using the CreateRole AWS Identity and Access Management (IAM) API action.

Type: String

Length Constraints: Maximum length of 255.

Pattern: arn:aws.*:iam::[0-9]{12}:role/*

Required: No

ShippingOption (p. 22)

The shipping speed for this job. This speed doesn't dictate how soon you'll get the Snow device, rather it represents how quickly the Snow device moves to its destination while in transit. Regional shipping speeds are as follows:

- In Australia, you have access to express shipping. Typically, Snow devices shipped express are delivered in about a day.
- In the European Union (EU), you have access to express shipping. Typically, Snow devices shipped express are delivered in about a day. In addition, most countries in the EU have access to standard shipping, which typically takes less than a week, one way.
- In India, Snow devices are delivered in one to seven days.
- In the US, you have access to one-day shipping and two-day shipping.

Type: String

Valid Values: SECOND_DAY | NEXT_DAY | EXPRESS | STANDARD
CreateJob

Required: No

SnowballCapacityPreference (p. 22)

If your job is being created in one of the US regions, you have the option of specifying what size Snow device you’d like for this job. In all other regions, Snowballs come with 80 TB in storage capacity.

For information about Snow Family device types, see Snow Family Devices and Capacity in the Snowcone User Guide or Snow Family Devices and Capacity in the Snowball Edge User Guide.

Type: String

Valid Values: T50 | T80 | T100 | T42 | T98 | T8 | T14 | NoPreference

Required: No

SnowballType (p. 22)

The type of Snow Family devices to use for this job.

Note
For cluster jobs, AWS Snow Family currently supports only the EDGE device type.

The type of AWS Snow device to use for this job. Currently, the only supported device type for cluster jobs is EDGE.

For more information, see Snowball Edge Device Options in the Snowball Edge Developer Guide.

For information about Snow Family device types, see Snow Family Devices and Capacity in the Snowcone User Guide or Snow Family Devices and Capacity in the Snowball Edge User Guide.

Type: String

Valid Values: STANDARD | EDGE | EDGE_C | EDGE_CG | EDGE_S | SNC1_HDD | SNC1_SSD

Required: No

TaxDocuments (p. 22)

The tax documents required in your AWS Region.

Type: TaxDocuments (p. 153) object

Required: No

Response Syntax

```
{
  "JobId": "string"
}
```

Response Elements

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

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

JobId (p. 26)

The automatically generated ID for a job, for example JID123e4567-e89b-12d3-a456-426655440000.
Type: String

Length Constraints: Fixed length of 39.

Pattern: (M|J)ID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Errors

For information about the errors that are common to all actions, see Common Errors (p. 177).

ClusterLimitExceededException

Job creation failed. Currently, clusters support five nodes. If you have fewer than five nodes for your cluster and you have more nodes to create for this cluster, try again and create jobs until your cluster has exactly five nodes.

HTTP Status Code: 400

Ec2RequestFailedException

Your IAM user lacks the necessary Amazon EC2 permissions to perform the attempted action.

HTTP Status Code: 400

InvalidInputCombinationException

Job or cluster creation failed. One or more inputs were invalid. Confirm that the CreateCluster:SnowballType (p. 18) value supports your CreateJob:JobType (p. 24), and try again.

HTTP Status Code: 400

InvalidResourceException

The specified resource can’t be found. Check the information you provided in your last request, and try again.

HTTP Status Code: 400

KMSRequestFailedException

The provided AWS Key Management Service key lacks the permissions to perform the specified CreateJob (p. 21) or UpdateJob (p. 72) action.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CreateLongTermPricing
Service: AWS Snowball

Creates a job with the long-term usage option for a device. The long-term usage is a 1-year or 3-year long-term pricing type for the device. You are billed upfront, and AWS provides discounts for long-term pricing.

Request Syntax

```json
{
  "IsLongTermPricingAutoRenew": boolean,
  "LongTermPricingType": "string",
  "SnowballType": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 175).

The request accepts the following data in JSON format.

IsLongTermPricingAutoRenew (p. 29)

Specifies whether the current long-term pricing type for the device should be renewed.

Type: Boolean

Required: No

LongTermPricingType (p. 29)

The type of long-term pricing option you want for the device, either 1-year or 3-year long-term pricing.

Type: String

Valid Values: OneYear | ThreeYear

Required: Yes

SnowballType (p. 29)

The type of Snow Family devices to use for the long-term pricing job.

Type: String

Valid Values: STANDARD | EDGE | EDGE_C | EDGE.CG | EDGE.S | SNC1_HDD | SNC1.SSD

Required: No

Response Syntax

```json
{
  "LongTermPricingId": "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.

**LongTermPricingId (p. 29)**

The ID of the long-term pricing type for the device.

Type: String

Length Constraints: Fixed length of 41.

Pattern: LTPID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Errors

For information about the errors that are common to all actions, see Common Errors (p. 177).

**InvalidResourceException**

The specified resource can't be found. Check the information you provided in your last request, and try again.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CreateReturnShippingLabel

Service: AWS Snowball

Creates a shipping label that will be used to return the Snow device to AWS.

Request Syntax

```json
{
    "JobId": "string",
    "ShippingOption": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 175).

The request accepts the following data in JSON format.

**JobId (p. 31)**

The ID for a job that you want to create the return shipping label for; for example, JID123e4567-e89b-12d3-a456-426655440000.

Type: String

Length Constraints: Fixed length of 39.

Pattern: (M|J)ID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

**ShippingOption (p. 31)**

The shipping speed for a particular job. This speed doesn't dictate how soon the device is returned to AWS. This speed represents how quickly it moves to its destination while in transit. Regional shipping speeds are as follows:

Type: String

Valid Values: SECOND_DAY | NEXT_DAY | EXPRESS | STANDARD

Required: No

Response Syntax

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

Response Elements

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

The following data is returned in JSON format by the service.
Status (p. 31)

The status information of the task on a Snow device that is being returned to AWS.

Type: String

Valid Values: InProgress | TimedOut | Succeeded | Failed

Errors

For information about the errors that are common to all actions, see Common Errors (p. 177).

ConflictException

You get this exception when you call CreateReturnShippingLabel more than once when other requests are not completed.

HTTP Status Code: 400

InvalidInputCombinationException

Job or cluster creation failed. One or more inputs were invalid. Confirm that the CreateCluster:SnowballType (p. 18) value supports your CreateJob:JobType (p. 24), and try again.

HTTP Status Code: 400

InvalidJobStateException

The action can't be performed because the job's current state doesn't allow that action to be performed.

HTTP Status Code: 400

InvalidResourceException

The specified resource can't be found. Check the information you provided in your last request, and try again.

HTTP Status Code: 400

ReturnShippingLabelAlreadyExistsException

You get this exception if you call CreateReturnShippingLabel and a valid return shipping label already exists. In this case, use DescribeReturnShippingLabel to get the URL.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DescribeAddress
Service: AWS Snowball

Takes an AddressId and returns specific details about that address in the form of an Address object.

Request Syntax

```
{
    "AddressId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 175).

The request accepts the following data in JSON format.

**AddressId (p. 34)**

The automatically generated ID for a specific address.

- Type: String
- Length Constraints: Fixed length of 40.
- Pattern: ADID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}
- Required: Yes

Response Syntax

```
{
    "Address": {
        "AddressId": "string",
        "City": "string",
        "Company": "string",
        "Country": "string",
        "IsRestricted": boolean,
        "Landmark": "string",
        "Name": "string",
        "PhoneNumber": "string",
        "PostalCode": "string",
        "PrefectureOrDistrict": "string",
        "StateOrProvince": "string",
        "Street1": "string",
        "Street2": "string",
        "Street3": "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.
Address (p. 34)

The address that you want the Snow device(s) associated with a specific job to be shipped to.

Type: Address (p. 118) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 177).

InvalidResourceException

The specified resource can't be found. Check the information you provided in your last request, and try again.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DescribeAddresses

Service: AWS Snowball

Returns a specified number of ADDRESS objects. Calling this API in one of the US regions will return addresses from the list of all addresses associated with this account in all US regions.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 175).

The request accepts the following data in JSON format.

**MaxResults (p. 36)**

The number of ADDRESS objects to return.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

**NextToken (p. 36)**

HTTP requests are stateless. To identify what object comes "next" in the list of ADDRESS objects, you have the option of specifying a value for NextToken as the starting point for your list of returned addresses.

Type: String


Pattern: .*

Required: No

Response Syntax

```json
{
    "Addresses": [
        {
            "AddressId": "string",
            "City": "string",
            "Company": "string",
            "Country": "string",
            "IsRestricted": boolean,
            "Landmark": "string",
            "Name": "string",
            "PhoneNumber": "string",
            "PostalCode": "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.

Addresses (p. 36)

The Snow device shipping addresses that were created for this account.

Type: Array of Address (p. 118) objects

NextToken (p. 36)

HTTP requests are stateless. If you use the automatically generated NextToken value in your next DescribeAddresses call, your list of returned addresses will start from this point in the array.

Type: String


Pattern: .*

Errors

For information about the errors that are common to all actions, see Common Errors (p. 177).

InvalidNextTokenException

The NextToken string was altered unexpectedly, and the operation has stopped. Run the operation without changing the NextToken string, and try again.

HTTP Status Code: 400

InvalidResourceException

The specified resource can't be found. Check the information you provided in your last request, and try again.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DescribeCluster

Service: AWS Snowball

Returns information about a specific cluster including shipping information, cluster status, and other important metadata.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 175).

The request accepts the following data in JSON format.

**ClusterId (p. 39)**

The automatically generated ID for a cluster.

Type: String

Length Constraints: Fixed length of 39.

Pattern: CID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

Response Syntax

```json
{
    "ClusterMetadata": {
        "AddressId": "string",
        "ClusterId": "string",
        "ClusterState": "string",
        "CreationDate": number,
        "Description": "string",
        "ForwardingAddressId": "string",
        "JobType": "string",
        "KmsKeyARN": "string",
        "Notification": {
            "JobStatesToNotify": [ "string" ],
            "NotifyAll": boolean,
            "SnsTopicARN": "string"
        },
        "OnDeviceServiceConfiguration": {
            "NFSOnDeviceService": {
                "StorageLimit": number,
                "StorageUnit": "string"
            },
            "TGWOnDeviceService": {
                "StorageLimit": number,
                "StorageUnit": "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.

**ClusterMetadata (p. 39)**

Information about a specific cluster, including shipping information, cluster status, and other important metadata.

Type: ClusterMetadata (p. 123) object

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 177).
InvalidResourceException

The specified resource can't be found. Check the information you provided in your last request, and try again.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DescribeJob
Service: AWS Snowball

Returns information about a specific job including shipping information, job status, and other important metadata.

Request Syntax

```json
{
   "JobId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 175).

The request accepts the following data in JSON format.

**JobId (p. 42)**

The automatically generated ID for a job, for example JID123e4567-e89b-12d3-a456-426655440000.

Type: String

Length Constraints: Fixed length of 39.

Pattern: (M|J)ID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

Response Syntax

```json
{
   "JobMetadata": {
      "AddressId": "string",
      "ClusterId": "string",
      "CreationDate": number,
      "DataTransferProgress": {
         "BytesTransferred": number,
         "ObjectsTransferred": number,
         "TotalBytes": number,
         "TotalObjects": number
      },
      "Description": "string",
      "DeviceConfiguration": {
         "SnowconeDeviceConfiguration": {
            "WirelessConnection": {
               "IsWifiEnabled": boolean
            }
         }
      },
      "ForwardingAddressId": "string",
      "JobId": "string",
      "JobLogInfo": {
         "JobCompletionReportURI": "string",
         "JobFailureLogURI": "string"
      }
   }
}
```
"JobSuccessLogURI": "string",
"JobState": "string",
"JobType": "string",
"KmsKeyARN": "string",
"LongTermPricingId": "string",
"Notification": {
  "JobStatesToNotify": [ "string" ],
  "NotifyAll": boolean,
  "SnsTopicARN": "string"
},
"OnDeviceServiceConfiguration": {
  "NFSONDeviceService": {
    "StorageLimit": number,
    "StorageUnit": "string"
  },
  "TGWONDeviceService": {
    "StorageLimit": number,
    "StorageUnit": "string"
  }
},
"RemoteManagement": "string",
"Resources": {
  "Ec2AmiResources": [
    {
      "AmiId": "string",
      "SnowballAmiId": "string"
    }
  ],
  "LambdaResources": [
    {
      "EventTriggers": [
        {
          "EventResourceARN": "string"
        }
      ],
      "LambdaArn": "string"
    }
  ],
  "S3Resources": [
    {
      "BucketArn": "string",
      "KeyRange": {
        "BeginMarker": "string",
        "EndMarker": "string"
      },
      "TargetOnDeviceServices": [
        {
          "ServiceName": "string",
          "TransferOption": "string"
        }
      ]
    }
  ],
  "RoleARN": "string",
  "ShippingDetails": {
    "InboundShipment": {
      "Status": "string",
      "TrackingNumber": "string"
    },
    "OutboundShipment": {
      "Status": "string",
      "TrackingNumber": "string"
    },
    "ShippingOption": "string"
"SubJobMetadata": [
  {
    "AddressId": "string",
    "ClusterId": "string",
    "CreationDate": number,
    "DataTransferProgress": {
      "BytesTransferred": number,
      "ObjectsTransferred": number,
      "TotalBytes": number,
      "TotalObjects": number
    },
    "Description": "string",
    "DeviceConfiguration": {
      "SnowconeDeviceConfiguration": {
        "WirelessConnection": {
          "IsWifiEnabled": boolean
        }
      }
    },
    "ForwardingAddressId": "string",
    "JobId": "string",
    "JobLogInfo": {
      "JobCompletionReportURI": "string",
      "JobFailureLogURI": "string",
      "JobSuccessLogURI": "string"
    },
    "JobState": "string",
    "JobType": "string",
    "KmsKeyARN": "string",
    "LongTermPricingId": "string",
    "Notification": {
      "JobStatesToNotify": [ "string" ],
      "NotifyAll": boolean,
      "SnsTopicARN": "string"
    },
    "OnDeviceServiceConfiguration": {
      "NFSOnDeviceService": {
        "StorageLimit": number,
        "StorageUnit": "string"
      },
      "TGWOnDeviceService": {
        "StorageLimit": number,
        "StorageUnit": "string"
      }
    },
    "RemoteManagement": "string",
    "Resources": {
      "Ec2AmiResources": [
        {
          "AmiId": "string",
          "SnowballAmiId": "string"
        }
      ],
      "LambdaResources": [
        {
          "EventTriggers": ["string"]
        }
      ]
    }
  }
]
"EventResourceARN": "string"
},
"LambdaArn": "string"
],
"S3Resources": [
{
"BucketArn": "string",
"KeyRange": {
"BeginMarker": "string",
"EndMarker": "string"
},
"TargetOnDeviceServices": [
{
"ServiceName": "string",
"TransferOption": "string"
}
]
},
"RoleARN": "string",
"ShippingDetails": {
"InboundShipment": {
"Status": "string",
"TrackingNumber": "string"
},
"OutboundShipment": {
"Status": "string",
"TrackingNumber": "string"
},
"ShippingOption": "string"
},
"SnowballCapacityPreference": "string",
"SnowballType": "string",
"TaxDocuments": {
"IND": {
"GSTIN": "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.

**JobMetadata (p. 42)**

Information about a specific job, including shipping information, job status, and other important metadata.

Type: JobMetadata (p. 136) object

**SubJobMetadata (p. 42)**

Information about a specific job part (in the case of an export job), including shipping information, job status, and other important metadata.

Type: Array of JobMetadata (p. 136) objects
Errors
For information about the errors that are common to all actions, see Common Errors (p. 177).

InvalidResourceException
The specified resource can't be found. Check the information you provided in your last request, and try again.

HTTP Status Code: 400

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DescribeReturnShippingLabel
Service: AWS Snowball

Information on the shipping label of a Snow device that is being returned to AWS.

Request Syntax

```
{
  "JobId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 175).

The request accepts the following data in JSON format.

JobId (p. 47)

The automatically generated ID for a job, for example JID123e4567-e89b-12d3-a456-426655440000.

Type: String

Length Constraints: Fixed length of 39.

Pattern: (M|J)ID\[0-9a-f\]{8}-\[0-9a-f\]{4}-\[0-9a-f\]{4}-\[0-9a-f\]{4}-\[0-9a-f\]{12}

Required: Yes

Response Syntax

```
{
  "ExpirationDate": number,
  "ReturnShippingLabelURI": "string",
  "Status": "string"
}
```

Response Elements

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

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

ExpirationDate (p. 47)

The expiration date of the current return shipping label.

Type: Timestamp

ReturnShippingLabelURI (p. 47)

The pre-signed Amazon S3 URI used to download the return shipping label.

Type: String

Pattern: . *

**Status (p. 47)**

The status information of the task on a Snow device that is being returned to AWS.

Type: String

Valid Values: InProgress | TimedOut | Succeeded | Failed

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 177).

**ConflictException**

You get this exception when you call CreateReturnShippingLabel more than once when other requests are not completed.

HTTP Status Code: 400

**InvalidJobStateException**

The action can't be performed because the job's current state doesn't allow that action to be performed.

HTTP Status Code: 400

**InvalidResourceException**

The specified resource can't be found. Check the information you provided in your last request, and try again.

HTTP Status Code: 400

**See Also**

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetJobManifest

Service: AWS Snowball

Returns a link to an Amazon S3 presigned URL for the manifest file associated with the specified JobId value. You can access the manifest file for up to 60 minutes after this request has been made. To access the manifest file after 60 minutes have passed, you'll have to make another call to the GetJobManifest action.

The manifest is an encrypted file that you can download after your job enters the WithCustomer status. This is the only valid status for calling this API as the manifest and UnlockCode code value are used for securing your device and should only be used when you have the device. The manifest is decrypted by using the UnlockCode code value, when you pass both values to the Snow device through the Snowball client when the client is started for the first time.

As a best practice, we recommend that you don't save a copy of an UnlockCode value in the same location as the manifest file for that job. Saving these separately helps prevent unauthorized parties from gaining access to the Snow device associated with that job.

The credentials of a given job, including its manifest file and unlock code, expire 360 days after the job is created.

Request Syntax

```json
{
   "JobId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 175).

The request accepts the following data in JSON format.

JobId (p. 49)

The ID for a job that you want to get the manifest file for, for example JID123e4567-e89b-12d3-a456-42665440000.

Type: String

Length Constraints: Fixed length of 39.

Pattern: (M|J)ID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

Response Syntax

```json
{
   "ManifestURI": "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.

**ManifestURI (p. 49)**

The Amazon S3 presigned URL for the manifest file associated with the specified `JobId` value.

Type: String


Pattern: . *

**Errors**

For information about the errors that are common to all actions, see [Common Errors (p. 177)](#).

**InvalidJobStateException**

The action can't be performed because the job's current state doesn't allow that action to be performed.

HTTP Status Code: 400

**InvalidResourceException**

The specified resource can't be found. Check the information you provided in your last request, and try again.

HTTP Status Code: 400

**See Also**

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetJobUnlockCode

Service: AWS Snowball

Returns the UnlockCode code value for the specified job. A particular UnlockCode value can be accessed for up to 360 days after the associated job has been created.

The UnlockCode value is a 29-character code with 25 alphanumeric characters and 4 hyphens. This code is used to decrypt the manifest file when it is passed along with the manifest to the Snow device through the Snowball client when the client is started for the first time. The only valid status for calling this API is WithCustomer as the manifest and Unlock code values are used for securing your device and should only be used when you have the device.

As a best practice, we recommend that you don't save a copy of the UnlockCode in the same location as the manifest file for that job. Saving these separately helps prevent unauthorized parties from gaining access to the Snow device associated with that job.

Request Syntax

```
{
  "JobId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 175).

The request accepts the following data in JSON format.

JobId (p. 51)

The ID for the job that you want to get the UnlockCode value for, for example JID123e4567-e89b-12d3-a456-426655440000.

Type: String

Length Constraints: Fixed length of 39.

Pattern: (M|J)ID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

Response Syntax

```
{
  "UnlockCode": "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.
UnlockCode (p. 51)

The UnlockCode value for the specified job. The UnlockCode value can be accessed for up to 360 days after the job has been created.

Type: String


Pattern: .*

Errors

For information about the errors that are common to all actions, see Common Errors (p. 177).

InvalidJobStateException

The action can't be performed because the job's current state doesn't allow that action to be performed.

HTTP Status Code: 400

InvalidResourceException

The specified resource can't be found. Check the information you provided in your last request, and try again.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetSnowballUsage

Service: AWS Snowball

Returns information about the Snow Family service limit for your account, and also the number of Snow devices your account has in use.

The default service limit for the number of Snow devices that you can have at one time is 1. If you want to increase your service limit, contact AWS Support.

Response Syntax

```
{
    "SnowballLimit": number,
    "SnowballsInUse": 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.

**SnowballLimit (p. 53)**

The service limit for number of Snow devices this account can have at once. The default service limit is 1 (one).

Type: Integer

**SnowballsInUse (p. 53)**

The number of Snow devices that this account is currently using.

Type: Integer

Errors

For information about the errors that are common to all actions, see Common Errors (p. 177).

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetSoftwareUpdates
Service: AWS Snowball

Returns an Amazon S3 presigned URL for an update file associated with a specified JobId.

Request Syntax

```json
{
  "JobId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 175).

The request accepts the following data in JSON format.

JobId (p. 54)

The ID for a job that you want to get the software update file for, for example JID123e4567-e89b-12d3-a456-426655440000.

Type: String

Length Constraints: Fixed length of 39.

Pattern: ^M|J)ID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}$

Required: Yes

Response Syntax

```json
{
  "UpdatesURI": "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.

UpdatesURI (p. 54)

The Amazon S3 presigned URL for the update file associated with the specified JobId value. The software update will be available for 2 days after this request is made. To access an update after the 2 days have passed, you'll have to make another call to GetSoftwareUpdates.

Type: String


Pattern: ^.*$
Errors

For information about the errors that are common to all actions, see Common Errors (p. 177).

**InvalidJobStateException**

The action can't be performed because the job's current state doesn't allow that action to be performed.

HTTP Status Code: 400

**InvalidResourceException**

The specified resource can't be found. Check the information you provided in your last request, and try again.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListClusterJobs

Service: AWS Snowball

Returns an array of JobListEntry objects of the specified length. Each JobListEntry object is for a job in the specified cluster and contains a job's state, a job's ID, and other information.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 175).

The request accepts the following data in JSON format.

ClusterId (p. 56)

The 39-character ID for the cluster that you want to list, for example CID123e4567-e89b-12d3-a456-426655440000.

Type: String

Length Constraints: Fixed length of 39.

Pattern: CID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

MaxResults (p. 56)

The number of JobListEntry objects to return.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

NextToken (p. 56)

HTTP requests are stateless. To identify what object comes "next" in the list of JobListEntry objects, you have the option of specifying NextToken as the starting point for your returned list.

Type: String


Pattern: .*

Required: No

Response Syntax

```
{
```
"JobListEntries": [  
  {
    "CreationDate": number,
    "Description": "string",
    "IsMaster": boolean,
    "JobId": "string",
    "JobState": "string",
    "JobType": "string",
    "SnowballType": "string"
  
  },
  "NextToken": "string"
}

Response Elements

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

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

JobListEntries (p. 56)

Each JobListEntry object contains a job's state, a job's ID, and a value that indicates whether the job is a job part, in the case of export jobs.

Type: Array of JobEntry (p. 132) objects

NextToken (p. 56)

HTTP requests are stateless. If you use the automatically generated NextToken value in your next ListClusterJobsResult call, your list of returned jobs will start from this point in the array.

Type: String


Pattern: .*

Errors

For information about the errors that are common to all actions, see Common Errors (p. 177).

InvalidNextTokenException

The NextToken string was altered unexpectedly, and the operation has stopped. Run the operation without changing the NextToken string, and try again.

HTTP Status Code: 400

InvalidResourceException

The specified resource can't be found. Check the information you provided in your last request, and try again.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:
• AWS Command Line Interface
• AWS SDK for .NET
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
ListClusters
Service: AWS Snowball

Returns an array of ClusterListEntry objects of the specified length. Each ClusterListEntry object contains a cluster's state, a cluster's ID, and other important status information.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 175).

The request accepts the following data in JSON format.

**MaxResults (p. 59)**

The number of ClusterListEntry objects to return.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

**NextToken (p. 59)**

HTTP requests are stateless. To identify what object comes "next" in the list of ClusterListEntry objects, you have the option of specifying NextToken as the starting point for your returned list.

Type: String


Pattern: .*

Required: No

Response Syntax

```
{
  "ClusterListEntries": [
    {
      "ClusterId": "string",
      "ClusterState": "string",
      "CreationDate": number,
      "Description": "string"
    }
  ],
  "NextToken": "string"
}
```
Response Elements

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

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

**ClusterListEntries (p. 59)**

Each `ClusterListEntry` object contains a cluster’s state, a cluster’s ID, and other important status information.

Type: Array of `ClusterListEntry` (p. 121) objects

**NextToken (p. 59)**

HTTP requests are stateless. If you use the automatically generated `NextToken` value in your next `ClusterListEntry` call, your list of returned clusters will start from this point in the array.

Type: String


Pattern: .*

Errors

For information about the errors that are common to all actions, see Common Errors (p. 177).

**InvalidNextTokenException**

The `NextToken` string was altered unexpectedly, and the operation has stopped. Run the operation without changing the `NextToken` string, and try again.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListCompatibleImages

Service: AWS Snowball

This action returns a list of the different Amazon EC2 Amazon Machine Images (AMIs) that are owned by your AWS account that would be supported for use on a Snow device. Currently, supported AMIs are based on the CentOS 7 (x86_64) - with Updates HVM, Ubuntu Server 14.04 LTS (HVM), and Ubuntu 16.04 LTS - Xenial (HVM) images, available on the AWS Marketplace.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 175).

The request accepts the following data in JSON format.

MaxResults (p. 61)

The maximum number of results for the list of compatible images. Currently, a Snowball Edge device can store 10 AMIs.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

NextToken (p. 61)

HTTP requests are stateless. To identify what object comes "next" in the list of compatible images, you can specify a value for `NextToken` as the starting point for your list of returned images.

Type: String


Pattern: .*

Required: No

Response Syntax

```json
{
   "CompatibleImages": [
      {
         "AmiId": "string",
         "Name": "string"
      }
   ],
   "NextToken": "string"
}
```
Response Elements

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

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

**CompatibleImages (p. 61)**

A JSON-formatted object that describes a compatible AMI, including the ID and name for a Snow device AMI.

Type: Array of CompatibleImage (p. 126) objects

**NextToken (p. 61)**

Because HTTP requests are stateless, this is the starting point for your next list of returned images.

Type: String


Pattern: .*

Errors

For information about the errors that are common to all actions, see Common Errors (p. 177).

**Ec2RequestFailedException**

Your IAM user lacks the necessary Amazon EC2 permissions to perform the attempted action.

HTTP Status Code: 400

**InvalidNextTokenException**

The NextToken string was altered unexpectedly, and the operation has stopped. Run the operation without changing the NextToken string, and try again.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListJobs

Returns an array of JobListEntry objects of the specified length. Each JobListEntry object contains a job's state, a job's ID, and a value that indicates whether the job is a job part, in the case of export jobs. Calling this API action in one of the US regions will return jobs from the list of all jobs associated with this account in all US regions.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 175).

The request accepts the following data in JSON format.

**MaxResults (p. 63)**

The number of JobListEntry objects to return.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

**NextToken (p. 63)**

HTTP requests are stateless. To identify what object comes "next" in the list of JobListEntry objects, you have the option of specifying NextToken as the starting point for your returned list.

Type: String


Pattern: .*

Required: No

Response Syntax

```
{
   "JobListEntries": [
   {
      "CreationDate": number,
      "Description": "string",
      "IsMaster": boolean,
      "JobId": "string",
      "JobState": "string",
      "JobType": "string",
      "SnowballType": "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.

JobListEntries (p. 63)

Each JobListEntry object contains a job's state, a job's ID, and a value that indicates whether the job is a job part, in the case of export jobs.

Type: Array of JobListEntry (p. 132) objects

NextToken (p. 63)

HTTP requests are stateless. If you use this automatically generated NextToken value in your next ListJobs call, your returned JobListEntry objects will start from this point in the array.

Type: String


Pattern: .*

Errors

For information about the errors that are common to all actions, see Common Errors (p. 177).

InvalidNextTokenException

The NextToken string was altered unexpectedly, and the operation has stopped. Run the operation without changing the NextToken string, and try again.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListLongTermPricing

Service: AWS Snowball

Lists all long-term pricing types.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 175).

The request accepts the following data in JSON format.

MaxResults (p. 65)

The maximum number of ListLongTermPricing objects to return.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

NextToken (p. 65)

Because HTTP requests are stateless, this is the starting point for your next list of ListLongTermPricing to return.

Type: String


Pattern: .*

Required: No

Response Syntax

```json
{
    "LongTermPricingEntries": [
        {
            "CurrentActiveJob": "string",
            "IsLongTermPricingAutoRenew": boolean,
            "JobIds": [ "string" ],
            "LongTermPricingEndDate": number,
            "LongTermPricingId": "string",
            "LongTermPricingStartDate": number,
            "LongTermPricingStatus": "string",
            "LongTermPricingType": "string",
            "ReplacementJob": "string",
            "SnowballType": "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.

LongTermPricingEntries (p. 65)

Each LongTermPricingEntry object contains a status, ID, and other information about the
LongTermPricing type.

Type: Array of LongTermPricingListEntry (p. 143) objects

NextToken (p. 65)

Because HTTP requests are stateless, this is the starting point for your next list of returned
ListLongTermPricing list.

Type: String


Pattern: .*

Errors

For information about the errors that are common to all actions, see Common Errors (p. 177).

InvalidNextTokenException

The NextToken string was altered unexpectedly, and the operation has stopped. Run the operation
without changing the NextToken string, and try again.

HTTP Status Code: 400

InvalidResourceException

The specified resource can't be found. Check the information you provided in your last request, and
try again.

HTTP Status Code: 400

See Also

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

• AWS Command Line Interface
• AWS SDK for .NET
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
UpdateCluster
Service: AWS Snowball

While a cluster's ClusterState value is in the AwaitingQuorum state, you can update some of the information associated with a cluster. Once the cluster changes to a different job state, usually 60 minutes after the cluster being created, this action is no longer available.

Request Syntax

```json
{
  "AddressId": "string",
  "ClusterId": "string",
  "Description": "string",
  "ForwardingAddressId": "string",
  "Notification": {
    "JobStatesToNotify": [ "string" ],
    "NotifyAll": boolean,
    "SnsTopicARN": "string"
  },
  "OnDeviceServiceConfiguration": {
    "NFSOnDeviceService": {
      "StorageLimit": number,
      "StorageUnit": "string"
    },
    "TGWOnDeviceService": {
      "StorageLimit": number,
      "StorageUnit": "string"
    }
  },
  "Resources": {
    "Ec2AmiResources": [
      {
        "AmiId": "string",
        "SnowballAmiId": "string"
      }
    ],
    "LambdaResources": [
      {
        "EventTriggers": [
          {
            "EventResourceARN": "string"
          }
        ],
        "LambdaArn": "string"
      }
    ],
    "S3Resources": [
      {
        "BucketArn": "string",
        "KeyRange": {
          "BeginMarker": "string",
          "EndMarker": "string"
        },
        "TargetOnDeviceServices": [
          {
            "ServiceName": "string",
            "TransferOption": "string"
          }
        ]
      }
    ],
    "RoleARN": "string",
```
"ShippingOption": "string"
}

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 175).

The request accepts the following data in JSON format.

**AddressId (p. 68)**

The ID of the updated Address (p. 118) object.

Type: String

Length Constraints: Fixed length of 40.

Pattern: ADID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: No

**ClusterId (p. 68)**

The cluster ID of the cluster that you want to update, for example CID123e4567-e89b-12d3-a456-426655440000.

Type: String

Length Constraints: Fixed length of 39.

Pattern: CID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

**Description (p. 68)**

The updated description of this cluster.

Type: String


Pattern: .*

Required: No

**ForwardingAddressId (p. 68)**

This field is not supported in your region.

Type: String

Length Constraints: Fixed length of 40.

Pattern: ADID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: No

**Notification (p. 68)**

The new or updated Notification (p. 146) object.

Type: Notification (p. 146) object
**UpdateCluster**

**Required:** No

**OnDeviceServiceConfiguration (p. 68)**

Specifies the service or services on the Snow Family device that your transferred data will be exported from or imported into. AWS Snow Family device clusters support Amazon S3 and NFS (Network File System).

Type: `OnDeviceServiceConfiguration (p. 147)` object

**Resources (p. 68)**

The updated arrays of `JobResource (p. 140)` objects that can include updated `S3Resource (p. 148)` objects or `LambdaResource (p. 142)` objects.

Type: `JobResource (p. 140)` object

**RoleARN (p. 68)**

The new role Amazon Resource Name (ARN) that you want to associate with this cluster. To create a role ARN, use the `CreateRole` API action in AWS Identity and Access Management (IAM).

Type: `String`

Length Constraints: Maximum length of 255.

Pattern: `arn:aws.*:iam::[0-9]{12}:role/.*`

**ShippingOption (p. 68)**

The updated shipping option value of this cluster's `ShippingDetails (p. 150)` object.

Type: `String`

Valid Values: `SECOND_DAY` | `NEXT_DAY` | `EXPRESS` | `STANDARD`

**Response Elements**

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

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 177).

**Ec2RequestFailedException**

Your IAM user lacks the necessary Amazon EC2 permissions to perform the attempted action.

HTTP Status Code: 400

**InvalidInputCombinationException**

Job or cluster creation failed. One or more inputs were invalid. Confirm that the `CreateCluster:SnowballType (p. 18)` value supports your `CreateJob:JobType (p. 24)`, and try again.
HTTP Status Code: 400

**InvalidJobStateException**

The action can't be performed because the job's current state doesn't allow that action to be performed.

HTTP Status Code: 400

**InvalidResourceException**

The specified resource can't be found. Check the information you provided in your last request, and try again.

HTTP Status Code: 400

**KMSRequestFailedException**

The provided AWS Key Management Service key lacks the permissions to perform the specified CreateJob (p. 21) or UpdateJob (p. 72) action.

HTTP Status Code: 400

**See Also**

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
UpdateJob

While a job's JobState value is New, you can update some of the information associated with a job. Once the job changes to a different job state, usually within 60 minutes of the job being created, this action is no longer available.

Request Syntax

```json
{
    "AddressId": "string",
    "Description": "string",
    "ForwardingAddressId": "string",
    "JobId": "string",
    "Notification": {
        "JobStatesToNotify": [ "string" ],
        "NotifyAll": boolean,
        "SnsTopicARN": "string"
    },
    "OnDeviceServiceConfiguration": {
        "NFSOnDeviceService": {
            "StorageLimit": number,
            "StorageUnit": "string"
        },
        "TGWOnDeviceService": {
            "StorageLimit": number,
            "StorageUnit": "string"
        }
    },
    "Resources": {
        "Ec2AmiResources": [
            {
                "AmiId": "string",
                "SnowballAmiId": "string"
            }
        ],
        "LambdaResources": [
            {
                "EventTriggers": [
                    {
                        "EventResourceARN": "string"
                    }
                ],
                "LambdaArn": "string"
            }
        ],
        "S3Resources": [
            {
                "BucketArn": "string",
                "KeyRange": {
                    "BeginMarker": "string",
                    "EndMarker": "string"
                },
                "TargetOnDeviceServices": [
                    {
                        "ServiceName": "string",
                        "TransferOption": "string"
                    }
                ]
            }
        ],
        "RoleARN": "string",
```
"ShippingOption": "string",
"SnowballCapacityPreference": "string"
}

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 175).

The request accepts the following data in JSON format.

**AddressId (p. 72)**

The ID of the updated Address (p. 118) object.

Type: String

Length Constraints: Fixed length of 40.

Pattern: ADID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: No

**Description (p. 72)**

The updated description of this job's JobMetadata (p. 136) object.

Type: String


Pattern: .*

Required: No

**ForwardingAddressId (p. 72)**

This field is not supported in your region.

Type: String

Length Constraints: Fixed length of 40.

Pattern: ADID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: No

**JobId (p. 72)**

The job ID of the job that you want to update, for example JID123e4567-e89b-12d3-a456-426655440000.

Type: String

Length Constraints: Fixed length of 39.

Pattern: (M|J)ID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

**Notification (p. 72)**

The new or updated Notification (p. 146) object.

Type: Notification (p. 146) object
OnDeviceServiceConfiguration (p. 72)

Specifies the service or services on the Snow Family device that your transferred data will be exported from or imported into. AWS Snow Family supports Amazon S3 and NFS (Network File System) and the AWS Storage Gateway service Tape Gateway type.

Type: OnDeviceServiceConfiguration (p. 147) object

Resources (p. 72)

The updated JobResource object, or the updated JobResource (p. 140) object.

Type: JobResource (p. 140) object

RoleARN (p. 72)

The new role Amazon Resource Name (ARN) that you want to associate with this job. To create a role ARN, use the CreateRole AWS Identity and Access Management (IAM) API action.

Type: String

Length Constraints: Maximum length of 255.

Pattern: arn:aws.*:iam::[0-9]{12}:role/.*

ShippingOption (p. 72)

The updated shipping option value of this job's ShippingDetails (p. 150) object.

Type: String

Valid Values: SECOND_DAY | NEXT_DAY | EXPRESS | STANDARD

SnowballCapacityPreference (p. 72)

The updated SnowballCapacityPreference of this job's JobMetadata (p. 136) object. The 50 TB Snowballs are only available in the US regions.

For information about Snow Family device types, see Snow Family Devices and Capacity in the Snowcone User Guide or Snow Family Devices and Capacity in the Snowball Edge User Guide.

Type: String

Valid Values: T50 | T80 | T100 | T42 | T98 | T8 | T14 | NoPreference

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 177).
ClusterLimitExceededException

Job creation failed. Currently, clusters support five nodes. If you have fewer than five nodes for your cluster and you have more nodes to create for this cluster, try again and create jobs until your cluster has exactly five nodes.

HTTP Status Code: 400

Ec2RequestFailedException

Your IAM user lacks the necessary Amazon EC2 permissions to perform the attempted action.

HTTP Status Code: 400

InvalidInputCombinationException

Job or cluster creation failed. One or more inputs were invalid. Confirm that the CreateCluster:SnowballType (p. 18) value supports your CreateJob:JobType (p. 24), and try again.

HTTP Status Code: 400

InvalidJobStateException

The action can't be performed because the job's current state doesn't allow that action to be performed.

HTTP Status Code: 400

InvalidResourceException

The specified resource can't be found. Check the information you provided in your last request, and try again.

HTTP Status Code: 400

KMSRequestFailedException

The provided AWS Key Management Service key lacks the permissions to perform the specified CreateJob (p. 21) or UpdateJob (p. 72) action.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
UpdateJobShipmentState
Service: AWS Snowball

Updates the state when a shipment state changes to a different state.

Request Syntax

```json
{
  "JobId": "string",
  "ShipmentState": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 175).

The request accepts the following data in JSON format.

**JobId (p. 76)**

The job ID of the job whose shipment date you want to update, for example JID123e4567-e89b-12d3-a456-426655440000.

Type: String

Length Constraints: Fixed length of 39.

Pattern: (M|J)ID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

**ShipmentState (p. 76)**

The state of a device when it is being shipped.

Set to RECEIVED when the device arrives at your location.

Set to RETURNED when you have returned the device to AWS.

Type: String

Valid Values: RECEIVED | RETURNED

Required: Yes

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 177).

**InvalidJobStateException**

The action can't be performed because the job's current state doesn't allow that action to be performed.
HTTP Status Code: 400

InvalidResourceException

The specified resource can't be found. Check the information you provided in your last request, and try again.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
UpdateLongTermPricing

Service: AWS Snowball

Updates the long-term pricing type.

Request Syntax

```json
{
   "IsLongTermPricingAutoRenew": boolean,
   "LongTermPricingId": "string",
   "ReplacementJob": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 175).

The request accepts the following data in JSON format.

IsLongTermPricingAutoRenew (p. 78)

If set to `true`, specifies that the current long-term pricing type for the device should be automatically renewed before the long-term pricing contract expires.

Type: Boolean

Required: No

LongTermPricingId (p. 78)

The ID of the long-term pricing type for the device.

Type: String

Length Constraints: Fixed length of 41.

Pattern: LTPID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

ReplacementJob (p. 78)

Specifies that a device that is ordered with long-term pricing should be replaced with a new device.

Type: String

Length Constraints: Fixed length of 39.

Pattern: (M|J)ID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: No

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 177).
InvalidResourceException

The specified resource can't be found. Check the information you provided in your last request, and try again.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

AWS Snow Device Management

The following actions are supported by AWS Snow Device Management:

- CancelTask (p. 80)
- CreateTask (p. 82)
- DescribeDevice (p. 85)
- DescribeDeviceEc2Instances (p. 89)
- DescribeExecution (p. 92)
- DescribeTask (p. 95)
- ListDeviceResources (p. 98)
- ListDevices (p. 101)
- ListExecutions (p. 104)
- ListTagsForResource (p. 107)
- ListTasks (p. 109)
- TagResource (p. 112)
- UntagResource (p. 114)
CancelTask

Service: AWS Snow Device Management

Sends a cancel request for a specified task. You can cancel a task only if it's still in a QUEUED state. Tasks that are already running can't be cancelled.

Note
A task might still run if it's processed from the queue before the CancelTask operation changes the task's state.

Request Syntax

POST /task/taskId/cancel HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

taskId (p. 80)

The ID of the task that you are attempting to cancel. You can retrieve a task ID by using the ListTasks operation.

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
Content-type: application/json

{
  "taskId": "string"
}

Response Elements

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

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

taskId (p. 80)

The ID of the task that you are attempting to cancel.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 177).
AccessDeniedException

You don't have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that doesn't exist.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CreateTask
Service: AWS Snow Device Management

Instructs one or more devices to start a task, such as unlocking or rebooting.

Request Syntax

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

{
    "clientToken": "string",
    "command": {
        "reboot": {
        },
        "unlock": {
        }
    },
    "description": "string",
    "tags": {
        "string": "string"
    },
    "targets": [ "string" ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

**clientToken (p. 82)**

A token ensuring that the action is called only once with the specified details.

Type: String

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

Pattern: [!-~]+

Required: No

**command (p. 82)**

The task to be performed. Only one task is executed on a device at a time.

Type: Command (p. 157) object

Required: Yes

**description (p. 82)**

A description of the task and its targets.

Type: String

Pattern: [A-Za-z0-9 _.,!#]*
Required: No
tags (p. 82)
Optional metadata that you assign to a resource. You can use tags to categorize a resource in different ways, such as by purpose, owner, or environment.
Type: String to string map
Required: No
targets (p. 82)
A list of managed device IDs.
Type: Array of strings
Array Members: Minimum number of 1 item. Maximum number of 10 items.
Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
{
  "taskArn": "string",
  "taskId": "string"
}
```

Response Elements

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

taskArn (p. 83)
The Amazon Resource Name (ARN) of the task that you created.
Type: String
taskId (p. 83)
The ID of the task that you created.
Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 177).

AccessDeniedException
You don't have sufficient access to perform this action.
HTTP Status Code: 403
InternalServerException
An unexpected error occurred while processing the request.
HTTP Status Code: 500

ResourceNotFoundException
The request references a resource that doesn't exist.
HTTP Status Code: 404

ServiceQuotaExceededException
The request would cause a service quota to be exceeded.
HTTP Status Code: 402

ThrottlingException
The request was denied due to request throttling.
HTTP Status Code: 429

ValidationException
The input fails to satisfy the constraints specified by an AWS service.
HTTP Status Code: 400

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DescribeDevice
Service: AWS Snow Device Management

Checks device-specific information, such as the device type, software version, IP addresses, and lock status.

Request Syntax

```
POST /managed-device/managedDeviceId/describe HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

`managedDeviceId` (p. 85)

The ID of the device that you are checking the information of.

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "associatedWithJob": "string",
  "deviceCapacities": [
    {
      "available": number,
      "name": "string",
      "total": number,
      "unit": "string",
      "used": number
    }
  ],
  "deviceState": "string",
  "deviceType": "string",
  "lastReachedOutAt": number,
  "lastUpdatedAt": number,
  "managedDeviceArn": "string",
  "managedDeviceId": "string",
  "physicalNetworkInterfaces": [
    {
      "defaultGateway": "string",
      "ipAddress": "string",
      "ipAddressAssignment": "string",
      "macAddress": "string",
      "netmask": "string",
      "physicalConnectorType": "string",
      "physicalNetworkInterfaceId": "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.

associatedWithJob (p. 85)

The ID of the job used when ordering the device.

Type: String

deviceCapacities (p. 85)

The hardware specifications of the device.

Type: Array of Capacity (p. 156) objects

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

deviceState (p. 85)

The current state of the device.

Type: String

Valid Values: UNLOCKED | LOCKED | UNLOCKING

deviceType (p. 85)

The type of AWS Snow Family device.

Type: String

lastReachedOutAt (p. 85)

When the device last contacted the AWS Cloud. Indicates that the device is online.

Type: Timestamp

lastUpdatedAt (p. 85)

When the device last pushed an update to the AWS Cloud. Indicates when the device cache was refreshed.

Type: Timestamp

managedDeviceArn (p. 85)

The Amazon Resource Name (ARN) of the device.

Type: String

managedDeviceId (p. 85)

The ID of the device that you checked the information for.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 64.

physicalNetworkInterfaces (p. 85)
The network interfaces available on the device.
Type: Array of PhysicalNetworkInterface (p. 167) objects

software (p. 85)
The software installed on the device.
Type: SoftwareInformation (p. 172) object

tags (p. 85)
Optional metadata that you assign to a resource. You can use tags to categorize a resource in different ways, such as by purpose, owner, or environment.
Type: String to string map

Errors
For information about the errors that are common to all actions, see Common Errors (p. 177).

AccessDeniedException
You don't have sufficient access to perform this action.
HTTP Status Code: 403

InternalServerException
An unexpected error occurred while processing the request.
HTTP Status Code: 500

ResourceNotFoundException
The request references a resource that doesn't exist.
HTTP Status Code: 404

ThrottlingException
The request was denied due to request throttling.
HTTP Status Code: 429

ValidationException
The input fails to satisfy the constraints specified by an AWS service.
HTTP Status Code: 400

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

- AWS Command Line Interface
- AWS SDK for .NET
AWS Snowball API Reference
DescribeDevice

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DescribeDeviceEc2Instances

Service: AWS Snow Device Management

Checks the current state of the Amazon EC2 instances. The output is similar to describeDevice, but the results are sourced from the device cache in the AWS Cloud and include a subset of the available fields.

Request Syntax

```
POST /managed-device/managedDeviceId/resources/ec2/describe HTTP/1.1
Content-type: application/json

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

URI Request Parameters

The request uses the following URI parameters.

managedDeviceId (p. 89)

The ID of the managed device.

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

instanceIds (p. 89)

A list of instance IDs associated with the managed device.

Type: Array of strings

Required: Yes

Response Syntax

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

{
    "instances": [
        {
            "instance": {
                "amiLaunchIndex": number,
                "blockDeviceMappings": [ {
                    "deviceName": "string",
                    "ebs": { 
                        "attachTime": number,
                        "deleteOnTermination": boolean,
                        "status": "string",
                        
```
"volumeId": "string"
}
]
"cpuOptions": {
    "coreCount": number,
    "threadsPerCore": number
},
"createdAt": number,
"imageId": "string",
"instanceId": "string",
"instanceType": "string",
"privateIpAddress": "string",
"publicIpAddress": "string",
"rootDeviceName": "string",
"securityGroups": [
    {
        "groupId": "string",
        "groupName": "string"
    }
],
"state": {
    "code": number,
    "name": "string"
},
"updatedAt": number,
"lastUpdatedAt": 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.

instances (p. 89)

A list of structures containing information about each instance.

Type: Array of InstanceSummary (p. 166) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 177).

AccessDeniedException

You don't have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that doesn't exist.
HTTP Status Code: 404

_ThrottlingException_

The request was denied due to request throttling.

HTTP Status Code: 429

_ValidationException_

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

HTTP Status Code: 400

**See Also**

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DescribeExecution
Service: AWS Snow Device Management

Checks the status of a remote task running on one or more target devices.

Request Syntax

```
POST /task/taskId/executions/managedDeviceId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

**managedDeviceId (p. 92)**

The ID of the managed device.

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

Required: Yes

**taskId (p. 92)**

The ID of the task that the action is describing.

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
    "executionId": "string",
    "lastUpdatedAt": number,
    "managedDeviceId": "string",
    "startedAt": number,
    "state": "string",
    "taskId": "string"
}
```

Response Elements

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

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

**executionId (p. 92)**

The ID of the execution.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 64.

lastUpdatedAt (p. 92)
When the status of the execution was last updated.
Type: Timestamp

managedDeviceId (p. 92)
The ID of the managed device that the task is being executed on.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 64.

startedAt (p. 92)
When the execution began.
Type: Timestamp

state (p. 92)
The current state of the execution.
Type: String
Valid Values: QUEUED | IN_PROGRESS | CANCELED | FAILED | SUCCEEDED | REJECTED | TIMED_OUT

taskId (p. 92)
The ID of the task being executed on the device.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 64.

Errors
For information about the errors that are common to all actions, see Common Errors (p. 177).

AccessDeniedException
You don't have sufficient access to perform this action.
HTTP Status Code: 403

InternalServerException
An unexpected error occurred while processing the request.
HTTP Status Code: 500

ResourceNotFoundException
The request references a resource that doesn't exist.
HTTP Status Code: 404

ThrottlingException
The request was denied due to request throttling.
HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DescribeTask
Service: AWS Snow Device Management

Checks the metadata for a given task on a device.

Request Syntax

```
POST /task/taskId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

taskId (p. 95)

The ID of the task to be described.

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
    "completedAt": number,
    "createdAt": number,
    "description": "string",
    "lastUpdatedAt": number,
    "state": "string",
    "tags": {
        "string": "string"
    },
    "targets": [ "string" ],
    "taskArn": "string",
    "taskId": "string"
}
```

Response Elements

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

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

completedAt (p. 95)

When the task was completed.

Type: Timestamp
createdAt (p. 95)
When the CreateTask operation was called.
Type: Timestamp
description (p. 95)
The description provided of the task and managed devices.
Type: String
Pattern: [A-Za-z0-9 _.,!#]*
lastUpdatedAt (p. 95)
When the state of the task was last updated.
Type: Timestamp
state (p. 95)
The current state of the task.
Type: String
Valid Values: IN_PROGRESS | CANCELED | COMPLETED
tags (p. 95)
Optional metadata that you assign to a resource. You can use tags to categorize a resource in different ways, such as by purpose, owner, or environment.
Type: String to string map
targets (p. 95)
The managed devices that the task was sent to.
Type: Array of strings
Array Members: Minimum number of 1 item. Maximum number of 10 items.
taskArn (p. 95)
The Amazon Resource Name (ARN) of the task.
Type: String
taskId (p. 95)
The ID of the task.
Type: String

Errors
For information about the errors that are common to all actions, see Common Errors (p. 177).

AccessDeniedException
You don't have sufficient access to perform this action.
HTTP Status Code: 403
**InternalServerException**

An unexpected error occurred while processing the request.

HTTP Status Code: 500

**ResourceNotFoundException**

The request references a resource that doesn't exist.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

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

HTTP Status Code: 400

**See Also**

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListDeviceResources
Service: AWS Snow Device Management

Returns a list of the AWS resources available for a device. Currently, Amazon EC2 instances are the only supported resource type.

Request Syntax

```
GET /managed-device/managedDeviceId/resources?
   maxResults=maxResults&nextToken=nextToken&type=type HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

**managedDeviceId (p. 98)**

The ID of the managed device that you are listing the resources of.

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

Required: Yes

**maxResults (p. 98)**

The maximum number of resources per page.

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

**nextToken (p. 98)**

A pagination token to continue to the next page of results.


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

**type (p. 98)**

A structure used to filter the results by type of resource.


Request Body

The request does not have a request body.

Response Syntax

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

{   
   "nextToken": "string",
   "resources": [
      {   
         "arn": "string",
         "id": "string",
         "resourceType": "string"
      }
   ]
}
```
Response Elements

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

nextToken (p. 98)

A pagination token to continue to the next page of results.

Type: String


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

resources (p. 98)

A structure defining the resource’s type, Amazon Resource Name (ARN), and ID.

Type: Array of ResourceSummary (p. 170) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 177).

AccessDeniedException

You don’t have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that doesn’t exist.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:
• AWS Command Line Interface
• AWS SDK for .NET
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
ListDevices

Service: AWS Snow Device Management

Returns a list of all devices on your AWS account that have AWS Snow Device Management enabled in the AWS Region where the command is run.

Request Syntax

GET /managed-devices?jobId=jobId&maxResults=maxResults&nextToken=nextToken HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

jobId (p. 101)

The ID of the job used to order the device.

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

maxResults (p. 101)

The maximum number of devices to list per page.

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

nextToken (p. 101)

A pagination token to continue to the next page of results.


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

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
Content-type: application/json

{  "devices": [  {  "associatedWithJob": "string",  "managedDeviceArn": "string",  "managedDeviceId": "string",  "tags": { [a-zA-Z0-9+/=]*  "string": "string"  }  }  ],  "nextToken": "string"  }

101
Response Elements

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

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

**devices (p. 101)**

A list of device structures that contain information about the device.

Type: Array of DeviceSummary (p. 159) objects

**nextToken (p. 101)**

A pagination token to continue to the next page of devices.

Type: String


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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 177).

**AccessDeniedException**

You don't have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred while processing the request.

HTTP Status Code: 500

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

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

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListExecutions
Service: AWS Snow Device Management

Returns the status of tasks for one or more target devices.

Request Syntax

```
GET /executions?maxResults=\{\text{maxResults}\}&nextToken=\{\text{nextToken}\}&state=\{\text{state}\}&taskId=\{\text{taskId}\}
HTTP/1.1
```

### URI Request Parameters

The request uses the following URI parameters.

- **maxResults (p. 104)**
  - The maximum number of tasks to list per page.
  - Valid Range: Minimum value of 1. Maximum value of 100.

- **nextToken (p. 104)**
  - A pagination token to continue to the next page of tasks.
  - Pattern: \[\text{a-zA-Z0-9+/=]*\]

- **state (p. 104)**
  - A structure used to filter the tasks by their current state.
  - Valid Values: QUEUED | IN_PROGRESS | CANCELED | FAILED | SUCCEEDED | REJECTED | TIMED_OUT

- **taskId (p. 104)**
  - The ID of the task.
  - Length Constraints: Minimum length of 1. Maximum length of 64.
  - Required: Yes

### Request Body

The request does not have a request body.

### Response Syntax

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

{
   "executions": [\n       {
           "executionId": "\text{string}\",
           "managedDeviceId": "\text{string}\",
           "state": "\text{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.

executions (p. 104)

A list of executions. Each execution contains the task ID, the device that the task is executing on, the execution ID, and the status of the execution.

Type: Array of ExecutionSummary (p. 161) objects

nextToken (p. 104)

A pagination token to continue to the next page of executions.

Type: String


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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 177).

AccessDeniedException

You don't have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that doesn't exist.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400
See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListTagsForResource
Service: AWS Snow Device Management

Returns a list of tags for a managed device or task.

Request Syntax

GET /tags/resourceArn HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

resourceArn (p. 107)

The Amazon Resource Name (ARN) of the device or task.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
Content-type: application/json

{  
   "tags": {  
      "string" : "string"
   }
}

Response Elements

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

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

tags (p. 107)

The list of tags for the device or task.

Type: String to string map

Errors

For information about the errors that are common to all actions, see Common Errors (p. 177).

InternalServerException

An unexpected error occurred while processing the request.
HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that doesn't exist.

HTTP Status Code: 404

ValidationException

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

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListTasks
Service: AWS Snow Device Management

Returns a list of tasks that can be filtered by state.

Request Syntax

GET /tasks?maxResults=maxResults&nextToken=nextToken&state=state HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

maxResults (p. 109)
The maximum number of tasks per page.
Valid Range: Minimum value of 1. Maximum value of 100.

nextToken (p. 109)
A pagination token to continue to the next page of tasks.
Pattern: [a-zA-Z0-9+/=]*

state (p. 109)
A structure used to filter the list of tasks.
Valid Values: IN_PROGRESS | CANCELED | COMPLETED

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "tasks": [
    {
      "state": "string",
      "tags": {
        "string" : "string"
      },
      "taskId": "string"
    }
  ]
}

Response Elements

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

**nextToken (p. 109)**

A pagination token to continue to the next page of tasks.

Type: String


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

**tasks (p. 109)**

A list of task structures containing details about each task.

Type: Array of TaskSummary (p. 173) objects

### Errors

For information about the errors that are common to all actions, see [Common Errors (p. 177)](#).

**AccessDeniedException**

You don't have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred while processing the request.

HTTP Status Code: 500

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

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

HTTP Status Code: 400

### See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
TagResource
Service: AWS Snow Device Management

Adds or replaces tags on a device or task.

Request Syntax

```
POST /tags/{resourceArn} HTTP/1.1
Content-type: application/json

{
  "tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn (p. 112)
The Amazon Resource Name (ARN) of the device or task.
Required: Yes

Request Body

The request accepts the following data in JSON format.

tags (p. 112)
Optional metadata that you assign to a resource. You can use tags to categorize a resource in different ways, such as by purpose, owner, or environment.

Type: String to string map
Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 177).

InternalServerException
An unexpected error occurred while processing the request.
HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that doesn’t exist.

HTTP Status Code: 404

ValidationException

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

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
UntagResource
Service: AWS Snow Device Management
Removes a tag from a device or task.

Request Syntax

```
DELETE /tags/resourceArn?tagKeys=tagKeys HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

**resourceArn (p. 114)**

The Amazon Resource Name (ARN) of the device or task.

Required: Yes

**tagKeys (p. 114)**

Optional metadata that you assign to a resource. You can use tags to categorize a resource in different ways, such as by purpose, owner, or environment.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 177).

**InternalServerException**

An unexpected error occurred while processing the request.

HTTP Status Code: 500

**ResourceNotFoundException**

The request references a resource that doesn't exist.

HTTP Status Code: 404

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.
HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
Data Types

The following data types are supported by AWS Snowball:

- Address (p. 118)
- ClusterListEntry (p. 121)
- ClusterMetadata (p. 123)
- CompatibleImage (p. 126)
- DataTransfer (p. 127)
- DeviceConfiguration (p. 128)
- Ec2AmiResource (p. 129)
- EventTriggerDefinition (p. 130)
- INDTaxDocuments (p. 131)
- JobListEntry (p. 132)
- JobLogs (p. 134)
- JobMetadata (p. 136)
- JobResource (p. 140)
- KeyRange (p. 141)
- LambdaResource (p. 142)
- LongTermPricingListEntry (p. 143)
- NFSOnDeviceServiceConfiguration (p. 145)
- Notification (p. 146)
- OnDeviceServiceConfiguration (p. 147)
- S3Resource (p. 148)
- Shipment (p. 149)
- ShippingDetails (p. 150)
- SnowconeDeviceConfiguration (p. 151)
- TargetOnDeviceService (p. 152)
- TaxDocuments (p. 153)
- TGWOnDeviceServiceConfiguration (p. 154)
- WirelessConnection (p. 155)

The following data types are supported by AWS Snow Device Management:

- Capacity (p. 156)
- Command (p. 157)
- CpuOptions (p. 158)
- DeviceSummary (p. 159)
- EbsInstanceBlockDevice (p. 160)
- ExecutionSummary (p. 161)
- Instance (p. 162)
- InstanceBlockDeviceMapping (p. 164)
- InstanceState (p. 165)
- InstanceSummary (p. 166)
The following data types are supported by AWS Snowball:

- Address (p. 118)
- ClusterListEntry (p. 121)
- ClusterMetadata (p. 123)
- CompatibleImage (p. 126)
- DataTransfer (p. 127)
- DeviceConfiguration (p. 128)
- Ec2AmiResource (p. 129)
- EventTriggerDefinition (p. 130)
- INDTaxDocuments (p. 131)
- JobListEntry (p. 132)
- JobLogs (p. 134)
- JobMetadata (p. 136)
- JobResource (p. 140)
- KeyRange (p. 141)
- LambdaResource (p. 142)
- LongTermPricingListEntry (p. 143)
- NFSOnDeviceServiceConfiguration (p. 145)
- Notification (p. 146)
- OnDeviceServiceConfiguration (p. 147)
- S3Resource (p. 148)
- Shipment (p. 149)
- ShippingDetails (p. 150)
- SnowconeDeviceConfiguration (p. 151)
- TargetOnDeviceService (p. 152)
- TaxDocuments (p. 153)
- TGWOnDeviceServiceConfiguration (p. 154)
- WirelessConnection (p. 155)
**Address**

Service: AWS Snowball

The address that you want the Snow device(s) associated with a specific job to be shipped to. Addresses are validated at the time of creation. The address you provide must be located within the serviceable area of your region. Although no individual elements of the Address are required, if the address is invalid or unsupported, then an exception is thrown.

**Contents**

**AddressId**

The unique ID for an address.

Type: String

Length Constraints: Fixed length of 40.

Pattern: ADID[0-9-a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: No

**City**

The city in an address that a Snow device is to be delivered to.

Type: String


Pattern: . *

Required: No

**Company**

The name of the company to receive a Snow device at an address.

Type: String


Pattern: . *

Required: No

**Country**

The country in an address that a Snow device is to be delivered to.

Type: String


Pattern: . *

Required: No

**IsRestricted**

This field is not supported in your region.

Type: Boolean
Required: No

**Landmark**

This field is no longer used and the value is ignored.

Type: String


Pattern: . *

Required: No

**Name**

The name of a person to receive a Snow device at an address.

Type: String


Pattern: . *

Required: No

**PhoneNumber**

The phone number associated with an address that a Snow device is to be delivered to.

Type: String


Pattern: . *

Required: No

**PostalCode**

The postal code in an address that a Snow device is to be delivered to.

Type: String


Pattern: . *

Required: No

**PrefectureOrDistrict**

This field is no longer used and the value is ignored.

Type: String


Pattern: . *

Required: No

**StateOrProvince**

The state or province in an address that a Snow device is to be delivered to.

Type: String
Address

Pattern: . *
Required: No

Street1
The first line in a street address that a Snow device is to be delivered to.
Type: String
Pattern: . *
Required: No

Street2
The second line in a street address that a Snow device is to be delivered to.
Type: String
Pattern: . *
Required: No

Street3
The third line in a street address that a Snow device is to be delivered to.
Type: String
Pattern: . *
Required: No

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
ClusterListEntry
Service: AWS Snowball

Contains a cluster's state, a cluster's ID, and other important information.

Contents

ClusterId

The 39-character ID for the cluster that you want to list, for example CID123e4567-e89b-12d3-a456-426655440000.

Type: String
Pattern: .*
Required: No

ClusterState

The current state of this cluster. For information about the state of a specific node, see JobListEntry:JobState (p. 132).

Type: String
Valid Values: AwaitingQuorum | Pending | InUse | Complete | Cancelled
Required: No

CreationDate

The creation date for this cluster.

Type: Timestamp
Required: No

Description

Defines an optional description of the cluster, for example Environmental Data Cluster-01.

Type: String
Pattern: .*
Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
ClusterMetadata
Service: AWS Snowball
Contains metadata about a specific cluster.

Contents

AddressId
The automatically generated ID for a specific address.
Type: String
Length Constraints: Fixed length of 40.
Pattern: ADID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}
Required: No

ClusterId
The automatically generated ID for a cluster.
Type: String
Pattern: .*
Required: No

ClusterState
The current status of the cluster.
Type: String
Valid Values: AwaitingQuorum | Pending | InUse | Complete | Cancelled
Required: No

CreationDate
The creation date for this cluster.
Type: Timestamp
Required: No

Description
The optional description of the cluster.
Type: String
Pattern: .*
Required: No

ForwardingAddressId
This field is not supported in your region.
ClusterMetadata

- **Type**: String
- **Length Constraints**: Fixed length of 40.
- **Pattern**: `ADID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`
- **Required**: No

**JobType**

The type of job for this cluster. Currently, the only job type supported for clusters is `LOCAL_USE`.

- **Type**: String
- **Valid Values**: `IMPORT` | `EXPORT` | `LOCAL_USE`
- **Required**: No

**KmsKeyARN**

The Amazon Resource Name (ARN) associated with this cluster. This ARN was created using the `CreateKey` API action in AWS Key Management Service (AWS KMS).

- **Type**: String
- **Length Constraints**: Maximum length of 255.
- **Pattern**: `arn:aws.*:kms:*:[0-9]{12}:key/*`
- **Required**: No

**Notification**

The Amazon Simple Notification Service (Amazon SNS) notification settings for this cluster.

- **Type**: `Notification (p. 146)` object
- **Required**: No

**OnDeviceServiceConfiguration**

Represents metadata and configuration settings for services on an AWS Snow Family device.

- **Type**: `OnDeviceServiceConfiguration (p. 147)` object
- **Required**: No

**Resources**

The arrays of `JobResource (p. 140)` objects that can include updated `S3Resource (p. 148)` objects or `LambdaResource (p. 142)` objects.

- **Type**: `JobResource (p. 140)` object
- **Required**: No

**RoleARN**

The role ARN associated with this cluster. This ARN was created using the `CreateRole` API action in AWS Identity and Access Management (IAM).

- **Type**: String
- **Length Constraints**: Maximum length of 255.
- **Pattern**: `arn:aws.*:iam::*:[0-9]{12}:role/*`
ShippingOption

The shipping speed for each node in this cluster. This speed doesn't dictate how soon you'll get each device, rather it represents how quickly each device moves to its destination while in transit. Regional shipping speeds are as follows:

- In Australia, you have access to express shipping. Typically, devices shipped express are delivered in about a day.
- In the European Union (EU), you have access to express shipping. Typically, Snow devices shipped express are delivered in about a day. In addition, most countries in the EU have access to standard shipping, which typically takes less than a week, one way.
- In India, Snow devices are delivered in one to seven days.
- In the US, you have access to one-day shipping and two-day shipping.

Type: String

Valid Values: SECOND_DAY | NEXT_DAY | EXPRESS | STANDARD

Required: No

SnowballType

The type of Snowcone device to use for this cluster.

**Note**

For cluster jobs, AWS Snow Family currently supports only the EDGE device type.

Type: String

Valid Values: STANDARD | EDGE | EDGE_C | EDGE_CG | EDGE_S | SNC1_HDD | SNC1_SSD

Required: No

TaxDocuments

The tax documents required in your AWS Region.

Type: TaxDocuments (p. 153) object

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
CompatibleImage
Service: AWS Snowball

A JSON-formatted object that describes a compatible Amazon Machine Image (AMI), including the ID and name for a Snow device AMI. This AMI is compatible with the device's physical hardware requirements, and it should be able to be run in an SBE1 instance on the device.

Contents

AmiId

The unique identifier for an individual Snow device AMI.

Type: String


Pattern: .*

Required: No

Name

The optional name of a compatible image.

Type: String


Pattern: .*

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
DataTransfer
Service: AWS Snowball

Defines the real-time status of a Snow device's data transfer while the device is at AWS. This data is only available while a job has a JobState value of InProgress, for both import and export jobs.

Contents

**BytesTransferred**

The number of bytes transferred between a Snow device and Amazon S3.

Type: Long

Required: No

**ObjectsTransferred**

The number of objects transferred between a Snow device and Amazon S3.

Type: Long

Required: No

**TotalBytes**

The total bytes of data for a transfer between a Snow device and Amazon S3. This value is set to 0 (zero) until all the keys that will be transferred have been listed.

Type: Long

Required: No

**TotalObjects**

The total number of objects for a transfer between a Snow device and Amazon S3. This value is set to 0 (zero) until all the keys that will be transferred have been listed.

Type: Long

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
DeviceConfiguration
Service: AWS Snowball

The container for SnowconeDeviceConfiguration.

Contents

SnowconeDeviceConfiguration

Returns information about the device configuration for an AWS Snowcone job.

Type: SnowconeDeviceConfiguration (p. 151) object

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
Ec2AmiResource
Service: AWS Snowball

A JSON-formatted object that contains the IDs for an Amazon Machine Image (AMI), including the Amazon EC2 AMI ID and the Snow device AMI ID. Each AMI has these two IDs to simplify identifying the AMI in both the AWS Cloud and on the device.

Contents

AmiId
The ID of the AMI in Amazon EC2.
Type: String
Pattern: (ami-[0-9a-f]{8})|(ami-[0-9a-f]{17})
Required: Yes

SnowballAmiId
The ID of the AMI on the Snow device.
Type: String
Pattern: .*
Required: No

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
EventTriggerDefinition

Service: AWS Snowball

The container for the EventTriggerDefinition:EventResourceARN (p. 130).

Contents

EventResourceARN

The Amazon Resource Name (ARN) for any local Amazon S3 resource that is an AWS Lambda function's event trigger associated with this job.

Type: String

Length Constraints: Maximum length of 255.

Pattern: arn:aws:*:*

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
INDTaxDocuments
Service: AWS Snowball

The tax documents required in AWS Region in India.

Contents

GSTIN
The Goods and Services Tax (GST) documents required in AWS Region in India.

Type: String

Length Constraints: Fixed length of 15.

Pattern: \d{2}[A-Z]{5}\d{4}[A-Z]{1}[A-Z]\d{1}[A-Z]\d{1}[Z]{1}[A-Z]\d{1}

Required: No

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
JobListEntry

Service: AWS Snowball

Each JobListEntry object contains a job's state, a job's ID, and a value that indicates whether the job is a job part, in the case of an export job.

Contents

CreationDate

The creation date for this job.

Type: Timestamp

Required: No

Description

The optional description of this specific job, for example Important Photos 2016-08-11.

Type: String


Pattern: .*

Required: No

IsMaster

A value that indicates that this job is a main job. A main job represents a successful request to create an export job. Main jobs aren't associated with any Snowballs. Instead, each main job will have at least one job part, and each job part is associated with a Snowball. It might take some time before the job parts associated with a particular main job are listed, because they are created after the main job is created.

Type: Boolean

Required: No

JobId

The automatically generated ID for a job, for example JID123e4567-e89b-12d3-a456-42665440000.

Type: String


Pattern: .*

Required: No

JobState

The current state of this job.

Type: String

Valid Values: New | PreparingAppliance | PreparingShipment | InTransitToCustomer | WithCustomer | InTransitToAWS | WithAWSSortingFacility | WithAWS | InProgress | Complete | Cancelled | Listing | Pending
Required: No

**JobType**

The type of job.

Type: String

Valid Values: IMPORT | EXPORT | LOCAL_USE

Required: No

**SnowballType**

The type of device used with this job.

Type: String

Valid Values: STANDARD | EDGE | EDGE_C | EDGE_CG | EDGE_S | SNC1_HDD | SNC1_SSD

Required: No

**See Also**

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
JobLogs
Service: AWS Snowball

Contains job logs. Whenever a Snow device is used to import data into or export data out of Amazon S3, you'll have the option of downloading a PDF job report. Job logs are returned as a part of the response syntax of the DescribeJob action in the JobMetadata data type. The job logs can be accessed for up to 60 minutes after this request has been made. To access any of the job logs after 60 minutes have passed, you'll have to make another call to the DescribeJob action.

For import jobs, the PDF job report becomes available at the end of the import process. For export jobs, your job report typically becomes available while the Snow device for your job part is being delivered to you.

The job report provides you insight into the state of your Amazon S3 data transfer. The report includes details about your job or job part for your records.

For deeper visibility into the status of your transferred objects, you can look at the two associated logs: a success log and a failure log. The logs are saved in comma-separated value (CSV) format, and the name of each log includes the ID of the job or job part that the log describes.

Contents

JobCompletionReportURI

A link to an Amazon S3 presigned URL where the job completion report is located.

Type: String
Pattern: .*
Required: No

JobFailureLogURI

A link to an Amazon S3 presigned URL where the job failure log is located.

Type: String
Pattern: .*
Required: No

JobSuccessLogURI

A link to an Amazon S3 presigned URL where the job success log is located.

Type: String
Pattern: .*
Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
JobMetadata

Service: AWS Snowball

Contains information about a specific job including shipping information, job status, and other important metadata. This information is returned as a part of the response syntax of the DescribeJob action.

Contents

AddressId

The ID for the address that you want the Snow device shipped to.

Type: String

Length Constraints: Fixed length of 40.

Pattern: ADID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: No

ClusterId

The 39-character ID for the cluster, for example CID123e4567-e89b-12d3-a456-426655440000.

Type: String


Pattern: .*

Required: No

CreationDate

The creation date for this job.

Type: Timestamp

Required: No

DataTransferProgress

A value that defines the real-time status of a Snow device's data transfer while the device is at AWS. This data is only available while a job has a JobState value of InProgress, for both import and export jobs.

Type: DataTransfer (p. 127) object

Required: No

Description

The description of the job, provided at job creation.

Type: String


Pattern: .*

Required: No

DeviceConfiguration

The container for SnowconeDeviceConfiguration.
Type: `DeviceConfiguration (p. 128)` object

Required: No

**ForwardingAddressId**

This field is not supported in your region.

Type: String

Length Constraints: Fixed length of 40.

Pattern: `ADID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

**JobId**

The automatically generated ID for a job, for example `JID123e4567-e89b-12d3-a456-426655440000`.

Type: String


Pattern: `.*`

Required: No

**JobLogInfo**

Links to Amazon S3 presigned URLs for the job report and logs. For import jobs, the PDF job report becomes available at the end of the import process. For export jobs, your job report typically becomes available while the Snow device for your job part is being delivered to you.

Type: `JobLogs (p. 134)` object

Required: No

**JobState**

The current status of the jobs.

Type: String

Valid Values: New | PreparingAppliance | PreparingShipment | InTransitToCustomer | WithCustomer | InTransitToAWS | WithAWSSortingFacility | WithAWS | InProgress | Complete | Cancelled | Listing | Pending

Required: No

**JobType**

The type of job.

Type: String

Valid Values: IMPORT | EXPORT | LOCAL_USE

Required: No

**KmsKeyARN**

The Amazon Resource Name (ARN) for the AWS Key Management Service (AWS KMS) key associated with this job. This ARN was created using the `CreateKey` API action in AWS KMS.
Type: String
Length Constraints: Maximum length of 255.
Pattern: arn:aws:*:kms:*:[0-9]{12}:key/.*
Required: No

LongTermPricingId
The ID of the long-term pricing type for the device.
Type: String
Length Constraints: Fixed length of 41.
Pattern: LTPID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}
Required: No

Notification
The Amazon Simple Notification Service (Amazon SNS) notification settings associated with a specific job. The Notification object is returned as a part of the response syntax of the DescribeJob action in the JobMetadata data type.
Type: Notification (p. 146) object
Required: No

OnDeviceServiceConfiguration
Represents metadata and configuration settings for services on an AWS Snow Family device.
Type: OnDeviceServiceConfiguration (p. 147) object
Required: No

RemoteManagement
Allows you to securely operate and manage Snowcone devices remotely from outside of your internal network. When set to INSTALLED_AUTOSTART, remote management will automatically be available when the device arrives at your location. Otherwise, you need to use the Snowball Client to manage the device.
Type: String
Valid Values: INSTALLED_ONLY | INSTALLED_AUTOSTART
Required: No

Resources
An array of S3Resource objects. Each S3Resource object represents an Amazon S3 bucket that your transferred data will be exported from or imported into.
Type: JobResource (p. 140) object
Required: No

RoleARN
The role ARN associated with this job. This ARN was created using the CreateRole API action in AWS Identity and Access Management.
Type: String
Length Constraints: Maximum length of 255.
Pattern: arn:aws:*:iam::*[0-9]{12}:role/.*
Required: No

ShippingDetails
A job's shipping information, including inbound and outbound tracking numbers and shipping speed options.
Type: ShippingDetails (p. 150) object
Required: No

SnowballCapacityPreference
The Snow device capacity preference for this job, specified at job creation. In US regions, you can choose between 50 TB and 80 TB Snowballs. All other regions use 80 TB capacity Snowballs.
For information about Snow Family device types, see Snow Family Devices and Capacity in the Snowcone User Guide or Snow Family Devices and Capacity in the Snowball Edge User Guide.
Type: String
Valid Values: T50 | T80 | T100 | T42 | T98 | T8 | T14 | NoPreference
Required: No

SnowballType
The type of device used with this job.
Type: String
Valid Values: STANDARD | EDGE | EDGE_C | EDGE_CG | EDGE_S | SNC1_HDD | SNC1_SSD
Required: No

TaxDocuments
The metadata associated with the tax documents required in your AWS Region.
Type: TaxDocuments (p. 153) object
Required: No

See Also
For more information about using this API in one of the language-specific AWS SDKs, see the following:
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
**JobResource**

Service: AWS Snowball

Contains an array of AWS resource objects. Each object represents an Amazon S3 bucket, an AWS Lambda function, or an Amazon Machine Image (AMI) based on Amazon EC2 that is associated with a particular job.

**Contents**

**Ec2AmiResources**

The Amazon Machine Images (AMIs) associated with this job.

Type: Array of Ec2AmiResource (p. 129) objects

Required: No

**LambdaResources**

The Python-language Lambda functions for this job.

Type: Array of LambdaResource (p. 142) objects

Required: No

**S3Resources**

An array of S3Resource objects.

Type: Array of S3Resource (p. 148) objects

Required: No

**See Also**

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
KeyRange

Service: AWS Snowball

Contains a key range. For export jobs, a S3Resource object can have an optional KeyRange value. The length of the range is defined at job creation, and has either an inclusive BeginMarker, an inclusive EndMarker, or both. Ranges are UTF-8 binary sorted.

Contents

BeginMarker

The key that starts an optional key range for an export job. Ranges are inclusive and UTF-8 binary sorted.

Type: String


Pattern: .*

Required: No

EndMarker

The key that ends an optional key range for an export job. Ranges are inclusive and UTF-8 binary sorted.

Type: String


Pattern: .*

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
LambdaResource
Service: AWS Snowball

Contents

EventTriggers
The array of ARNs for S3Resource (p. 148) objects to trigger the LambdaResource (p. 142) objects associated with this job.
Type: Array of EventTriggerDefinition (p. 130) objects
Required: No

LambdaArn
An Amazon Resource Name (ARN) that represents an AWS Lambda function to be triggered by PUT object actions on the associated local Amazon S3 resource.
Type: String
Length Constraints: Maximum length of 255.
Pattern: arn:aws.*:*
Required: No

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
LongTermPricingListEntry

Service: AWS Snowball

Each LongTermPricingListEntry object contains information about a long-term pricing type.

Contents

CurrentActiveJob

The current active jobs on the device the long-term pricing type.

Type: String

Length Constraints: Fixed length of 39.

Pattern: (M|J)ID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: No

IsLongTermPricingAutoRenew

If set to true, specifies that the current long-term pricing type for the device should be automatically renewed before the long-term pricing contract expires.

Type: Boolean

Required: No

JobIds

The IDs of the jobs that are associated with a long-term pricing type.

Type: Array of strings

Length Constraints: Fixed length of 39.

Pattern: (M|J)ID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: No

LongTermPricingEndDate

The end date the long-term pricing contract.

Type: Timestamp

Required: No

LongTermPricingId

The ID of the long-term pricing type for the device.

Type: String

Length Constraints: Fixed length of 41.

Pattern: LTPID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: No

LongTermPricingStartDate

The start date of the long-term pricing contract.
Type: Timestamp
Required: No

**LongTermPricingStatus**
The status of the long-term pricing type.
Type: String
Pattern: . *
Required: No

**LongTermPricingType**
The type of long-term pricing that was selected for the device.
Type: String
Valid Values: OneYear | ThreeYear
Required: No

**ReplacementJob**
A new device that replaces a device that is ordered with long-term pricing.
Type: String
Length Constraints: Fixed length of 39.
Pattern: (M|J)ID[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}
Required: No

**SnowballType**
The type of Snow Family devices associated with this long-term pricing job.
Type: String
Valid Values: STANDARD | EDGE | EDGE_C | EDGE_CG | EDGE_S | SNC1_HDD | SNC1_SSD
Required: No

**See Also**
For more information about using this API in one of the language-specific AWS SDKs, see the following:
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
NFSOnDeviceServiceConfiguration

Service: AWS Snowball

An object that represents the metadata and configuration settings for the NFS (Network File System) service on an AWS Snow Family device.

Contents

StorageLimit

The maximum NFS storage for one Snow Family device.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

StorageUnit

The scale unit of the NFS storage on the device.

Valid values: TB.

Type: String

Valid Values: TB

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
Notification

Service: AWS Snowball

The Amazon Simple Notification Service (Amazon SNS) notification settings associated with a specific job. The Notification object is returned as a part of the response syntax of the DescribeJob action in the JobMetadata data type.

When the notification settings are defined during job creation, you can choose to notify based on a specific set of job states using the JobStatesToNotify array of strings, or you can specify that you want to have Amazon SNS notifications sent out for all job states with NotifyAll set to true.

Contents

JobStatesToNotify

The list of job states that will trigger a notification for this job.

Type: Array of strings

Valid Values: New | PreparingAppliance | PreparingShipment | InTransitToCustomer | WithCustomer | InTransitToAWS | WithAWSSortingFacility | WithAWS | InProgress | Complete | Cancelled | Listing | Pending

Required: No

NotifyAll

Any change in job state will trigger a notification for this job.

Type: Boolean

Required: No

SnsTopicARN

The new SNS TopicArn that you want to associate with this job. You can create Amazon Resource Names (ARNs) for topics by using the CreateTopic Amazon SNS API action.

You can subscribe email addresses to an Amazon SNS topic through the AWS Management Console, or by using the Subscribe Amazon Simple Notification Service (Amazon SNS) API action.

Type: String

Length Constraints: Maximum length of 255.

Pattern: arn:aws:*:sns::*:[0-9]{12}::*

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
OnDeviceServiceConfiguration
Service: AWS Snowball

An object that represents the metadata and configuration settings for services on an AWS Snow Family device.

Contents

NFSOnDeviceService

Represents the NFS (Network File System) service on a Snow Family device.

Type: NFSOnDeviceServiceConfiguration (p. 145) object

Required: No

TGWOnDeviceService

Represents the Storage Gateway service Tape Gateway type on a Snow Family device.

Type: TGWOnDeviceServiceConfiguration (p. 154) object

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
S3Resource

Service: AWS Snowball

Each S3Resource object represents an Amazon S3 bucket that your transferred data will be exported from or imported into. For export jobs, this object can have an optional KeyRange value. The length of the range is defined at job creation, and has either an inclusive BeginMarker, an inclusive EndMarker, or both. Ranges are UTF-8 binary sorted.

Contents

BucketArn

The Amazon Resource Name (ARN) of an Amazon S3 bucket.

Type: String

Length Constraints: Maximum length of 255.

Pattern: arn:aws:*:*

Required: No

KeyRange

For export jobs, you can provide an optional KeyRange within a specific Amazon S3 bucket. The length of the range is defined at job creation, and has either an inclusive BeginMarker, an inclusive EndMarker, or both. Ranges are UTF-8 binary sorted.

Type: KeyRange (p. 141) object

Required: No

TargetOnDeviceServices

Specifies the service or services on the Snow Family device that your transferred data will be exported from or imported into. AWS Snow Family supports Amazon S3 and NFS (Network File System).

Type: Array of TargetOnDeviceService (p. 152) objects

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
Shipment
Service: AWS Snowball

The Status and TrackingNumber information for an inbound or outbound shipment.

Contents

Status

Status information for a shipment.

Type: String


Pattern: .*

Required: No

TrackingNumber

The tracking number for this job. Using this tracking number with your region's carrier's website, you can track a Snow device as the carrier transports it.

For India, the carrier is Amazon Logistics. For all other regions, UPS is the carrier.

Type: String


Pattern: .*

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
ShippingDetails

Service: AWS Snowball

A job's shipping information, including inbound and outbound tracking numbers and shipping speed options.

Contents

InboundShipment

The Status and TrackingNumber values for a Snow device being returned to AWS for a particular job.

Type: Shipment (p. 149) object

Required: No

OutboundShipment

The Status and TrackingNumber values for a Snow device being delivered to the address that you specified for a particular job.

Type: Shipment (p. 149) object

Required: No

ShippingOption

The shipping speed for a particular job. This speed doesn't dictate how soon you'll get the Snow device from the job's creation date. This speed represents how quickly it moves to its destination while in transit. Regional shipping speeds are as follows:

- In Australia, you have access to express shipping. Typically, Snow devices shipped express are delivered in about a day.
- In the European Union (EU), you have access to express shipping. Typically, Snow devices shipped express are delivered in about a day. In addition, most countries in the EU have access to standard shipping, which typically takes less than a week, one way.
- In India, Snow devices are delivered in one to seven days.
- In the United States of America (US), you have access to one-day shipping and two-day shipping.

Type: String

Valid Values: SECOND_DAY | NEXT_DAY | EXPRESS | STANDARD

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
SnowconeDeviceConfiguration
Service: AWS Snowball

Specifies the device configuration for an AWS Snowcone job.

Contents

**WirelessConnection**

  Configures the wireless connection for the Snowcone device.

  Type: WirelessConnection (p. 155) object

  Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
TargetOnDeviceService
Service: AWS Snowball

An object that represents the service or services on the Snow Family device that your transferred data will be exported from or imported into. AWS Snow Family supports Amazon S3 and NFS (Network File System).

Contents

**ServiceName**

Specifies the name of the service on the Snow Family device that your transferred data will be exported from or imported into.

Type: String

Valid Values: NFS_ON_DEVICE_SERVICE | S3_ON_DEVICE_SERVICE

Required: No

**TransferOption**

Specifies whether the data is being imported or exported. You can import or export the data, or use it locally on the device.

Type: String

Valid Values: IMPORT | EXPORT | LOCAL_USE

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
TaxDocuments
Service: AWS Snowball

The tax documents required in your AWS Region.

Contents

IND

The tax documents required in AWS Region in India.

Type: INDTaxDocuments (p. 131) object

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
TGWOnDeviceServiceConfiguration

Service: AWS Snowball

An object that represents the metadata and configuration settings for the Storage Gateway service Tape Gateway type on an AWS Snow Family device.

Contents

StorageLimit

The maximum number of virtual tapes to store on one Snow Family device. Due to physical resource limitations, this value must be set to 80 for Snowball Edge.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

StorageUnit

The scale unit of the virtual tapes on the device.

Type: String

Valid Values: TB

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
WirelessConnection

Service: AWS Snowball

Configures the wireless connection on an AWS Snowcone device.

Contents

IsWifiEnabled

Enables the Wi-Fi adapter on an AWS Snowcone device.

Type: Boolean

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AWS Snow Device Management

The following data types are supported by AWS Snow Device Management:

- Capacity (p. 156)
- Command (p. 157)
- CpuOptions (p. 158)
- DeviceSummary (p. 159)
- EbsInstanceBlockDevice (p. 160)
- ExecutionSummary (p. 161)
- Instance (p. 162)
- InstanceBlockDeviceMapping (p. 164)
- InstanceState (p. 165)
- InstanceSummary (p. 166)
- PhysicalNetworkInterface (p. 167)
- Reboot (p. 169)
- ResourceSummary (p. 170)
- SecurityGroupId (p. 171)
- SoftwareInformation (p. 172)
- TaskSummary (p. 173)
- Unlock (p. 174)
Capacity
Service: AWS Snow Device Management

The physical capacity of the AWS Snow Family device.

Contents

available
The amount of capacity available for use on the device.
Type: Long
Required: No

name
The name of the type of capacity, such as memory.
Type: String
Length Constraints: Minimum length of 0. Maximum length of 100.
Required: No

total
The total capacity on the device.
Type: Long
Required: No

unit
The unit of measure for the type of capacity.
Type: String
Length Constraints: Minimum length of 0. Maximum length of 20.
Required: No

used
The amount of capacity used on the device.
Type: Long
Required: No

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
Command
Service: AWS Snow Device Management

The command given to the device to execute.

Contents

reboot

Reboots the device.

Type: Reboot (p. 169) object

Required: No

unlock

Unlocks the device.

Type: Unlock (p. 174) object

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
CpuOptions

Service: AWS Snow Device Management

The options for how a device's CPU is configured.

Contents

coreCount

The number of cores that the CPU can use.

Type: Integer

Required: No

threadsPerCore

The number of threads per core in the CPU.

Type: Integer

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
**DeviceSummary**

Service: AWS Snow Device Management

Identifying information about the device.

**Contents**

**associatedWithJob**

The ID of the job used to order the device.

Type: String

Required: No

**managedDeviceArn**

The Amazon Resource Name (ARN) of the device.

Type: String

Required: No

**managedDeviceId**

The ID of the device.

Type: String

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

Required: No

**tags**

Optional metadata that you assign to a resource. You can use tags to categorize a resource in different ways, such as by purpose, owner, or environment.

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 V2
- AWS SDK for Ruby V3
EbsInstanceBlockDevice
Service: AWS Snow Device Management

Describes a parameter used to set up an Amazon Elastic Block Store (Amazon EBS) volume in a block device mapping.

Contents

attachTime
When the attachment was initiated.
Type: Timestamp
Required: No

deleteOnTermination
A value that indicates whether the volume is deleted on instance termination.
Type: Boolean
Required: No

status
The attachment state.
Type: String
Valid Values: ATTACHING | ATTACHED | DETACHING | DETACHED
Required: No

volumeId
The ID of the Amazon EBS volume.
Type: String
Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
ExecutionSummary
Service: AWS Snow Device Management

The summary of a task execution on a specified device.

Contents

executionId
The ID of the execution.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 64.
Required: No

managedDeviceId
The ID of the managed device that the task is being executed on.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 64.
Required: No

state
The state of the execution.
Type: String
Valid Values: QUEUED | IN_PROGRESS | CANCELED | FAILED | SUCCEEDED | REJECTED | TIMED_OUT
Required: No

taskId
The ID of the task.
Type: String
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 V2
- AWS SDK for Ruby V3
**Instance**
Service: AWS Snow Device Management

The description of an instance. Currently, Amazon EC2 instances are the only supported instance type.

**Contents**

*amiLaunchIndex*

The Amazon Machine Image (AMI) launch index, which you can use to find this instance in the launch group.

Type: Integer

Required: No

*blockDeviceMappings*

Any block device mapping entries for the instance.

Type: Array of `InstanceBlockDeviceMapping` objects

Required: No

*cpuOptions*

The CPU options for the instance.

Type: `CpuOptions` object

Required: No

*createdAt*

When the instance was created.

Type: Timestamp

Required: No

*imageId*

The ID of the AMI used to launch the instance.

Type: String

Required: No

*instanceId*

The ID of the instance.

Type: String

Required: No

*instanceType*

The instance type.

Type: String

Required: No
**privateIpAddress**

The private IPv4 address assigned to the instance.

Type: String

Required: No

**publicIpAddress**

The public IPv4 address assigned to the instance.

Type: String

Required: No

**rootDeviceName**

The device name of the root device volume (for example, `/dev/sda1`).

Type: String

Required: No

**securityGroups**

The security groups for the instance.

Type: Array of SecurityGroupIdentifier (p. 171) objects

Required: No

**state**

The description of the current state of an instance.

Type: InstanceState (p. 165) object

Required: No

**updatedAt**

When the instance was last updated.

Type: Timestamp

Required: No

---

**See Also**

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
InstanceBlockDeviceMapping
Service: AWS Snow Device Management

The description of a block device mapping.

Contents

deviceName

  The block device name.

  Type: String

  Required: No

ebs

  The parameters used to automatically set up Amazon Elastic Block Store (Amazon EBS) volumes when the instance is launched.

  Type: EbsInstanceBlockDevice (p. 160) object

  Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
InstanceState

Service: AWS Snow Device Management

The description of the current state of an instance.

Contents

code

The state of the instance as a 16-bit unsigned integer.

The high byte is all of the bits between $2^8$ and $(2^{16})-1$, which equals decimal values between 256 and 65,535. These numerical values are used for internal purposes and should be ignored.

The low byte is all of the bits between $2^0$ and $(2^8)-1$, which equals decimal values between 0 and 255.

The valid values for the instance state code are all in the range of the low byte. These values are:
- 0: pending
- 16: running
- 32: shutting-down
- 48: terminated
- 64: stopping
- 80: stopped

You can ignore the high byte value by zeroing out all of the bits above $2^8$ or 256 in decimal.

Type: Integer

Required: No

name

The current state of the instance.

Type: String

Valid Values: PENDING | RUNNING | SHUTTING_DOWN | TERMINATED | STOPPING | STOPPED

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
InstanceSummary
Service: AWS Snow Device Management

The details about the instance.

Contents

instance

A structure containing details about the instance.

Type: Instance (p. 162) object

Required: No

lastUpdatedAt

When the instance summary was last updated.

Type: Timestamp

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
PhysicalNetworkInterface

Service: AWS Snow Device Management

The details about the physical network interface for the device.

Contents

defaultGateway
  The default gateway of the device.
  Type: String
  Required: No

ipAddress
  The IP address of the device.
  Type: String
  Required: No

ipAddressAssignment
  A value that describes whether the IP address is dynamic or persistent.
  Type: String
  Valid Values: DHCP | STATIC
  Required: No

macAddress
  The MAC address of the device.
  Type: String
  Required: No

netmask
  The netmask used to divide the IP address into subnets.
  Type: String
  Required: No

physicalConnectorType
  The physical connector type.
  Type: String
  Valid Values: RJ45 | SFP_PLUS | QSFP | RJ45_2 | WIFI
  Required: No

physicalNetworkInterfaceId
  The physical network interface ID.
  Type: String
Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
Reboot
Service: AWS Snow Device Management
A structure used to reboot the device.

Contents
The members of this structure are context-dependent.

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

• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for Ruby V3
**ResourceSummary**  
Service: AWS Snow Device Management

A summary of a resource available on the device.

**Contents**

**arn**  
The Amazon Resource Name (ARN) of the resource.  
Type: String  
Required: No

**id**  
The ID of the resource.  
Type: String  
Required: No

**resourceType**  
The resource type.  
Type: String  
Required: Yes

**See Also**

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
SecurityGroupId
Service: AWS Snow Device Management
Information about the device's security group.

Contents

groupId
   The security group ID.
   Type: String
   Required: No

groupName
   The security group name.
   Type: String
   Required: No

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
SoftwareInformation
Service: AWS Snow Device Management

Information about the software on the device.

Contents

installedVersion
The version of the software currently installed on the device.
Type: String
Required: No

installingVersion
The version of the software being installed on the device.
Type: String
Required: No

installState
The state of the software that is installed or that is being installed on the device.
Type: String
Required: No

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
TaskSummary

Service: AWS Snow Device Management

Information about the task assigned to one or many devices.

Contents

state
The state of the task assigned to one or many devices.
Type: String
Valid Values: IN_PROGRESS | CANCELED | COMPLETED
Required: No

tags
Optional metadata that you assign to a resource. You can use tags to categorize a resource in different ways, such as by purpose, owner, or environment.
Type: String to string map
Required: No

taskArn
The Amazon Resource Name (ARN) of the task.
Type: String
Required: No

taskId
The task ID.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 64.
Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
Unlock
Service: AWS Snow Device Management
A structure used to unlock a device.

Contents
The members of this structure are context-dependent.

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see Signature Version 4 Signing Process in the Amazon Web Services General Reference.

**Action**

The action to be performed.

Type: string

Required: Yes

**Version**

The API version that the request is written for, expressed in the format YYYY-MM-DD.

Type: string

Required: Yes

**X-Amz-Algorithm**

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

**X-Amz-Credential**

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4_request"). The value is expressed in the following format: `access_key/YYYYMMDD/region/service/aws4_request`.

For more information, see Task 2: Create a String to Sign for Signature Version 4 in the Amazon Web Services General Reference.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

**X-Amz-Date**

The date that is used to create the signature. The format must be ISO 8601 basic format ("YYYYMMDD'T'HHMMSS'Z'"). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is
not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see Handling Dates in Signature Version 4 in the Amazon Web Services General Reference.

Type: string

Required: Conditional

X-Amz-Security-Token

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS Security Token Service, go to AWS Services That Work with IAM in the IAM User Guide.

Condition: If you're using temporary security credentials from the AWS Security Token Service, you must include the security token.

Type: string

Required: Conditional

X-Amz-Signature

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-SignedHeaders

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see Task 1: Create a Canonical Request For Signature Version 4 in the Amazon Web Services General Reference.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional
## 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

**NotAuthorized**

You do not have permission to perform this action.

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