
AWS Snowball

API 参考



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任务管理 API 参考

适用于 AWS Snowball 的任务管理 API 是基于 HTTP (RFC 2616) 的网络协议。有关此 RFC 的更多信息，请参阅 IETF 网站上的 [HTTP \(RFC 2616\)](#)。对于任务管理 API 的每次调用，您需要向针对要从中管理任务的 AWS 区域的区域特定任务管理 API 终端节点发送 HTTP 请求。API 会对 HTTP 请求/响应正文使用 JSON (RFC 4627) 文档。

Note

在美国区域进行的用于列出工作或描述地址的 API 调用将返回该账户在美国境内的所有任务或地址。

适用于 Snowball 的任务管理 API 是一种 RPC 模型。在该模型中具有一套固定的操作，客户端已知每个操作的语法，而无需事先进行任何交互。在下文中，您可以使用一个抽象 RPC 表示找出各个 API 操作的说明以及不会在线显示的操作名称。对于每个操作，该主题指定了指向 HTTP 请求要素的映射。

某个给定请求所映射到的特定任务管理操作由请求方法 (GET、PUT、POST 或 DELETE) 以及与其请求-URI 匹配的模式共同确定。如果操作为 PUT 或 POST，则 Snowball 将从请求 URI 路径分段、查询参数和请求正文内的 JSON 对象中提取调用参数。

尽管操作名称 (如 `CreateJob`) 不会在线显示，但这些操作名称在 AWS Identity and Access Management (IAM) 策略中具有重要意义。操作名称还可用于为命令行工具中的命令和 AWS SDK API 的元素命名。例如，AWS Command Line Interface (AWS CLI) 命令 `create-job` 会映射到 `CreateJob` 操作。操作名称还会显示在 Snowball API 调用的 CloudTrail 日志中。

有关安装和设置 AWS CLI 的信息 (包括指定要为其执行 AWS CLI 调用的区域)，请参阅 [AWS Command Line Interface 用户指南](#)。

Note

借助任务管理 API，您能以编程方式访问 [AWS Snowball Management Console](#) 中的相同功能，即为 Snowball 创建和管理任务。要借助 Snowball 设备在本地传输数据，请使用 Snowball 客户端或 S3 SDK Adapter for Snowball。有关更多信息，请参阅 [AWS Snowball 用户指南](#) 中的使用 Snowball 传输数据。

如果您使用的是 Snowball Edge，请使用 Snowball 客户端解锁设备。有关更多信息，请参阅 [AWS Snowball 开发人员指南](#) 中的使用 Snowball 客户端。

API 终端节点

API 终端节点是指在 API 调用的 HTTP URI 中用作主机的域名服务 (DNS) 名称。这些 API 终端节点是特定于区域的，并采用以下形式。

```
snowball.aws-region.amazonaws.com
```

例如，美国西部 (俄勒冈) 区域的 Snowball API 终端节点如下所示。

```
snowball.us-west-2.amazonaws.com
```

查看 AWS 区域列表 Snowball 支持 (如果您可以创建和管理职位)，请参阅 [AWS Import/Export](#) 在 AWS General Reference。

特定于区域的 API 终端节点会定义您在执行 API 调用时可以访问的 Snowball 资源范围。例如，当您使用上述终端节点调用 `ListJobs` 操作时，您将获得在您账户中创建的位于美国西部 (俄勒冈) 区域的任务列表。

API 版本

用于调用的 API 版本是由请求 URI 的第一个路径分段确定的，并且其格式为 ISO 8601 日期。本文档中所描述的版本为 API 版本 2016-06-30。

API 权限策略参考

使用任务管理 API 为 Snowball 创建任务时，需要使用以下策略。

用于创建任务的角色信任策略

使用 job management API 创建任务时，需要使用以下信任策略。

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

Note

要了解有关信任策略的更多信息，请参阅 IAM 用户指南 中的 [修改角色](#)。

用于创建导入任务的角色策略

创建导入任务时，需要使用以下角色策略。

```
{
  "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:::*"
  },
  {
    "Effect": "Allow",
    "Action": [
      "snowball:*"
    ],
    "Resource": [
      "*"
    ]
  }
]
}

```

用于创建导出任务的角色策略

创建导出任务时，需要使用以下角色策略。

```

{
  "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 用于创建职位的桶策略负责人

在某些情况下，您用于 Snowball 的 Amazon S3 存储桶所采用的存储桶策略要求列出代入角色的角色会话名称。在这些情况下，您需要在这些策略中指定 `AWSImportExport-Validation`。以下内容 Amazon S3 桶策略示例展示如何执行。

Example

```

{
  "Version": "2012-10-17",
  "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/*"]  
}  
}
```

在此示例策略中，我们拒绝了除 NotPrincipal 元素中指定的委托人之外的所有委托人的访问。有关如何使用的更多信息 NotPrincipal，参见 [公证人](#) 在 IAM 用户指南。

Note

对于 AWS GovCloud (US) 中的任务，Snowball 将 AWSIEJob 用作代入角色的角色会话名称。

为 Snowball 和 Snowball Edge 创建 IAM 角色

创建的 IAM 角色策略必须拥有对 Amazon S3 存储桶的读写权限。IAM 角色还必须与 Snowball 有信任关系。拥有信任关系意味着 AWS 可以在 Snowball 和 Amazon S3 存储桶中写入数据，具体取决于您是导入数据还是导出数据。

在 AWS Snow 系列管理控制台中创建任务时，在 Permission (权限) 部分的步骤 4 中创建所需的 IAM 角色。此过程是自动的。您允许 Snowball 代入的 IAM 角色只用于在带有传输数据的 Snowball 抵达 AWS 时将您的数据写入到存储桶。此流程包括下列步骤。

为导入任务创建 IAM 角色

1. 登录 AWS 管理控制台并通过以下网址打开 AWS Snowball 控制台：<https://console.amazonaws.cn/importexport/>。
2. 选择 Create job (创建作业)。
3. 在第一步中，填写 Amazon S3 导入任务的详细信息，然后选择 Next (下一步)。
4. 在第二步中，在 Permission 下选择 Create/Select IAM Role。

IAM 管理控制台将打开，其中显示 AWS 用于将对象复制到您指定的 Amazon S3 存储桶的 IAM 角色。

5. 检查此页上的详细信息，然后选择允许。

您将返回到 AWS Snow 系列管理控制台，其中 Selected IAM role ARN (选择的 IAM 角色 ARN) 包含您刚刚创建的 IAM 角色的 Amazon 资源名称 (ARN)。

6. 选择 Next (下一步) 完成创建您的 IAM 角色。

上述过程创建了一个对您计划将数据导入到的 Amazon S3 存储桶拥有写权限的 IAM 角色。创建的 IAM 角色具有以下结构之一，具体取决于它是用于导入任务还是用于导出任务。

用于导入任务的 IAM 角色

```
{  
  "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::*"
  }
]
```

如果您使用带有 AWS KMS- 托管密钥 (SSE-KMS) 的服务器端加密对与您的导出任务关联的 Amazon S3 存储桶进行加密，则您还需要将以下语句添加到您的 IAM 角色。

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

用于导出任务的 IAM 角色

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

如果您使用带有 AWS KMS- 托管密钥的服务器端加密对与您的导出任务关联的 Amazon S3 存储桶进行加密，则您还需要将以下语句添加到您的 IAM 角色。

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

Actions

The following actions are supported:

- [CancelCluster](#) (p. 7)
- [CancelJob](#) (p. 9)
- [CreateAddress](#) (p. 11)
- [CreateCluster](#) (p. 13)
- [CreateJob](#) (p. 18)
- [CreateReturnShippingLabel](#) (p. 24)
- [DescribeAddress](#) (p. 27)
- [DescribeAddresses](#) (p. 29)
- [DescribeCluster](#) (p. 32)
- [DescribeJob](#) (p. 35)
- [DescribeReturnShippingLabel](#) (p. 39)
- [GetJobManifest](#) (p. 41)
- [GetJobUnlockCode](#) (p. 43)
- [GetSnowballUsage](#) (p. 45)
- [GetSoftwareUpdates](#) (p. 46)
- [ListClusterJobs](#) (p. 48)
- [ListClusters](#) (p. 51)
- [ListCompatibleImages](#) (p. 53)
- [ListJobs](#) (p. 55)
- [UpdateCluster](#) (p. 57)
- [UpdateJob](#) (p. 61)
- [UpdateJobShipmentState](#) (p. 65)

CancelCluster

Cancel 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 \(p. 99\)](#).

The request accepts the following data in JSON format.

ClusterId (p. 7)

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

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 \(p. 18\)](#) or [UpdateJob \(p. 61\)](#) 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](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CancelJob

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

The request accepts the following data in JSON format.

JobId (p. 9)

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

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 \(p. 18\)](#) or [UpdateJob \(p. 61\)](#) 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](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateAddress

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

The request accepts the following data in JSON format.

Address (p. 11)

The address that you want the Snow device shipped to.

Type: [Address \(p. 68\)](#) 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.

AddressId (p. 11)

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

Length Constraints: Minimum length of 1.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 101\)](#).

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

CreateCluster

Creates an empty cluster. Each cluster supports five nodes. You use the [CreateJob \(p. 18\)](#) 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

```
{
  "AddressId": "string",
  "Description": "string",
  "ForwardingAddressId": "string",
  "JobType": "string",
  "KmsKeyARN": "string",
  "Notification": {
    "JobStatesToNotify": [ "string" ],
    "NotifyAll": boolean,
    "SnsTopicARN": "string"
  },
  "Resources": {
    "Ec2AmiResources": [
      {
        "AmiId": "string",
        "SnowballAmiId": "string"
      }
    ],
    "LambdaResources": [
      {
        "EventTriggers": [
          {
            "EventResourceARN": "string"
          }
        ],
        "LambdaArn": "string"
      }
    ],
    "S3Resources": [
      {
        "BucketArn": "string",
        "KeyRange": {
          "BeginMarker": "string",
          "EndMarker": "string"
        }
      }
    ]
  },
  "RoleARN": "string",
  "ShippingOption": "string",
  "SnowballType": "string",
  "TaxDocuments": {
    "IND": {
      "GSTIN": "string"
    }
  }
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 99\)](#).

The request accepts the following data in JSON format.

[AddressId \(p. 13\)](#)

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 \(p. 13\)](#)

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

Type: String

Length Constraints: Minimum length of 1.

Required: No

[ForwardingAddressId \(p. 13\)](#)

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 \(p. 13\)](#)

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: Yes

[KmsKeyARN \(p. 13\)](#)

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 \(p. 13\)](#)

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

Type: [Notification \(p. 92\)](#) object

Required: No

[Resources \(p. 13\)](#)

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 \(p. 89\)](#) object

Required: Yes

[RoleARN \(p. 13\)](#)

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/.*`

Required: Yes

[ShippingOption \(p. 13\)](#)

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 device 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 device 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 \(p. 13\)](#)

The type of AWS Snow Family 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`

Required: No

[TaxDocuments \(p. 13\)](#)

The tax documents required in your AWS Region.

Type: [TaxDocuments \(p. 97\)](#) object

Required: No

Response Syntax

```
{  
  "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 \(p. 16\)](#)

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

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 \(p. 15\)](#) value supports your [CreateJob:JobType \(p. 20\)](#), 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 \(p. 18\)](#) or [UpdateJob \(p. 61\)](#) 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](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateJob

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.

Request Syntax

```
{
  "AddressId": "string",
  "ClusterId": "string",
  "Description": "string",
  "DeviceConfiguration": {
    "SnowconeDeviceConfiguration": {
      "WirelessConnection": {
        "IsWifiEnabled": boolean
      }
    }
  },
  "ForwardingAddressId": "string",
  "JobType": "string",
  "KmsKeyARN": "string",
  "Notification": {
    "JobStatesToNotify": [ "string" ],
    "NotifyAll": boolean,
    "SnsTopicARN": "string"
  },
  "Resources": {
    "Ec2AmiResources": [
      {
        "AmiId": "string",
        "SnowballAmiId": "string"
      }
    ],
    "LambdaResources": [
      {
        "EventTriggers": [
          {
            "EventResourceARN": "string"
          }
        ],
        "LambdaArn": "string"
      }
    ],
    "S3Resources": [
      {
        "BucketArn": "string",
        "KeyRange": {
          "BeginMarker": "string",
          "EndMarker": "string"
        }
      }
    ]
  },
  "RoleARN": "string",
  "ShippingOption": "string",
  "SnowballCapacityPreference": "string",
  "SnowballType": "string",
  "TaxDocuments": {
    "IND": {
      "GSTIN": "string"
    }
  }
}
```

```
}  
  }  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 99\)](#).

The request accepts the following data in JSON format.

[AddressId \(p. 18\)](#)

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 \(p. 18\)](#)

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 \(p. 18\)](#)

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

Type: String

Length Constraints: Minimum length of 1.

Required: No

[DeviceConfiguration \(p. 18\)](#)

Defines the device configuration for an AWS Snowcone job.

Type: [DeviceConfiguration \(p. 77\)](#) object

Required: No

[ForwardingAddressId \(p. 18\)](#)

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 \(p. 18\)](#)

Defines the type of job that you're creating.

Type: String

Valid Values: `IMPORT` | `EXPORT` | `LOCAL_USE`

Required: No

[KmsKeyARN \(p. 18\)](#)

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

[Notification \(p. 18\)](#)

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

Type: [Notification \(p. 92\)](#) object

Required: No

[Resources \(p. 18\)](#)

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 \(p. 89\)](#) object

Required: No

[RoleARN \(p. 18\)](#)

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 \(p. 18\)](#)

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`

Required: No

[SnowballCapacityPreference \(p. 18\)](#)

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.

Type: String

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

Required: No

[SnowballType \(p. 18\)](#)

The type of AWS Snow Family device 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.

Type: String

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

Required: No

[TaxDocuments \(p. 18\)](#)

The tax documents required in your AWS Region.

Type: [TaxDocuments \(p. 97\)](#) 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 \(p. 21\)](#)

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

ClusterLimitExceededException

Job creation failed. Currently, clusters support five nodes. If you have less 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 \(p. 15\)](#) value supports your [CreateJob:JobType \(p. 20\)](#), 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 \(p. 18\)](#) or [UpdateJob \(p. 61\)](#) 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](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateReturnShippingLabel

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

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 99\)](#).

The request accepts the following data in JSON format.

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

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 \(p. 24\)](#)

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

```
{  
  "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 \(p. 24\)](#)

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

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 \(p. 15\)](#) value supports your [CreateJob:JobType \(p. 20\)](#), 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](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

DescribeAddress

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

The request accepts the following data in JSON format.

`AddressId` (p. 27)

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 \(p. 27\)](#)

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

Type: [Address \(p. 68\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 101\)](#).

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

DescribeAddresses

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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 99\)](#).

The request accepts the following data in JSON format.

[MaxResults \(p. 29\)](#)

The number of ADDRESS objects to return.

Type: Integer

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

Required: No

[NextToken \(p. 29\)](#)

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

Length Constraints: Minimum length of 1.

Required: No

Response Syntax

```
{
  "Addresses": [
    {
      "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"  
    }  
  ],  
  "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.

[Addresses \(p. 29\)](#)

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

Type: Array of [Address \(p. 68\)](#) objects

[NextToken \(p. 29\)](#)

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

Length Constraints: Minimum length of 1.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 101\)](#).

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](#)
- [AWS SDK for JavaScript](#)

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

DescribeCluster

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

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 99\)](#).

The request accepts the following data in JSON format.

ClusterId (p. 32)

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

```
{  
  "ClusterMetadata": {  
    "AddressId": "string",  
    "ClusterId": "string",  
    "ClusterState": "string",  
    "CreationDate": number,  
    "Description": "string",  
    "ForwardingAddressId": "string",  
    "JobType": "string",  
    "KmsKeyARN": "string",  
    "Notification": {  
      "JobStatesToNotify": [ "string" ],  
      "NotifyAll": boolean,  
      "SnsTopicARN": "string"  
    },  
    "Resources": {  
      "Ec2AmiResources": [  
        {  
          "AmiId": "string",  
          "SnowballAmiId": "string"  
        }  
      ],  
      "LambdaResources": [  
        {  
          "EventTriggers": [  
            {  
              "EventName": "string",  
              "FunctionName": "string",  
              "Role": "string",  
              "Type": "string"  
            }  
          ]  
        }  
      ]  
    }  
  }  
}
```

```
        "EventResourceARN": "string"
      }
    ],
    "LambdaArn": "string"
  }
],
"S3Resources": [
  {
    "BucketArn": "string",
    "KeyRange": {
      "BeginMarker": "string",
      "EndMarker": "string"
    }
  }
]
},
"RoleARN": "string",
"ShippingOption": "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.

[ClusterMetadata \(p. 32\)](#)

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

Type: [ClusterMetadata \(p. 72\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 101\)](#).

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

DescribeJob

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

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 99\)](#).

The request accepts the following data in JSON format.

JobId (p. 35)

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

```
{  
  "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",
    "Notification": {
        "JobStatesToNotify": [ "string" ],
        "NotifyAll": boolean,
        "SnsTopicARN": "string"
    },
    "Resources": {
        "Ec2AmiResources": [
            {
                "AmiId": "string",
                "SnowballAmiId": "string"
            }
        ],
        "LambdaResources": [
            {
                "EventTriggers": [
                    {
                        "EventResourceARN": "string"
                    }
                ],
                "LambdaArn": "string"
            }
        ],
        "S3Resources": [
            {
                "BucketArn": "string",
                "KeyRange": {
                    "BeginMarker": "string",
                    "EndMarker": "string"
                }
            }
        ]
    },
    "RoleARN": "string",
    "ShippingDetails": {
        "InboundShipment": {
            "Status": "string",
            "TrackingNumber": "string"
        },
        "OutboundShipment": {
            "Status": "string",
            "TrackingNumber": "string"
        },
        "ShippingOption": "string"
    },
    "SnowballCapacityPreference": "string",
    "SnowballType": "string",
    "TaxDocuments": {
        "IND": {
            "GSTIN": "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",
    "Notification": {
      "JobStatesToNotify": [ "string" ],
      "NotifyAll": boolean,
      "SnsTopicARN": "string"
    },
    "Resources": {
      "Ec2AmiResources": [
        {
          "AmiId": "string",
          "SnowballAmiId": "string"
        }
      ],
      "LambdaResources": [
        {
          "EventTriggers": [
            {
              "EventResourceARN": "string"
            }
          ],
          "LambdaArn": "string"
        }
      ],
      "S3Resources": [
        {
          "BucketArn": "string",
          "KeyRange": {
            "BeginMarker": "string",
            "EndMarker": "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 \(p. 35\)](#)

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

Type: [JobMetadata \(p. 85\)](#) object

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

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 \(p. 85\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 101\)](#).

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

DescribeReturnShippingLabel

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

The request accepts the following data in JSON format.

[JobId \(p. 39\)](#)

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: No

Response Syntax

```
{  
  "ExpirationDate": number,  
  "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 \(p. 39\)](#)

The expiration date of the current return shipping label.

Type: Timestamp

[Status \(p. 39\)](#)

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

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

GetJobManifest

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. 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 90 days after the job is created.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 99\)](#).

The request accepts the following data in JSON format.

[JobId \(p. 41\)](#)

The ID for a job that you want to get the manifest 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

```
{
  "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 \(p. 41\)](#)

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

Type: String

Length Constraints: Minimum length of 1.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 101\)](#).

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

GetJobUnlockCode

Returns the `UnlockCode` code value for the specified job. A particular `UnlockCode` value can be accessed for up to 90 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.

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

The request accepts the following data in JSON format.

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

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 \(p. 43\)](#)

The `UnlockCode` value for the specified job. The `UnlockCode` value can be accessed for up to 90 days after the job has been created.

Type: String

Length Constraints: Minimum length of 1.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 101\)](#).

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

GetSnowballUsage

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 \(p. 45\)](#)

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

Type: Integer

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

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

See Also

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

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

GetSoftwareUpdates

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

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 99\)](#).

The request accepts the following data in JSON format.

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

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

```
{  
  "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 \(p. 46\)](#)

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

Length Constraints: Minimum length of 1.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 101\)](#).

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

ListClusterJobs

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

The request accepts the following data in JSON format.

[ClusterId \(p. 48\)](#)

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 \(p. 48\)](#)

The number of `JobListEntry` objects to return.

Type: Integer

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

Required: No

[NextToken \(p. 48\)](#)

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

Length Constraints: Minimum length of 1.

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 \(p. 48\)](#)

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 \(p. 81\)](#) objects

[NextToken \(p. 48\)](#)

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

Length Constraints: Minimum length of 1.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 101\)](#).

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

ListClusters

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

The request accepts the following data in JSON format.

MaxResults (p. 51)

The number of `ClusterListEntry` objects to return.

Type: Integer

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

Required: No

NextToken (p. 51)

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

Length Constraints: Minimum length of 1.

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 \(p. 51\)](#)

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

Type: Array of [ClusterListEntry \(p. 71\)](#) objects

[NextToken \(p. 51\)](#)

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

Length Constraints: Minimum length of 1.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 101\)](#).

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

ListCompatibleImages

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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 99\)](#).

The request accepts the following data in JSON format.

[MaxResults \(p. 53\)](#)

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 \(p. 53\)](#)

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

Length Constraints: Minimum length of 1.

Required: No

Response Syntax

```
{  
  "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 \(p. 53\)](#)

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

Type: Array of [CompatibleImage \(p. 75\)](#) objects

[NextToken \(p. 53\)](#)

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

Type: String

Length Constraints: Minimum length of 1.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 101\)](#).

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

The request accepts the following data in JSON format.

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

The number of `JobListEntry` objects to return.

Type: Integer

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

Required: No

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

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

Length Constraints: Minimum length of 1.

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 \(p. 55\)](#)

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 \(p. 81\)](#) objects

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

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

Length Constraints: Minimum length of 1.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 101\)](#).

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

UpdateCluster

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

```
{
  "AddressId": "string",
  "ClusterId": "string",
  "Description": "string",
  "ForwardingAddressId": "string",
  "Notification": {
    "JobStatesToNotify": [ "string" ],
    "NotifyAll": boolean,
    "SnsTopicARN": "string"
  },
  "Resources": {
    "Ec2AmiResources": [
      {
        "AmiId": "string",
        "SnowballAmiId": "string"
      }
    ],
    "LambdaResources": [
      {
        "EventTriggers": [
          {
            "EventResourceARN": "string"
          }
        ],
        "LambdaArn": "string"
      }
    ],
    "S3Resources": [
      {
        "BucketArn": "string",
        "KeyRange": {
          "BeginMarker": "string",
          "EndMarker": "string"
        }
      }
    ]
  },
  "RoleARN": "string",
  "ShippingOption": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 99\)](#).

The request accepts the following data in JSON format.

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

The ID of the updated [Address \(p. 68\)](#) 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 \(p. 57\)](#)

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 \(p. 57\)](#)

The updated description of this cluster.

Type: String

Length Constraints: Minimum length of 1.

Required: No

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

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 \(p. 57\)](#)

The new or updated [Notification \(p. 92\)](#) object.

Type: [Notification \(p. 92\)](#) object

Required: No

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

The updated arrays of [JobResource \(p. 89\)](#) objects that can include updated [S3Resource \(p. 93\)](#) objects or [LambdaResource \(p. 91\)](#) objects.

Type: [JobResource \(p. 89\)](#) object

Required: No

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

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/.*`

Required: No

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

The updated shipping option value of this cluster's [ShippingDetails \(p. 95\)](#) object.

Type: String

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

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

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 \(p. 15\)](#) value supports your [CreateJob:JobType \(p. 20\)](#), 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 \(p. 18\)](#) or [UpdateJob \(p. 61\)](#) 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](#)
- [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

```
{
  "AddressId": "string",
  "Description": "string",
  "ForwardingAddressId": "string",
  "JobId": "string",
  "Notification": {
    "JobStatesToNotify": [ "string" ],
    "NotifyAll": boolean,
    "SnsTopicARN": "string"
  },
  "Resources": {
    "Ec2AmiResources": [
      {
        "AmiId": "string",
        "SnowballAmiId": "string"
      }
    ],
    "LambdaResources": [
      {
        "EventTriggers": [
          {
            "EventResourceARN": "string"
          }
        ],
        "LambdaArn": "string"
      }
    ],
    "S3Resources": [
      {
        "BucketArn": "string",
        "KeyRange": {
          "BeginMarker": "string",
          "EndMarker": "string"
        }
      }
    ]
  },
  "RoleARN": "string",
  "ShippingOption": "string",
  "SnowballCapacityPreference": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 99\)](#).

The request accepts the following data in JSON format.

[AddressId \(p. 61\)](#)

The ID of the updated [Address \(p. 68\)](#) 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 \(p. 61\)](#)

The updated description of this job's [JobMetadata \(p. 85\)](#) object.

Type: String

Length Constraints: Minimum length of 1.

Required: No

[ForwardingAddressId \(p. 61\)](#)

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 \(p. 61\)](#)

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 \(p. 61\)](#)

The new or updated [Notification \(p. 92\)](#) object.

Type: [Notification \(p. 92\)](#) object

Required: No

[Resources \(p. 61\)](#)

The updated `JobResource` object, or the updated [JobResource \(p. 89\)](#) object.

Type: [JobResource \(p. 89\)](#) object

Required: No

[RoleARN \(p. 61\)](#)

The new role Amazon Resource Name (ARN) that you want to associate with this job. To create a role ARN, use the [CreateRoleAWS 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 \(p. 61\)](#)

The updated shipping option value of this job's [ShippingDetails \(p. 95\)](#) object.

Type: String

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

Required: No

[SnowballCapacityPreference \(p. 61\)](#)

The updated `SnowballCapacityPreference` of this job's [JobMetadata \(p. 85\)](#) object. The 50 TB Snowballs are only available in the US regions.

Type: String

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

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

ClusterLimitExceededException

Job creation failed. Currently, clusters support five nodes. If you have less 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 \(p. 15\)](#) value supports your [CreateJob:JobType \(p. 20\)](#), 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 \(p. 18\)](#) or [UpdateJob \(p. 61\)](#) 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](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateJobShipmentState

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

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 99\)](#).

The request accepts the following data in JSON format.

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

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 \(p. 65\)](#)

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

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

Data Types

The Amazon Import/Export Snowball API contains several data types that various actions use. This section describes each data type in detail.

Note

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

The following data types are supported:

- [Address](#) (p. 68)
- [ClusterListEntry](#) (p. 71)
- [ClusterMetadata](#) (p. 72)
- [CompatibleImage](#) (p. 75)
- [DataTransfer](#) (p. 76)
- [DeviceConfiguration](#) (p. 77)
- [Ec2AmiResource](#) (p. 78)
- [EventTriggerDefinition](#) (p. 79)
- [INDTaxDocuments](#) (p. 80)
- [JobListEntry](#) (p. 81)
- [JobLogs](#) (p. 83)
- [JobMetadata](#) (p. 85)
- [JobResource](#) (p. 89)
- [KeyRange](#) (p. 90)
- [LambdaResource](#) (p. 91)
- [Notification](#) (p. 92)
- [S3Resource](#) (p. 93)
- [Shipment](#) (p. 94)
- [ShippingDetails](#) (p. 95)
- [SnowconeDeviceConfiguration](#) (p. 96)
- [TaxDocuments](#) (p. 97)
- [WirelessConnection](#) (p. 98)

Address

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[0-9a-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

Length Constraints: Minimum length of 1.

Required: No

Company

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

Type: String

Length Constraints: Minimum length of 1.

Required: No

Country

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

Type: String

Length Constraints: Minimum length of 1.

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

Length Constraints: Minimum length of 1.

Required: No

Name

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

Type: String

Length Constraints: Minimum length of 1.

Required: No

PhoneNumber

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

Type: String

Length Constraints: Minimum length of 1.

Required: No

PostalCode

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

Type: String

Length Constraints: Minimum length of 1.

Required: No

PrefectureOrDistrict

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

Type: String

Length Constraints: Minimum length of 1.

Required: No

StateOrProvince

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

Type: String

Length Constraints: Minimum length of 1.

Required: No

Street1

The first line in a street address that a Snow device is to be delivered to.

Type: String

Length Constraints: Minimum length of 1.

Required: No

Street2

The second line in a street address that a Snow device is to be delivered to.

Type: String

Length Constraints: Minimum length of 1.

Required: No

Street3

The third line in a street address that a Snow device is to be delivered to.

Type: String

Length Constraints: Minimum length of 1.

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

ClusterListEntry

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

Length Constraints: Minimum length of 1.

Required: No

ClusterState

The current state of this cluster. For information about the state of a specific node, see [JobListEntry:JobState \(p. 81\)](#).

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

Length Constraints: Minimum length of 1.

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

ClusterMetadata

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

Length Constraints: Minimum length of 1.

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

Length Constraints: Minimum length of 1.

Required: No

ForwardingAddressId

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 `kmsKeyARN` 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. 92) object

Required: No

Resources

The arrays of [JobResource](#) (p. 89) objects that can include updated [S3Resource](#) (p. 93) objects or [LambdaResource](#) (p. 91) objects.

Type: [JobResource](#) (p. 89) 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/.*`

Required: No

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 AWS Snow 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`

Required: No

TaxDocuments

The tax documents required in your AWS Region.

Type: [TaxDocuments \(p. 97\)](#) 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](#)
- [AWS SDK for Ruby V3](#)

CompatibleImage

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

Amild

The unique identifier for an individual Snow device AMI.

Type: String

Length Constraints: Minimum length of 1.

Required: No

Name

The optional name of a compatible image.

Type: String

Length Constraints: Minimum length of 1.

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

DataTransfer

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](#)
- [AWS SDK for Ruby V3](#)

DeviceConfiguration

The container for `SnowconeDeviceConfiguration`.

Contents

`SnowconeDeviceConfiguration`

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

Type: [SnowconeDeviceConfiguration](#) (p. 96) 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](#)
- [AWS SDK for Ruby V3](#)

Ec2AmiResource

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

Amild

The ID of the AMI in Amazon EC2.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 21.

Pattern: `(ami-[0-9a-f]{8})|(ami-[0-9a-f]{17})`

Required: Yes

SnowballAmild

The ID of the AMI on the Snow device.

Type: String

Length Constraints: Minimum length of 1.

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

EventTriggerDefinition

The container for the [EventTriggerDefinition:EventResourceARN](#) (p. 79).

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.

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

INDTaxDocuments

The tax documents required in AWS Regions in India.

Contents

GSTIN

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

Type: String

Pattern: `\d{2}[A-Z]{5}\d{4}[A-Z]{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](#)
- [AWS SDK for Ruby V3](#)

JobListEntry

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

Length Constraints: Minimum length of 1.

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-a456-426655440000`.

Type: String

Length Constraints: Minimum length of 1.

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`

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

JobLogs

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

Length Constraints: Minimum length of 1.

Required: No

JobFailureLogURI

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

Type: String

Length Constraints: Minimum length of 1.

Required: No

JobSuccessLogURI

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

Type: String

Length Constraints: Minimum length of 1.

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

JobMetadata

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

Length Constraints: Minimum length of 1.

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 \(p. 76\)](#) object

Required: No

Description

The description of the job, provided at job creation.

Type: String

Length Constraints: Minimum length of 1.

Required: No

DeviceConfiguration

The container for `SnowconeDeviceConfiguration`.

Type: [DeviceConfiguration \(p. 77\)](#) object

Required: No

ForwardingAddressId

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

Length Constraints: Minimum length of 1.

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 \(p. 83\)](#) 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

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 \(p. 92\)](#) object

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 \(p. 89\)](#) 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 (IAM).

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

Type: String

Valid Values: `T50` | `T80` | `T100` | `T42` | `T98` | `T8` | `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`

Required: No

TaxDocuments

The metadata associated with the tax documents required in your AWS Region.

Type: [TaxDocuments \(p. 97\)](#) 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](#)
- [AWS SDK for Ruby V3](#)

JobResource

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. 78) objects

Required: No

LambdaResources

The Python-language Lambda functions for this job.

Type: Array of [LambdaResource](#) (p. 91) objects

Required: No

S3Resources

An array of [S3Resource](#) objects.

Type: Array of [S3Resource](#) (p. 93) 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](#)
- [AWS SDK for Ruby V3](#)

KeyRange

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

Length Constraints: Minimum length of 1.

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

Length Constraints: Minimum length of 1.

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

LambdaResource

Identifies

Contents

EventTriggers

The array of ARNs for [S3Resource](#) (p. 93) objects to trigger the [LambdaResource](#) (p. 91) objects associated with this job.

Type: Array of [EventTriggerDefinition](#) (p. 79) 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.

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

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.

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](#) AWS Simple Notification Service (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](#)
- [AWS SDK for Ruby V3](#)

S3Resource

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.

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 \(p. 90\)](#) 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](#)
- [AWS SDK for Ruby V3](#)

Shipment

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

Contents

Status

Status information for a shipment.

Type: String

Length Constraints: Minimum length of 1.

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

Length Constraints: Minimum length of 1.

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

ShippingDetails

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 \(p. 94\)](#) 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 \(p. 94\)](#) 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 device 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](#)
- [AWS SDK for Ruby V3](#)

SnowconeDeviceConfiguration

Specifies the device configuration for an AWS Snowcone job.

Contents

WirelessConnection

Configures the wireless connection for the AWS Snowcone device.

Type: [WirelessConnection \(p. 98\)](#) 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](#)
- [AWS SDK for Ruby V3](#)

TaxDocuments

The tax documents required in your AWS Region.

Contents

IND

The tax documents required in AWS Regions in India.

Type: [INDTaxDocuments](#) (p. 80) 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](#)
- [AWS SDK for Ruby V3](#)

WirelessConnection

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](#)
- [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

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

如果我们为英文版本指南提供翻译，那么如果存在任何冲突，将以英文版本指南为准。在提供翻译时使用机器翻译。