
AWS Import/Export Developer Guide



AWS Import/Export: Developer Guide

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What Is AWS Import/Export Disk?

AWS Import/Export is a service that accelerates transferring large amounts of data into and out of AWS using physical storage appliances, bypassing the Internet. AWS Import/Export has two features that support this functionality in two different ways, [AWS Snowball](#) and AWS Import/Export Disk (Disk).

AWS Import/Export Disk was originally the only service offered by AWS for data transfer by mail. Disk supports transfers data directly onto and off of storage devices you own using the Amazon high-speed internal network.

Overview of AWS Import/Export Disk

AWS Import/Export Disk (Disk) accelerates transferring data between the AWS cloud and portable storage devices that you mail to us. Disk is a good choice if you have 16 terabytes (TB) or less of data to import into Amazon Simple Storage Service (Amazon S3), Amazon Glacier, or Amazon Elastic Block Store (Amazon EBS). You can also export data from Amazon S3 with Disk.

Your data load typically begins the next business day after your storage device arrives at AWS. After the data export or import completes, we return your storage device. For most data sets, Disk can be significantly faster than Internet transfer and more cost-effective than upgrading your connectivity. >Disk does not support export from Amazon EBS or Amazon Glacier.

Important

This guide assumes that you are an Amazon S3 user, an Amazon Glacier user, or an Amazon Elastic Compute Cloud (EC2) user for Amazon EBS data. If that is not the case, see the [Amazon S3 Getting Started Guide](#), [Amazon Glacier Developer Guide](#), or [Amazon EC2 Getting Started Guide](#) for Amazon EBS data.

As an alternative, AWS Snowball (Snowball), a new feature of AWS Import/Export, is generally faster and cheaper to use than Disk for importing data into Amazon Simple Storage Service (Amazon S3). For more information on Snowball, see the [AWS Snowball User's Guide](#).

Disk Functionality

Using Disk provides the following functionality:

- Migrate up to 16 TB of data per job into the AWS Cloud—Mail us one or more storage devices with your data on them data. We load your data to the AWS cloud, and then return your storage device(s).
- Content Distribution—We can export data from Amazon S3 onto one or more of your storage devices for delivery to your customers.

- Direct Data Interchange—If you regularly receive content on portable storage devices from your business associates, you can have them send it directly to AWS for import into Amazon EBS, Amazon S3, or Amazon Glacier.
- Off-Site Backup—Send full or incremental backups to Amazon S3 for reliable and redundant off-site storage.
- Disaster Recovery—In the event you need to quickly retrieve a large backup stored in Amazon S3, use AWS Import/Export to transfer the data to a portable storage device and deliver it to your site.

Are you a first-time user of Disk?

If you are a first-time user of the Disk, these links will help you get started quickly.

- [Creating Amazon S3 Import Jobs \(p. 28\)](#)
- [Creating Amazon EBS Import Jobs \(p. 30\)](#)
- [Creating Amazon Glacier Import Jobs \(p. 33\)](#)
- [Creating Amazon S3 Export Jobs \(p. 52\)](#)

Available Tools, Libraries, and Interfaces

AWS Import/Export provides a command line tool for creating import and export jobs, without writing any code. For applications requiring programming interface, AWS SDK provides Java, .NET and PHP libraries to create and manage import and export jobs. You can also optionally use the REST interface when working with AWS Import/Export.

There are also third party tools that support AWS Import/Export. For more information, go to <http://aws.amazon.com/importexport/disk/tools>.

AWS Import/Export Disk Jobs

Topics

- [Jobs Overview \(p. 2\)](#)
- [Encryption \(p. 3\)](#)
- [Job Types \(p. 3\)](#)
- [Related Concepts \(p. 5\)](#)

This section describes AWS Import/Export Disk jobs and job types.

Jobs Overview

You create an AWS Import/Export job in two steps. First, you submit a job request to AWS. Each AWS Import/Export job corresponds to exactly one storage device. You submit your job request by using the AWS Import/Export command line tool, which requires no programming. If your application requires a programmatic interface, you can use the AWS SDK or the REST API. Second, you send your storage device to AWS. We use our high bandwidth network to import your data into AWS or export data from AWS to your storage device, then return your device.

You must submit a separate job request for each device.

Note

You can send multiple devices in the same shipment. If you do, however, there are specific guidelines and limitations that govern what devices you can ship and how your devices

must be packaged. If your shipment is not prepared and packed correctly, AWS Import/Export cannot process your jobs. Regardless of how many devices you ship at one time, you must submit a separate job request for each device. For complete details about packaging requirements when shipping multiple devices, see [Shipping Multiple Devices \(p. 65\)](#).

Encryption

For added security, AWS Import/Export supports the following data encryption methods:

PIN-code encryption

Hardware-based device encryption that uses a physical PIN pad for access to the data.

TrueCrypt software encryption

Disk encryption using TrueCrypt, which is an open-source encryption application.

AWS Import/Export requires encryption with all export jobs. For export jobs, you can use either hardware encryption or software encryption. Optionally, you can use both methods.

We strongly recommend encrypting your data for all import jobs.

For import to Amazon S3, AWS supports device-level encryption using PIN-code encryption or TrueCrypt software encryption, or both. If you prefer, you can encrypt the file objects on your device using any software encryption you choose. AWS must be able to list the objects on your device without having to decrypt the device, but we do not decrypt the objects.

For import to Amazon Glacier or Amazon EBS, AWS supports device-level encryption using PIN-code encryption or software encryption of your choice, or both. AWS does not decrypt software-encrypted devices when importing to Amazon Glacier or Amazon EBS; rather we import a direct copy of the complete device.

When you create an import or export job, you must provide the PIN code or password for the encryption method you choose. For more information, see [Encrypting Your Data \(p. 61\)](#).

Job Types

For each job type, the following table summarizes the source of the data, either your device or an Amazon S3 bucket, where the data will be moved to, and the result you can expect when the job is complete.

Import to Amazon S3		
Source	Target	Result
<ul style="list-style-type: none"> Files on a device file system. One device per import job. We recommend encrypting your data. See Encrypting Your Data (p. 61). 	<ul style="list-style-type: none"> Objects in an existing Amazon S3 bucket. One bucket per import job. If you encrypted your data, AWS decrypts the data before performing the import. 	<ul style="list-style-type: none"> One object for each file. Files and directories can be excluded or renamed using manifest file options. AWS erases your device after every import job prior to shipping.

Export from Amazon S3		
Source	Target	Result
<ul style="list-style-type: none"> • Objects in one or more Amazon S3 buckets. • You can export from multiple buckets for each export job. • AWS requires device encryption on all export jobs. See Encrypting Your Data (p. 61). 	<ul style="list-style-type: none"> • Files on your storage device. • One device per export job. • AWS formats your device. • AWS copies your data to an encrypted device or to an encrypted file container on your device, or both. 	<ul style="list-style-type: none"> • One file for each object. • You can export from more than one bucket and specify which files to export using manifest file options. • You will need to use one of the supported encryption mechanisms to access the encrypted files.

Import to Amazon Glacier		
Source	Target	Result
<ul style="list-style-type: none"> • Entire device. • One device per import job. • We recommend encrypting your device. • If you send a PIN-code protected device, you must provide the PIN code with your job request. 	<ul style="list-style-type: none"> • One archive in an existing Amazon Glacier vault. • One archive per import job. • If you send a PIN-code protected device, AWS will use the PIN code you provide to access the device. • If your data is encrypted using software encryption, AWS does not decrypt your data. 	<ul style="list-style-type: none"> • A device image stored as a single archive. • The device's file system is never mounted. • AWS erases your device after every import job prior to return shipping.

Import to Amazon EBS		
Source	Target	Result

Import to Amazon EBS		
<ul style="list-style-type: none">• Entire device.• One device per import job.• We recommend encrypting your device.	<ul style="list-style-type: none">• One Amazon EBS snapshot.• One snapshot per import job.• If you send a PIN-code protected device, AWS will use the PIN code you provide to access the device.• If your data is encrypted using software encryption, AWS does not decrypt your data.	<ul style="list-style-type: none">• A device image stored as a single snapshot.• The device's file system won't be automatically mounted to an Amazon EC2 instance.• If the device was encrypted, the device image is encrypted.• AWS erases your device after every import job prior to return shipping.

Important

Disk now supports Amazon EBS imports of 16 TB. Previously, only 1 TB imports were supported.

An Amazon EBS import creates a virtual copy of your device as a single image. The maximum size of an Amazon EBS volume is 16 TB. Note that the maximum capacity of a device is independent of the amount of data stored on the device.

Related Concepts

- To learn more about Amazon S3, see [Introduction to Amazon S3](#).
- To learn more about Amazon EBS, go to [Amazon Elastic Block Store](#).
- To learn more about Amazon Glacier, go to [Amazon Glacier](#).
- If you need assistance with your AWS Import/Export job, contact [AWS Support Center](#).

Pricing

You are not charged for the time required to erase your device following an import, and you are not charged for the time required to decrypt or encrypt your device. You can approximate your costs by using the [AWS Import/Export Disk Calculator](#).

Return Shipping

Return shipping charges are dependent on the location of your AWS storage and your return shipping destination. Any applicable return shipping expenses will be charged once your package is ready for shipment to your return shipping address. You can estimate your return shipping costs by using the [AWS Import/Export Calculator](#).

Getting Started

The Getting Started section provides step-by-step instructions to set up and create an AWS Import/Export job.

Before You Use AWS Import/Export

AWS Import/Export supports data upload and download from Amazon Simple Storage Service (Amazon S3) buckets, and data upload to Amazon Elastic Block Store (Amazon EBS) snapshots and Amazon Glacier vaults. The AWS Import/Export Getting Started steps assume you already use Amazon S3, Amazon EBS, or Amazon Glacier.

To upload or download data from Amazon S3, you need to have an existing Amazon S3 account and be familiar with Amazon S3. For more information, see the [Amazon S3 Getting Started Guide](#).

To upload data to an Amazon EBS snapshot for Amazon EC2, you need to have an existing Amazon EC2 instance to associate with the data, and an Amazon S3 bucket to store AWS Import/Export log files. For more information about Amazon EC2 and Amazon EBS, see [Amazon Elastic Block Store](#).

To upload data to an Amazon Glacier vault, you need to have an Amazon Glacier vault to associate with the data, and an Amazon S3 bucket to store AWS Import/Export log files. For more information about Amazon Glacier, see [Amazon Glacier](#).



Next [Sign Up for AWS](#) (p. 6).

Sign Up for AWS



To use AWS Import/Export, you need an AWS account. If you already have an AWS account, you are automatically signed up for the AWS Import/Export service. If you do not have an AWS account, go to the [Amazon Web Services](#) home page to sign up.

Next: [Download the AWS Import/Export Web Service Tool](#) (p. 7).

Download the AWS Import/Export Web Service Tool



You can create an AWS Import/Export job using a command line tool, which requires no programming. If your application requires programmatic access, you can use the AWS SDK for Java or the REST API to send requests to AWS. This getting started uses the AWS Import/Export Web Service Tool, an open-source command line tool for creating and managing your import and export jobs.

Important

The AWS Import/Export Web Service Tool requires Java SE 8 to run.

To download the AWS Import/Export Web Service Tool

1. Click <http://awsimportexport.s3.amazonaws.com/importexport-webservice-tool.zip>.
2. Extract the zipped content to a directory on your computer.

You also have the option of using the AWS Command Line Interface (AWS CLI) to create and manage your AWS Import/Export jobs. For information on installing and using the AWS CLI, see [Getting Set Up with the AWS Command Line Interface](#) in the *AWS Command Line Interface User Guide*. The AWS CLI reference for AWS Import/Export commands, along with helpful examples, can be found in the [importexport](#) commands section of the *AWS CLI Reference*.

Your next task is to add your AWS credentials to the `AWSCredentials.properties` file.

Next: [Save Your Credentials to a File](#) (p. 7).

Save Your Credentials to a File



AWS Import/Export uses AWS Identity and Access Management (IAM) to control which users in your AWS account can create, modify, view, or cancel AWS Import/Export jobs. We strongly recommend that you create IAM users and use the credentials for those IAM users to create and manage AWS Import/Export jobs. For more information, see [Controlling Access to AWS Import/Export Disk Jobs](#) (p. 25).

Important

The IAM user that creates an AWS Import/Export job must also have read and write access to the Amazon S3 bucket associated with the job and, for import to Amazon Glacier, the Amazon Glacier vault. That user must have access to the necessary resources until the AWS Import/

Export job is completed. For listings of the specific permissions required, see [Granting Access to Related AWS Resources \(p. 27\)](#).

In this step, you will add your AWS IAM user credentials to the `AWSredentials.properties` file that the AWS Import/Export Web Service Tool provides for you. The following procedure takes you through the necessary steps.

To save your access credentials to a file

1. Locate your IAM access credentials. If you do not have IAM access credentials, you will need to create them or have someone who has permission to administer IAM create them for you. For more information, go to [Administering Access Keys for IAM Users](#).

Note

When you create an access key, it's the only opportunity you have to view and save the secret access key for that user. Make sure you download the access key and save it in a secure location. You will not be able to view the secret access key using the AWS Management Console again later; if it becomes unavailable, you will have to create a new access key.

2. Go to the directory where you installed the AWS Import/Export Web Service tool.
3. Open the `AWSredentials.properties` file from this directory using any text editor.
4. Update the file by providing your `accessKeyId` and `secretKey`. The following is an example of a credentials file.

```
# Fill in your AWS Access Key ID and Secret Access Key
# http://aws.amazon.com/security-credentials
accessKeyId:<Your Access Key ID>
secretKey:<Your Secret Key>
```

5. Save the file.

Important

To protect your credentials, be sure to save the file to a secure location. This Getting Started assumes that you saved your credentials in the same directory as the Import/Export Web Service Tool, so that directory should be in a secure location. If your credentials file is in a different location, you can modify your command line to reference that location.

Now, you are ready to create a sample import or export job.

Next:

[Create an Import Job \(p. 8\)](#).

[Create Your First Amazon S3 Export Job \(p. 21\)](#).

Create an Import Job



You can create an import job to move data from your hardware storage device to an Amazon S3 bucket, an Amazon EBS snapshot, or an Amazon Glacier vault.

The following sections present the steps to accomplish the tasks for each type of import.

- To upload data to an Amazon S3 bucket: [Create Your First Amazon S3 Import Job \(p. 9\)](#).
- To upload data to an Amazon EBS snapshot: [Create Your First Amazon EBS Import Job \(p. 12\)](#).
- To upload data to an Amazon Glacier vault: [Create Your First Amazon Glacier Import Job \(p. 16\)](#).

Create Your First Amazon S3 Import Job

With an Amazon S3 import, AWS uploads individual files from your device to objects in an Amazon S3 bucket.

We recommend encrypting your data prior to sending it to us. For import to Amazon S3, you can provide a PIN-code protected device, or you can encrypt your data by using TrueCrypt software encryption, or both. You must provide the PIN code or password in the manifest when you create the import job. For more information, see [Encrypting Your Data \(p. 61\)](#).

If you encrypt your data, the data is decrypted using the PIN code or TrueCrypt password you provide. Your device's file system is mounted on an AWS Import/Export data loading station and each file is uploaded as an object in your Amazon S3 bucket. You can optionally manage directories and filenames as part of the load process.

After the import operation completes, AWS Import/Export erases your device before shipping it.

You must submit a separate job request for each device.

Note

You can send multiple devices in the same shipment. If you do, however, there are specific guidelines and limitations that govern what devices you can ship and how your devices must be packaged. If your shipment is not prepared and packed correctly, AWS Import/Export cannot process your jobs. Regardless of how many devices you ship at one time, you must submit a separate job request for each device. For complete details about packaging requirements when shipping multiple devices, see [Shipping Multiple Devices \(p. 65\)](#).

For more information, see [Guidelines and Limitations \(p. 125\)](#)

You must submit a separate job request for each device.

To create an Amazon S3 import job

1. Create a manifest file.
2. Prepare your device for shipping.
3. Send a `CreateJob` request.

AWS Import/Export sends a response with a `SIGNATURE` file and job information.

4. Copy the `SIGNATURE` file to your device.
5. Send a [GetShippingLabel \(p. 119\)](#) request.
6. Ship your device.

Tip

You can create an Amazon S3 bucket using AWS Management Console. For more information, go to <http://docs.aws.amazon.com/AmazonS3/latest/UG/CreatingABucket.html>.

These steps assume that you have signed up for an AWS account and created your `AWScredentials.properties` file as described in the earlier tasks.

Create a Manifest File

The manifest file is a YAML-formatted text file that tells AWS how to handle your job. It consists of a set of name-value pairs that supply required information, such as your device ID, TrueCrypt password, and return address. For more information about YAML, go to <http://yaml.org>.

The AWS Import/Export Web Service Tool provides three examples of manifest files that you can modify for your import and export jobs.

1. Go to the `Examples` folder in the folder where you installed the AWS Import/Export Web Service Tool.
2. Open the `S3-import-manifest.txt` file in a text editor.

```
manifestVersion:2.0
generator:Text editor
bucket:[Enter import bucket]
deviceId:[Enter device serial number]
eraseDevice:yes
notificationEmail: [Email addresses, semicolon separated]
pinCode: [Optional - PIN code]
trueCryptPassword: [Optional - password]
acl:private
serviceLevel:standard
returnAddress:
  name:[Your name]
  company:[Optional - your company]
  street1:[Your street]
  street2:[Optional - additional street info]
  street3:[Optional - additional street info]
  city:[Your city]
  stateOrProvince:[Required for USA and Canada. Your state or province.]
  postalCode:[Your postal code]
  country:[Your country]
  phoneNumber: [Contact number]
```

Important

When shipping devices internationally except within the European Union you must include the customs option in the manifest. For more information about the customs manifest option, see [Customs Manifest File Option \(p. 74\)](#).

3. In the file, replace all text in brackets with the appropriate values. Delete any unused optional lines.
4. Provide the name of the existing Amazon S3 bucket where you want to upload your data. AWS Import/Export loads the data to a single bucket. For the `bucket` option provide only the name of your bucket, for example `s3examplebucket`.
5. For the `eraseDevice` field, specify `yes` to acknowledge that AWS will erase your device following the import operation before shipping it. If the `eraseDevice` field is missing or if the value is not `yes`, the job request will fail.
6. For the `notificationEmail` field, enter one or more email addresses, separated by semicolons, so we can contact you if there are any problems. If the `notificationEmail` field is missing or empty, the job request will fail.
7. Save the file as `MyS3ImportManifest.txt` in the same folder as your `AWScredentials.properties` file.

For more information about manifest file options, see [Creating Import Manifests \(p. 35\)](#).

Prepare Your Device for Import

Next, you prepare your device for import.

1. Optionally encrypt your data by using one of the encryption mechanisms supported by AWS.

For added security, we strongly recommend that you encrypt your data. You can encrypt the drive or create an encrypted file container on your device. For more information, see [Encrypting Your Data](#) (p. 61).

2. Verify that all file names are valid. File names must use standard ASCII or UTF-8 character encoding. Any file with a name that is not a valid ASCII or UTF-8 string is not imported.
3. Copy your data to the device. Do not ship the only copy of your data. AWS will erase your device, even if we cannot perform an import.

If your device is not properly prepared for import, AWS might erase the device and return it without processing the request. If we are unable to erase the data on the device, we will schedule it for destruction and our support team will contact you using the email address specified in the manifest file. For more information, see [the section called “Shipping Your Storage Device”](#) (p. 58).

Send a CreateJob Request

Now that you have your credentials file and manifest file in place, you send a `CreateJob` request to AWS Import/Export. You submit a separate `CreateJob` request for each device.

1. Open a command prompt (or, on a Mac, use the Terminal application), and change to the directory where you unzipped the AWS Import/Export tool.
2. Enter the following `CreateJob` request on the command line.

```
CmdPrompt>java -jar lib/AWSImportExportWebServiceTool-1.0.jar CreateJob
Import MyS3ImportManifest.txt .
```

The `CreateJob` request includes a directory name for where you want the `SIGNATURE` file saved. In this example, the closing period (`.`) at the end of the command refers to the current directory. Either include the period, as shown above, or replace it with a directory path.

If there is an error, AWS Import/Export returns an error message.

If there are no errors in the request, AWS Import/Export returns a `JOB CREATED` response. The following is a sample response.

```
JOB CREATED
JobId: ABCDE
JobType: Import
*****
* AwsShippingAddress *
*****
Please call GetShippingLabel API to retrieve shipping address
*****
* SignatureFileContents *
*****
version:2.0
signingMethod:HmacSHA1
jobId:ABCDE-VALIDATE-ONLY
signature:cbfdUuhhmauYS+ABC15R9heDK/V=
Writing SignatureFileContents to cmdPrompt\.\SIGNATURE
```

Your job expires after 30 days. If you do not send a device, there is no charge.

Copy the Signature File

In response to your `CreateJob` request, AWS writes a file named `SIGNATURE` to your computer. The `SIGNATURE` file contains a signature, which is an encrypted string that allows us to authenticate your device and match it to your job request.

Locate the `SIGNATURE` file in the directory you specified in your job request and copy it to the root directory of your storage device. The file name must be named `SIGNATURE` and it must be in the device's root directory.

Each device you send must include the unique `SIGNATURE` file for that device and that `JOBID`. AWS Import/Export validates the `SIGNATURE` file on your storage device before starting the data load. If the `SIGNATURE` file is missing or invalid (for example, if it is associated with a different job request), AWS Import/Export will not perform the data load and we will return your storage device.

Send a `GetShippingLabel` Request

Generate, print out, and attach your pre-paid shipping label through the AWS Import/Export Web Service Tool's `GetShippingLabel` action. For detailed instructions, see [Generating Your Pre-Paid Shipping Label \(p. 63\)](#).

Ship Your Device

It is essential that you prepare your device properly before shipping.

Note

You can send multiple devices in the same shipment. If you do, however, there are specific guidelines and limitations that govern what devices you can ship and how your devices must be packaged. If your shipment is not prepared and packed correctly, AWS Import/Export cannot process your jobs. Regardless of how many devices you ship at one time, you must submit a separate job request for each device. For complete details about packaging requirements when shipping multiple devices, see [Shipping Multiple Devices \(p. 65\)](#).

1. Pack the *power supply*, *power cable*, and *interface cables* with your storage device. Without these, we can't transfer your data and will return your device.
2. Generate, print out, and attach your pre-paid shipping label.

For detailed instructions for preparing and shipping your device, see [Shipping Your Storage Device \(p. 58\)](#).

3. Arrange for UPS to pick up your package by calling them directly or take your package to a UPS package drop off facility to be shipped to AWS. You will not have to pay UPS for the shipping charges but AWS will add these charges to the fee charged for processing your device. If you are shipping internationally, see [International Considerations for Mailing Your Storage Device \(p. 67\)](#).

Important

Your job expires after 30 days. If you do not send a device, there is no charge. You are billed only after AWS Import/Export receives your device. If we receive your package after your job expires, we will return your device. You will only be charged for the shipping fees, if any.

Now, you have explored the getting started steps of AWS Import/Export. To learn more about the product, see [Where Do I Go from Here? \(p. 24\)](#).

Create Your First Amazon EBS Import Job

An Amazon EBS import creates a virtual copy of your device as a single image. In such an import job, your device's file system won't be automatically mounted to an Amazon EC2 instance. Note that the

maximum size of an Amazon EBS volume is 16 TB. Note also that the maximum capacity of a device is independent of the amount of data stored on the device.

If your device is encrypted, then the device image is also encrypted. AWS does not decrypt your device before importing the device image.

After the import operation completes, AWS Import/Export erases your device before shipping it.

You must submit a separate job request for each device.

Note

You can send multiple devices in the same shipment. If you do, however, there are specific guidelines and limitations that govern what devices you can ship and how your devices must be packaged. If your shipment is not prepared and packed correctly, AWS Import/Export cannot process your jobs. Regardless of how many devices you ship at one time, you must submit a separate job request for each device. For complete details about packaging requirements when shipping multiple devices, see [Shipping Multiple Devices \(p. 65\)](#).

For more information, see [Guidelines and Limitations \(p. 125\)](#).

To create an Amazon EBS import job

1. Create a manifest file.
2. Prepare your device for shipping.
3. Send a `CreateJob` request.

AWS Import/Export sends a response and a PDF file with a barcode and job information.

4. Attach the signature barcode to your device.
5. Send a [GetShippingLabel \(p. 119\)](#) request.
6. Ship your device.

In your request, you must identify an existing Amazon S3 bucket for logging. You must have write permissions on the bucket.

Tip

You can create a bucket using AWS S3 Console. For more information, go to <http://docs.aws.amazon.com/AmazonS3/latest/UG/CreatingABucket.html>.

These steps assume that you have signed up for an AWS account and created your `AWSCredentials.properties` file as described in the earlier tasks.

Create a Manifest File

The manifest file is a YAML-formatted text file that tells AWS how to handle your job. It consists of a set of name-value pairs that supply required information, such as your device ID, log bucket, and return address. For more information about YAML, go to <http://yaml.org>.

The AWS Import/Export Web Service Tool provides three examples of manifest files that you can modify for your import and export jobs.

1. Go to the `Examples` folder in the folder where you installed the AWS Import/Export Web Service Tool.
2. Open the `ebs-import-manifest.txt` file in a text editor.

```
manifestVersion: 3.0
deviceId: [Enter device serial number]
pinCode: [Optional - PIN code]
logPrefix: [Optional - a prefix for your log bucket]
```

```
logBucket:[Your log bucket]
generator: AWS Import/Export Command Line Tool
eraseDevice:yes
notificationEmail: [Email addresses, semicolon separated]
returnAddress:
  name:[Your name]
  company:[Optional - your company]
  street1:[Your street]
  street2:[Optional - additional street info]
  street3:[Optional - additional street info]
  city:[Your city]
  stateOrProvince:[Required for USA and Canada. Your state or province.]
  postalCode:[Your postal code]
  country:[Your country]
  phoneNumber:[Contact number]
operations:
  - destination: ebs-snapshot
    source: device
    region: us-east-1 | us-west-1 | us-west-2 | eu-west-1 | ap-
southeast-1
    deviceCapacityGreaterThan1TB: [yes/no]
```

Important

When shipping devices internationally except within the European Union you must include the customs option in the manifest. For more information about the customs-related manifest options, see [Customs Manifest File Option \(p. 74\)](#).

3. In the file, replace all text in brackets with the appropriate values. Delete any unused optional lines.
4. Provide the name of the existing Amazon S3 bucket for logging. For the `logBucket` option, provide only the name of your bucket, for example `s3examplebucket`.
5. For the `eraseDevice` field, specify `yes` to acknowledge that AWS will erase your device following the import operation before shipping it. If the `eraseDevice` field is missing or if the value is not `yes`, the job request will fail.
6. For the `notificationEmail` field, enter one or more email addresses, separated by semicolons, so we can contact you if there are any problems. If the `notificationEmail` field is missing or empty, the job request will fail.
7. The `destination` subfield in the `operations` option specifies that the data is imported into an Amazon EBS snapshot. Change the `region` parameter to specify the correct region. For more information about regions go to the [AWS Import/Export Disk Calculator](#). For more information about other `operations` options, see [Creating Import Manifests \(p. 35\)](#).
8. The `deviceCapacityGreaterThan1TB` subfield specifies if the device capacity is larger than 1 TB. Disk now supports Amazon EBS imports of 16 TB.
9. Save the file as `MyEBSImportManifest.txt` in the same folder as your `AWSCredentials.properties` file.

For more information about manifest file options, see [Manifest File Options Reference \(p. 71\)](#).

Prepare Your Device for Import

Next, you need to prepare your device for import.

1. Optionally encrypt your data. For added security, we strongly recommend that you encrypt your data. If your device requires a PIN code for access, you must provide the PIN code to enable AWS to access the device. The entire device image is imported. AWS does not decrypt your device.
2. Copy your data to the device. Do not ship the only copy of your data. AWS will erase your device, even if we cannot perform an import.

Send a CreateJob Request

Now that you have your credentials file and manifest file in place, you send a `CreateJob` request to AWS Import/Export.

You send a separate `CreateJob` request for each device.

1. Open a command prompt (or, on a Mac, use the Terminal application), and change to the directory where you unzipped the AWS Import/Export tool.
2. Enter the following `CreateJob` request on the command line.

```
CmdPrompt>java -jar lib/AWSImportExportWebServiceTool-1.0.jar CreateJob
Import MyEBSImportManifest.txt .
```

The `CreateJob` request includes a directory name for where you want the shipping instructions PDF file saved. In this example, the closing period (.) at the end of the command refers to the current directory. Either include the period, as shown above, or replace it with a directory path.

If there is an error, AWS Import/Export returns an error message.

If there are no errors in the request, AWS Import/Export returns a `JOB CREATED` response. The following is a sample response.

```
JOB CREATED

JobId: ABCDE
JobType: Import

Shipping instructions saved to C:\DirectoryName\.\shipping-instructions-
ABCDE.pdf

SHIPPING INSTRUCTIONS:

1. Open the Shipping Instructions file with a PDF reader.
2. Print out the Shipping Instructions which includes the AWS Shipping
   Address
   and Signature barcode.
3. Follow the directions in the PDF file, which includes cutting out and
   securely
   attaching the Signature barcode to your device.

*IMPORTANT* - Failure to attach the Signature barcode to your device will
prevent
AWS from loading your data. This barcode can only be used with 1 device.
```

Your job expires after 30 days. If you do not send a device, there is no charge.

Attach the Signature Barcode

After the `CreateJob` request completes successfully, AWS Import/Export places the shipping instructions and a barcode as a PDF file in the directory you specified in the `CreateJob` request. AWS Import/Export also places a copy of the PDF file in the Amazon S3 bucket that you specified with the `logBucket` manifest option. The name of the PDF file is `shipping-instructions-YOURJOBID.pdf` where `YOURJOBID` is the name of the job for your request.

Print the PDF and attach the signature barcode securely to your device.

You must submit a separate job request for each device, and each job request generates a unique barcode. AWS Import/Export validates the barcode on your storage device before starting the data load. If the barcode is invalid (for example, it doesn't match your device), it's missing, or it's illegible, AWS Import/Export will not perform the data load and we will return your storage device.

Important

Attach the signature barcode securely to your device, with tape on all four sides. Do not delete, alter, or obscure the signature barcode in any way. If the signature barcode is separated from your device, we cannot validate it and we will return your device without performing the data load.

Send a `GetShippingLabel` Request

Generate, print out, and attach your pre-paid shipping label through the AWS Import/Export Web Service Tool's `GetShippingLabel` action. For detailed instructions, see [Generating Your Pre-Paid Shipping Label \(p. 63\)](#).

Ship Your Device

It is essential that you prepare your device properly before shipping.

Note

If an error occurs during the `CreateJob` process, an error message will indicate the cause. You can then either get the shipping instructions from the Amazon S3 bucket, or you can retry the download using the `GetShipInfo` operation. For more information, see [Getting Shipping Information \(p. 69\)](#).

1. Attach the signature barcode securely to your device.
2. Pack the *power supply*, *power cable*, and *interface cables* with your storage device. Without these, we can't transfer your data and will return your device.
3. Generate, print out, and attach your pre-paid shipping label.

For detailed instructions for preparing and shipping your device, see [Shipping Your Storage Device \(p. 58\)](#).

4. Arrange for UPS to pick up your package by calling them directly or take your package to a UPS package drop off facility to be shipped to AWS. You will not have to pay UPS for the shipping charges but AWS will add these charges to the fee charged for processing your device. If you are shipping internationally, see [International Considerations for Mailing Your Storage Device \(p. 67\)](#).

Important

Your job expires after 30 days. If you do not send a device, there is no charge. You are billed only after AWS Import/Export receives your device. If we receive your package after your job expires, we will return your device. You will only be charged for the shipping fees, if any.

If your device is not properly prepared for shipping and import, AWS might need to erase the device and return it without processing the request. If we are unable to erase the data on the device, we will schedule it for destruction and our support team will contact you using the email address specified in the manifest file. For more information, see [the section called "Shipping Your Storage Device" \(p. 58\)](#).

Now, you have explored the getting started steps of AWS Import/Export. To learn more about the product, see [Where Do I Go from Here? \(p. 24\)](#).

Create Your First Amazon Glacier Import Job

With an Amazon Glacier import job, AWS creates a virtual copy of your device as a single image. The device's file system is never mounted. The entire image for one device is uploaded to one Amazon

Glacier archive in an existing Amazon Glacier vault. If your device is encrypted, then the device image is also encrypted. AWS does not decrypt your device before importing the device image.

After the import operation completes, AWS Import/Export erases the device before shipping it.

You must submit a separate job request for each device.

Note

You can send multiple devices in the same shipment. If you do, however, there are specific guidelines and limitations that govern what devices you can ship and how your devices must be packaged. If your shipment is not prepared and packed correctly, AWS Import/Export cannot process your jobs. Regardless of how many devices you ship at one time, you must submit a separate job request for each device. For complete details about packaging requirements when shipping multiple devices, see [Shipping Multiple Devices \(p. 65\)](#).

For more information, see [Guidelines and Limitations \(p. 125\)](#)

To create an Amazon Glacier import job

1. Create a manifest file.
2. Prepare your device for shipping.
3. Send a `CreateJob` request.

AWS Import/Export sends a response and a PDF file with a barcode and job information.

4. Attach the signature barcode to your device.
5. Send a [GetShippingLabel \(p. 119\)](#) request.
6. Ship your device.

In your request, you must identify an existing Amazon S3 bucket for logging. You must have write permissions on the bucket.

Tip

You can create a bucket using AWS S3 Console. For more information, go to <http://docs.aws.amazon.com/AmazonS3/latest/UG/CreatingABucket.html>.

These steps assume that you have signed up for an AWS account and created your `AWScredentials.properties` file as described in the earlier tasks.

Create a Manifest File

The manifest file is a YAML-formatted text file that instructs AWS about how to handle your job. It consists of a set of name-value pairs that supply required information such as your device ID, log bucket, return address, and so on. For more information about YAML, go to <http://yaml.org>.

The AWS Import/Export Web Service Tool provides examples of manifest files that you can modify for your import and export jobs.

1. Go to the `Examples` folder in the folder where you installed the AWS Import/Export Web Service Tool.
2. Open the `glacier-import-manifest.txt` file in a text editor.

```
manifestVersion: 3.0
deviceId:[Enter device serial number]
pinCode: [Optional - PIN code]
logPrefix: [Optional - a prefix for your log bucket]
logBucket:[Your log bucket]
generator: AWS Import/Export Command Line Tool
eraseDevice: yes
```

```
notificationEmail: [Email addresses, semicolon separated]
returnAddress:
  name:[Your name]
  company:[Optional - your company]
  street1:[Your street]
  street2:[Optional - additional street info]
  street3:[Optional - additional street info]
  city:[Your city]
  stateOrProvince:[Required for USA and Canada. Your state or province.]
  postalCode:[Your postal code]
  country:[Your country]
  phoneNumber:[Contact number]
operations:
  - destination: glacier
    source: device
    region: [us-east-1/us-west-1/us-west-2/eu-west-1]
    vaultName: [Your Amazon Glacier vault]
    archiveComment: [Your description for the new Amazon Glacier archive]
```

Important

When shipping devices internationally except within the European Union you must include the customs option in the manifest. For more information about the customs-related manifest options, see [Customs Manifest File Option \(p. 74\)](#).

3. In the file, replace all text in brackets with the appropriate values. Delete any unused optional lines.
4. Provide the name of the existing Amazon S3 bucket for logging. For the `logBucket` option, provide only the name of your bucket, for example `s3examplebucket`.
5. For the `eraseDevice` field, specify `yes` to acknowledge that AWS will erase your device following the import operation before shipping it. If the `eraseDevice` field is missing or if the value is not `yes`, the job request will fail.
6. For the `notificationEmail` field, enter one or more email addresses, separated by semicolons, so we can contact you if there are any problems. If the `notificationEmail` field is missing or empty, the job request will fail.
7. The `destination` subfield in the `operations` option specifies that the data is imported into an Amazon Glacier vault. Change the `region` parameter to specify the correct region. For more information about regions go to the [AWS Import/Export Disk Calculator](#). For more information about how to specify the `operations` option, see [Creating Import Manifests \(p. 35\)](#).
8. Save the file as `MyGlacierImportManifest.txt` in the same folder as your `AWSCredentials.properties` file.

For more information about manifest file options, see [Manifest File Options Reference \(p. 71\)](#).

Prepare Your Device for Import

Next, you need to prepare your device for import.

1. Optionally encrypt your data. For added security, we strongly recommend that you encrypt your data. If your device requires a PIN code for access, you must provide the PIN code to enable AWS to access the device. The entire device image is imported. AWS does not decrypt your device.
2. Copy your data to the device. Do not ship the only copy of your data. AWS will erase your device, even if we cannot perform an import.

If your device is not properly prepared for shipping and import, AWS might erase the device and return it without processing the request. If we are unable to erase the data on the device, we will schedule it for destruction and our support team will contact you using the email address specified in the manifest file. For more information, see [the section called "Shipping Your Storage Device" \(p. 58\)](#).

Send a CreateJob Request

Now that you have your credentials file and manifest file in place, you send a `CreateJob` request to AWS Import/Export.

1. Open a command prompt (or, on a Mac, use the Terminal application), and change to the directory where you unzipped the AWS Import/Export tool.
2. Enter the following `CreateJob` request on the command line.

```
CmdPrompt>java -jar lib/AWSImportExportWebServiceTool-1.0.jar CreateJob
Import MyGlacierImportManifest.txt .
```

The `CreateJob` request includes a directory name for where you want the shipping instructions PDF file saved. In this example, the closing period (.) at the end of the command refers to the current directory. Either include the period, as shown above, or replace it with a directory path.

If there is an error, AWS Import/Export returns an error message.

If there are no errors in the request, AWS Import/Export returns a `JOB CREATED` response. The following is a sample response.

```
JOB CREATED

JobId: ABCDE
JobType: Import

Shipping instructions saved to C:\DirectoryName\.\shipping-instructions-
ABCDE.pdf

SHIPPING INSTRUCTIONS:

1. Open the Shipping Instructions file with a PDF reader.
2. Print out the Shipping Instructions which includes the AWS Shipping
Address
and Signature barcode.
3. Follow the directions in the PDF file, which includes cutting out and
securely
attaching the Signature barcode to your device.

*IMPORTANT* - Failure to attach the Signature barcode to your device will
prevent
AWS from loading your data. This barcode can only be used with 1 device.
```

Attach the Signature Barcode

After the `CreateJob` request completes successfully, AWS Import/Export places the shipping instructions and a barcode as a PDF file in the directory you specified in the `CreateJob` request. AWS Import/Export also places a copy of the PDF file in the Amazon S3 bucket that you specified with the `logBucket` manifest option. The name of the PDF file is `shipping-instructions-YOURJOBID.pdf` where *YOURJOBID* is the name of the job for your request.

Print the `shipping-instructions-YOURJOBID` PDF and attach the signature barcode securely to your device.

You must submit a separate job request for each device, and each job request generates a unique barcode. AWS Import/Export validates the barcode on your storage device before starting the data

load. If the barcode is invalid (for example, it doesn't match your device), it's missing, or it's illegible, AWS Import/Export will not perform the data load and we will return your storage device.

Important

Attach the signature barcode securely to your device, with tape on all four sides. Do not delete, alter, or obscure the signature barcode in any way. If the signature barcode is separated from your device, we cannot validate it and we will return your device without performing the data load.

Send a `GetShippingLabel` Request

Generate, print out, and attach your pre-paid shipping label through the AWS Import/Export Web Service Tool's `GetShippingLabel` action. For detailed instructions, see [Generating Your Pre-Paid Shipping Label \(p. 63\)](#).

Ship Your Device

It is essential that you prepare your device properly before shipping.

Note

If an error occurs during the `CreateJob` process, an error message will indicate the cause. You can then either get the shipping instructions from the Amazon S3 bucket, or you can retry the download using the `GetShipInfo` operation. For more information, see [Getting Shipping Information \(p. 69\)](#).

1. Attach the signature barcode securely to your device.
2. Pack the *power supply*, *power cable*, and *interface cables* with your storage device. Without these, we can't transfer your data and will return your device.
3. Send a [GetShippingLabel \(p. 119\)](#) request.
4. Generate, print out, and attach your pre-paid shipping label.

For detailed instructions for preparing and shipping your device, see [Shipping Your Storage Device \(p. 58\)](#).

5. Arrange for UPS to pick up your package by calling them directly or take your package to a UPS package drop off facility to be shipped to AWS. You will not have to pay UPS for the shipping charges but AWS will add these charges to the fee charged for processing your device. If you are shipping internationally, see [International Considerations for Mailing Your Storage Device \(p. 67\)](#).

Important

Your job expires after 30 days. If you do not send a device, there is no charge. You are billed only after AWS Import/Export receives your device. If we receive your package after your job expires, we will return your device. You will only be charged for the shipping fees, if any.

Now, you have explored the getting started steps of AWS Import/Export. To learn more about the product, see [Where Do I Go from Here? \(p. 24\)](#).

Create an Export Job



Now that you're signed up and have downloaded the AWS Import/Export Web Service Tool, you can create an export job to download your data from Amazon S3 buckets to your storage device.

Important

You must create the job and get a response from AWS before you can send your storage device to us for download.

Now, you are ready to submit your create export job request.

[Create Your First Amazon S3 Export Job \(p. 21\)](#).

Create Your First Amazon S3 Export Job

An Amazon S3 export transfers individual objects from Amazon S3 buckets to your device, creating one file for each object. You can export from more than one bucket and you can specify which files to export using manifest file options.

AWS Import/Export requires encryption with all export jobs. You must either provide a PIN-code protected device with hardware encryption or instruct AWS to encrypt the device using TrueCrypt software encryption with a password that you supply. If you provide a PIN-code protected device, you can optionally specify TrueCrypt encryption in addition.

For added security for your data while the device is in transit, AWS Import/Export formats your device before beginning the data load. Any data that is stored on the device when you sent the device to AWS will be lost. AWS copies your data to an encrypted file container on your device. If you specify software encryption, you will need to decrypt the data using TrueCrypt encryption software. For more information, see [Encrypting Your Data \(p. 61\)](#).

Important

If you lose your password or device PIN code, you will not be able to decrypt your device. AWS will not provide your password or PIN code if you lose them.

You must submit a separate job request for each device.

Note

You can send multiple devices in the same shipment. If you do, however, there are specific guidelines and limitations that govern what devices you can ship and how your devices must be packaged. If your shipment is not prepared and packed correctly, AWS Import/Export cannot process your jobs. Regardless of how many devices you ship at one time, you must submit a separate job request for each device. For complete details about packaging requirements when shipping multiple devices, see [Shipping Multiple Devices \(p. 65\)](#).

For more information, see [Guidelines and Limitations \(p. 125\)](#)

Note

Export from Amazon EBS or Amazon Glacier to a storage device is not currently supported.

Tip

You can create a bucket using the AWS Management Console. For more information, go to [Creating a Bucket](#).

To create an Amazon S3 export job

1. Create a manifest file.
2. Prepare your device for shipping.
3. Send a `CreateJob` request.

AWS Import/Export sends a response with a `SIGNATURE` file and job information.

4. Copy the `SIGNATURE` file to your device.
5. Ship your device.

These steps assume that you have signed up for an AWS account and created your `AWScredentials.properties` file as described in the earlier tasks.

Create a Manifest File

The manifest file is a YAML-formatted text file that instructs AWS about how to handle your job. It consists of a set of name-value pairs that supply required information such as your device ID, log bucket, return address, and so on. For more information about YAML, go to <http://yaml.org>.

The AWS Import/Export Web Service Tool provides three examples of manifest files that you can modify for your import and export jobs.

1. Go to the `Examples` folder in the folder where you installed the AWS Import/Export Web Service Tool.
2. Open the `S3-export-manifest.txt` file in a text editor.

```
manifestVersion:2.0
generator:text editor
deviceId:[Enter device serial number]
fileSystem:[NTFS| EXT4]
pinCode: [PIN code]
trueCryptPassword: [password]
serviceLevel:expeditedShipping
targetDirectory:/
recoveryDirectory:EXPORT-RECOVERY
logBucket:[Your log bucket]
notificationEmail: [Email addresses, semicolon separated]
operations:
  - exportBucket:[Your bucket]
returnAddress:
  name:[Your name]
  company:[Optional - your company]
  street1:[Your street]
  street2:[Optional - additional street info]
  street3:[Optional - additional street info]
  city:[Your city]
  stateOrProvince:[Required for USA and Canada. Your state or province.]
  postalCode:[Your postal code]
  country:[Your country]
  phoneNumber:[Contact number]
```

Important

When shipping devices internationally except within the European Union you must include the customs option in the manifest. For more information about the customs-related manifest options, see [Customs Manifest File Option \(p. 74\)](#).

3. In the file, replace all text in brackets with the appropriate values. Delete any unused optional lines.
4. Provide a device PIN code or an encryption password. AWS uses the PIN code or password you provide to encrypt your data. You will need the same PIN code or password to decrypt your data after you receive the data back from AWS. If you do not provide a PIN code or password in your manifest, the `CreateJob` request will fail.
5. Provide the name of the existing Amazon S3 bucket containing the data to export, a bucket name to save your log data. For the `logBucket` and `exportBucket` options provide only the name of the bucket, for example `s3examplebucket`.

Note

For export, your Amazon S3 log bucket and your Amazon S3 export bucket must be in the same region. If your buckets are in different regions, your job request will fail.

6. Save the file as `MyS3ExportManifest.txt` in the same folder as your `AWSCredentials.properties` file.

For more information about manifest file options, see [Creating Export Manifests \(p. 54\)](#).

Send a CreateJob Request

Now that you have your credentials file and manifest file in place, you send a `CreateJob` request to AWS Import/Export. You send a separate `CreateJob` request for each device.

1. Open a command prompt (or, on a Mac, use the Terminal application), and change to the directory where you unzipped the AWS Import/Export tool.
2. Enter the following `CreateJob` request on the command line.

```
cmdPrompt>java -jar lib/AWSImportExportWebServiceTool-1.0.jar CreateJob
Export MyS3ExportManifest.txt .
```

The `CreateJob` request includes a directory name for where you want the `SIGNATURE` file saved. In this example, the closing period (`.`) at the end of the command refers to the current directory. Either include the period, as shown above, or replace it with a directory path.

If there is an error, AWS Import/Export returns an error message.

If there are no errors in the request, AWS Import/Export returns a `JOB CREATED` response. The following is a sample response.

```
JOB CREATED
JobId:    TC44P
JobType:  Export
*****
* AwsShippingAddress *
*****
Please call GetShippingLabel API to retrieve shipping address
*****
* SignatureFileContents *
*****
version:2.0
signingMethod:HmacSHA1
jobId:TC44P
signature:BBAqQ/E+R7bdXRVR1s9vTi5t7Aps=

Writing SignatureFileContents to C:\ImportExportWebServiceTool\.\SIGNATURE
```

Your job expires after 30 days. If you do not send a device, there is no charge.

Copy the Signature File

In response to your `CreateJob` request, AWS writes a file named `SIGNATURE` to your computer. The `SIGNATURE` file contains a signature, which is an encrypted string that allows us to authenticate your device and match it to your job request.

Locate the `SIGNATURE` file in the directory that you specified in your job request and copy it to the root directory of your storage device. The file name must be named `SIGNATURE` and it must be in the device's root directory.

Each device you send must include the unique `SIGNATURE` file for that device and that `JOBID`. AWS Import/Export validates the `SIGNATURE` file on your storage device before starting the data load. If the

`SIGNATURE` file is missing or invalid (for example, if it is associated with a different job request), AWS Import/Export will not perform the data load and we will return your storage device.

Send a `GetShippingLabel` Request

Generate, print out, and attach your pre-paid shipping label through the AWS Import/Export Web Service Tool's `GetShippingLabel` action. For detailed instructions, see [Generating Your Pre-Paid Shipping Label](#) (p. 63).

Ship Your Device

It is essential that you prepare your device properly before shipping. If your device is not properly prepared for shipping and export, AWS might need to erase the device and return it without processing the request. If we are unable to erase the data on the device, we will schedule it for destruction and our support team will contact you using the email address specified in the manifest file. For more information, see [the section called "Shipping Your Storage Device"](#) (p. 58).

1. Pack the *power supply*, *power cable*, and *interface cables* with your storage device. Without these, we can't transfer your data and will return your device.
2. Generate, print out, and attach your pre-paid shipping label.

For detailed instructions for preparing and shipping your device, see [Shipping Your Storage Device](#) (p. 58).

3. Arrange for UPS to pick up your package by calling them directly or take your package to a UPS package drop off facility to be shipped to AWS. You will not have to pay UPS for the shipping charges but AWS will add these charges to the fee charged for processing your device. If you are shipping internationally, see [International Considerations for Mailing Your Storage Device](#) (p. 67).

Important

Your job expires after 30 days. If you do not send a device, there is no charge. You are billed only after AWS Import/Export receives your device. If we receive your package after your job expires, we will return your device. You will only be charged for the shipping fees, if any.

Now, you have explored the getting started steps of AWS Import/Export. To learn more about the product, see [Where Do I Go from Here?](#) (p. 24).

Where Do I Go from Here?

Topics

- [Working with Import Jobs](#) (p. 24)
- [Working with Export Jobs](#) (p. 25)
- [Managing Your Jobs](#) (p. 25)
- [Pricing Information](#) (p. 25)

The Getting Started section provided a step-by-step experience of creating a job. Now you can learn more about the service.

Working with Import Jobs

This section describes the process of importing data into AWS. You can import data to Amazon Simple Storage Service (Amazon S3) buckets, Amazon Elastic Block Store (Amazon EBS) snapshots, and Amazon Glacier vaults. Amazon EBS snapshots can be converted into volumes for use with Amazon Elastic Compute Cloud (EC2). For more information, see [Working with Import Jobs](#) (p. 28).

Working with Export Jobs

This section describes the process of exporting data from AWS. AWS Import/Export doesn't support export jobs from Amazon EBS or Amazon Glacier. For more information, see [Working with Export Jobs](#) (p. 51).

Managing Your Jobs

AWS Import/Export tools and API provide you ways to manage your job easily. For example, after creating a job, you can update or cancel it. You can also get list of all your jobs or get status of a specific job. For more information, see [Managing Your Jobs](#) (p. 67).

Pricing Information

As with all AWS services, you pay only for the resources that you use. For more information on AWS Import/Export pricing model, go to [AWS Import/Export detail page](#).

Using IAM with AWS Import/Export Disk

Topics

- [Controlling Access to AWS Import/Export Disk Jobs](#) (p. 25)
- [Granting Access to Related AWS Resources](#) (p. 27)

AWS Identity and Access Management (IAM) is a web service that enables Amazon Web Services (AWS) customers to manage users and user permissions in AWS. AWS Import/Export Disk users must have certain permissions to access AWS Import/Export actions, such as `CreateJob` and `GetStatus`. An IAM user that creates an import or export must also have access to the AWS resources, such as the Amazon S3 buckets and Amazon Glacier vault, that will be used for the import or export operations.

Note

Only IAM users can create AWS Import/Export Disk jobs. Assumed roles can't be used to create a job.

Controlling Access to AWS Import/Export Disk Jobs

AWS Import/Export Disk integrates with AWS Identity and Access Management (IAM), which allows you to control which actions a user can perform.

By default, IAM users have no access to AWS Import/Export actions. If you want IAM users to be able to work with AWS Import/Export Disk, you must grant them permissions. You do this by creating an IAM policy that defines which Import/Export actions the IAM user is allowed to perform. You then attach the policy to the IAM user or to an IAM group that the user is in.

You can give IAM users of your AWS account access to all AWS Import/Export Disk actions or to a subset of them. The following is the full list of AWS Import/Export actions:

```
importexport:CancelJob
importexport:CreateJob
importexport:GetStatus
importexport:ListJobs
importexport:UpdateJob
importexport:GetShippingLabel
```

For information about how to create a policy and attach it to a group, user, or role, go to [Managing IAM Policies](#) in the AWS Identity and Access Management documentation.

For general information about IAM, go to:

- [AWS Identity and Access Management \(IAM\) detail page](#)
- [What Is IAM?](#) in the AWS Identity and Access Management documentation

Example IAM User Policies for AWS Import/Export Disk

This section shows three simple policies for controlling access to AWS Import/Export Disk. AWS Import/Export Disk does not support resource-level permissions, so in policies for Import/Export, the "Resource" element is always "*", which means all resources.

Allow read-only access to the jobs created under the AWS account

The following policy only allows access to the `ListJobs` and `GetStatus` actions, which are read-only actions.

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "importexport:ListJobs",
        "importexport:GetStatus"
      ],
      "Resource": "*"
    }
  ]
}
```

Allow full access to all AWS Import/Export Disk jobs created under the AWS account

The following policy allows access to all AWS Import/Export Disk actions.

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": "importexport:*",
      "Resource": "*"
    }
  ]
}
```

Deny a set of actions from an IAM user

By default, all permissions are denied; if you do not explicitly grant access to Import/Export Disk actions, users are not allowed to perform those actions. It's also possible to explicitly deny access to specific actions. This might be useful if one policy (or statement in a policy) grants access to a set of actions, but you want to exclude one or more individual actions.

The following policy contains two statements. The first statement allows access to all the AWS Import/Export Disk actions. The second statement explicitly denies access to `UpdateJob`. If new actions are added to AWS Import/Export Disk, this policy automatically grants permission for those new actions because of the first statement. However, the user will always be denied access to the `UpdateJob` action, even if that action is explicitly allowed in another policy.

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": "importexport:*"
    },
    {
      "Effect": "Deny",
      "Action": "importexport:UpdateJob",
      "Resource": "*"
    }
  ]
}
```

Granting Access to Related AWS Resources

The IAM user that creates an AWS Import/Export Disk job must have permissions to access the Amazon S3 buckets and, for import to Amazon Glacier, the Amazon Glacier vault, that will be used for the import or export operations. If the user does not have the necessary permissions, the `CreateJob` request will fail.

For all import and export jobs, the IAM user must have the following access permissions on the Amazon S3 log bucket:

```
s3:GetBucketLocation
s3:PutObject
s3:AbortMultipartUpload
s3:ListMultipartUploadParts
s3:ListBucketMultipartUploads
```

For import to Amazon S3, the IAM user must have the following access permissions on the Amazon S3 import bucket:

```
s3:GetBucketLocation
s3:PutObject
s3:AbortMultipartUpload
s3:ListMultipartUploadParts
s3:ListBucketMultipartUploads
```

If the manifest for import to Amazon S3 includes an access control list (ACL), the IAM user must have the following additional access permission on the Amazon S3 import bucket:

```
s3:PutObjectAcl
```

For more information, see [Import to Amazon S3 Manifest File Options \(p. 79\)](#).

For export from Amazon S3, the IAM user must have the following access permissions on the Amazon S3 export buckets:

```
s3:GetBucketLocation  
s3:GetObject  
s3:ListBucket
```

For import to Amazon Glacier, the IAM user must have the following access permissions on the Amazon Glacier vault:

```
glacier:AbortMultipartUpload  
glacier:CompleteMultipartUpload  
glacier:DescribeVault  
glacier:InitiateMultipartUpload  
glacier:ListMultipartUploads  
glacier:ListParts,  
glacier:UploadArchive  
glacier:UploadMultipartPart
```

The only permissions required for import to Amazon EBS are the previously listed permissions for the Amazon S3 log bucket.

For more information, go to:

- Amazon S3: [Using IAM Policies](#)
- Amazon Glacier: [Access Control Using AWS Identity and Access Management \(IAM\)](#)

Working with Import Jobs

Topics

- [Creating Amazon S3 Import Jobs \(p. 28\)](#)
- [Creating Amazon EBS Import Jobs \(p. 30\)](#)
- [Creating Amazon Glacier Import Jobs \(p. 33\)](#)
- [Creating Import Manifests \(p. 35\)](#)
- [Sending CreateJob Requests \(p. 43\)](#)
- [Viewing Import Logs \(p. 49\)](#)

This section summarizes the process you use to import data from your storage device to an Amazon S3 bucket, an Amazon Elastic Block Store (Amazon EBS) snapshot, or an Amazon Glacier vault.

The AWS Import/Export Web Service Tool discussed in [Getting Started \(p. 5\)](#) is the easiest way to create import jobs. It is a command line tool and requires no programming. However, if your application needs a programming interface, you can use the AWS SDK for Java or the REST API to create jobs.

Creating Amazon S3 Import Jobs

With an Amazon S3 import, AWS uploads individual files from your device to objects in an Amazon S3 bucket. One device is loaded to one bucket. Your device's file system is mounted on an AWS Import/Export data loading station and each file is uploaded as an object in your Amazon S3 bucket. You can optionally manage directories and filenames as part of the load process.

You must submit a separate job request for each device.

For more information, see [Guidelines and Limitations \(p. 125\)](#)

Import to Amazon S3 Process

Import Job Process

1	You create an <code>AWSCredentials.properties</code> file that contains your <code>accessKeyId</code> and <code>secretKey</code> associated with your AWS account. For more information, see Save Your Credentials to a File (p. 7) .
2	You create an import manifest file that specifies how to transfer data from your storage device to a single Amazon S3 bucket. For more information, see Creating an Import Manifest File (p. 35) .
3	<p>You initiate an import job by sending a <code>CreateJob</code> request that includes the manifest file. You send a separate <code>CreateJob</code> request for each device. Your job expires after 30 days. If you do not send a device, there is no charge. You can send a <code>CreateJob</code> request using the AWS Import/Export Tool, the AWS Command Line Interface (CLI), the AWS SDK for Java, or the AWS REST API. The easiest method is the AWS Import/Export Tool. For details, see</p> <p>Sending a CreateJob Request Using the AWS Import/Export Web Service Tool (p. 44)</p> <p>Sending a CreateJob Request Using the AWS SDK for Java (p. 45)</p> <p>Sending a CreateJob Request Using the REST API (p. 48)</p>
4	<p>AWS Import/Export sends a response that includes a job ID, a signature value, and saves a <code>SIGNATURE</code> file to your computer.</p> <p>You will need this information in subsequent steps.</p>
5	<p>Optionally, you encrypt your device or create an encrypted file container using TrueCrypt. If you use an encrypted container, name the container <code><JOBID>.tc</code>, using the Job ID from the <code>CreateJob</code> request. For example, <code>KSVDJ.tc</code>. For more information, see Encrypting Your Data (p. 61).</p>
6	<p>You copy the <code>SIGNATURE</code> file to the root directory of your storage device. You can use the file AWS sent or copy the <code>SignatureFileContents</code> values from the response into a new text file named <code>SIGNATURE</code>. The file name must be <code>SIGNATURE</code>, and the file must be in the device's root directory.</p> <p>Each device you send must include the unique <code>SIGNATURE</code> file for that device and that JOBID. AWS Import/Export validates the <code>SIGNATURE</code> file on your storage device before starting the data load. If the <code>SIGNATURE</code> file is missing invalid (for example, if it is associated with a different job request), AWS Import/Export will not perform the data load and we will return your storage device.</p> <p>Example</p> <pre>***** * SignatureFileContents * ***** version:2.0 signingMethod:HmacSHA1 jobId:QTEST signature:cbfdUuhhmauYS+ABC15R9heDK/V=</pre>

7	<p>You copy your data to your storage device. AWS Import/Export loads the data from your device to a single Amazon S3 bucket. Note that when uploading data to Amazon S3, the file path on your storage device determines the corresponding object key. For example, if your storage device has an <code>images</code> top level folder with a file <code>sample.jpg</code>, the uploaded file/object key will be <code>images/sample.jpg</code>. File names must use UTF-8 character encoding. Any file with a name that is not a valid UTF-8 string is not imported. For information on storage device requirements, see Storage Device Requirements (p. 59).</p>
8	<p>You ship the device and cables to AWS through UPS. Make sure to include your job ID on the device you are shipping and use the pre-paid shipping label, see Shipping Your Storage Device (p. 58) for information on how to print your label. Otherwise, your download might be delayed.</p> <p>Note</p> <p>You can send multiple devices in the same shipment. If you do, however, there are specific guidelines and limitations that govern what devices you can ship and how your devices must be packaged. If your shipment is not prepared and packed correctly, AWS Import/Export cannot process your jobs. Regardless of how many devices you ship at one time, you must submit a separate job request for each device. For complete details about packaging requirements when shipping multiple devices, see Shipping Multiple Devices (p. 65).</p> <p>Your job expires after 30 days. If we receive your package after your job expires, we will return your device. You will only be charged for the shipping fees, if any.</p>
9	<p>Disk validates the <code>SIGNATURE</code> file on the root drive of your storage device. If the <code>SIGNATURE</code> file doesn't match the <code>CreateJob</code> response, AWS can't load your data and we will return your device.</p> <p>Once your storage device arrives at AWS, your data load typically begins by the end of the next business day. The time line for loading your data depends on a number of factors, including decryption, the availability of an import station, the amount of data to load, and the data transfer rate of your device.</p> <p>We import all of the data into a single Amazon S3 bucket.</p>
10	<p>If you encrypted your data, AWS decrypts the data using the PIN code or password you provided in the manifest file. If we cannot decrypt the data, we erase the device and ship it to the return address you provided.</p>
11	<p>AWS imports all of the data into a single Amazon S3 bucket.</p>
12	<p>Following the import operation, AWS will erase the device, even if the import was not successful. In cases where we are unable to erase the data on the device, we will schedule it for destruction. In this case, our support teams will contact you over the email address specified in the Manifest file.</p>
13	<p>AWS repacks your storage device and ship it to the return address you provided in your manifest file. We do not ship to post office boxes.</p>

Creating Amazon EBS Import Jobs

AWS Import/Export uploads your device to Amazon Elastic Block Store (Amazon EBS) snapshots. Amazon EBS snapshots can be converted into volumes for use with Amazon Elastic Compute Cloud (Amazon EC2).

If you are using AWS Import/Export to upload data to Amazon EBS, we assume you are an Amazon Elastic Compute Cloud (Amazon EC2) user and are familiar with the Amazon EBS concepts volumes and snapshots. To learn more about Amazon EBS, go to [Amazon Elastic Block Store](#).

An Amazon EBS import creates a virtual copy of your device as a single image. The device's file system won't be automatically mounted to an Amazon EC2 instance. The maximum size of an Amazon EBS volume is 16 TB. Note that the maximum capacity of a device is independent of the amount of data stored on the device.

You must submit a separate job request for each device.

For more information, see [Guidelines and Limitations \(p. 125\)](#)

Import to Amazon EBS Process

Import to Amazon EBS Process

1	You copy your data to your storage device. Do not send the only copy of your data. AWS will erase your device. For added security, we strongly recommend using encryption. AWS does not decrypt your data.
2	You create an <code>AWSCredentials.properties</code> that contains the <code>accessKeyId</code> and <code>secretKey</code> associated with your AWS account. For more information, see Save Your Credentials to a File (p. 7) .
3	You create an import manifest file that specifies the operation, Amazon EBS, the region, and return shipping address. For more information, see Import to Amazon EBS Manifest File Options (p. 86) .
4	<p>You initiate an import job by sending a <code>CreateJob</code> request that includes the manifest file. You must submit a separate job request for each device.</p> <p>Your job expires after 30 days. If you do not send a device, there is no charge.</p> <p>You can send a <code>CreateJob</code> request using the AWS Import/Export Tool, the AWS Command Line Interface (CLI), the AWS SDK for Java, or the AWS REST API. The easiest method is the AWS Import/Export Tool. For details, see</p> <p>Sending a CreateJob Request Using the AWS Import/Export Web Service Tool (p. 44)</p> <p>Sending a CreateJob Request Using the AWS SDK for Java (p. 45)</p> <p>Sending a CreateJob Request Using the REST API (p. 48)</p>
5	<p>AWS Import/Export sends a response that includes a job ID, shipping instructions, a PDF file, and a link to generate a pre-paid shipping label.</p> <p>The PDF file contains job information, shipping instructions, and a barcode.</p> <p>You must submit a separate job request for each device, and each job request generates a unique barcode.</p> <p>AWS Import/Export validates the barcode on your storage device before starting the data load. If the barcode is invalid (for example, it doesn't match your device), it's missing, or it's illegible, AWS Import/Export will not perform the data load and we will return your storage device.</p>
6	<p>You print the PDF. For an example of the PDF, see The Import PDF File (p. 32).</p> <p>You cut out the barcode portion of the printed PDF, and tape it to your device. You must send the device using the pre-paid shipping label. See Shipping Your Storage Device (p. 58) for information on how to print your label.</p>

	<p>Important</p> <p>Attach the signature barcode securely to your device, with tape on all four sides. Do not delete, alter, or obscure the signature barcode in any way. If the signature barcode is separated from your device, we cannot validate it and we will return your device without performing the data load.</p>
7	<p>You ship the device, the cables, and the printed bar code to AWS. Otherwise, your device might be returned unprocessed.</p> <p>Note</p> <p>You can send multiple devices in the same shipment. If you do, however, there are specific guidelines and limitations that govern what devices you can ship and how your devices must be packaged. If your shipment is not prepared and packed correctly, AWS Import/Export cannot process your jobs. Regardless of how many devices you ship at one time, you must submit a separate job request for each device. For complete details about packaging requirements when shipping multiple devices, see Shipping Multiple Devices (p. 65).</p> <p>Important</p> <p>Your job expires after 30 days. If you do not send a device, there is no charge. You are billed only after AWS Import/Export receives your device. If we receive your package after your job expires, we will return your device. You will only be charged for the shipping fees, if any.</p>
8	<p>Disk uses the bar code to identify and authenticate your data load.</p> <p>Once your storage device arrives at AWS, your data load typically begins by the end of the next business day. The time line for loading your data depends on a number of factors, including the availability of an import station, the amount of data to load, and the data transfer rate of your device.</p> <p>AWS displays your Amazon EBS snapshot in the list of EBS Snapshots for your account within the AWS Management Console for Amazon EC2. For instructions to find your snapshots in the Amazon EC2 Console, see Your Amazon EBS Snapshot in the AWS Management Console (p. 33).</p>
9	<p>Following the import operation, AWS will erase the device, even if the import was not successful. In cases where we are unable to erase the data on the device, we will schedule it for destruction. In this case, our support teams will contact you over the email address specified in the Manifest file.</p>
10	<p>We repack your storage device and ship it to the return address you provided in your manifest file. We do not ship to post office boxes.</p>

The Import PDF File

The AWS response to the `CreateJob` request includes your job ID, AWS shipping address, and saves a PDF file to your computer. The PDF file contains shipping instructions with a unique bar code to identify and authenticate your device. Following is an example PDF file.

AWS Import/Export Shipping Instructions

Create Date: 12/5/14
JOBID: 796CK
Device ID: ASD321
Amazon EC2 Region: us-east-1

To prepare and send your job:

1. Cut out the barcode below and securely attach it to your storage device (external hard drive, internal SATA drive, or USB flash drive) with clear tape.
2. Pack your storage device. For external hard drives please make sure to enclose your USB or eSATA connector and powersupply.
3. Get your shipping label by using the `GetShippingLabel` API endpoint

IMPORTANT

We cannot process your job without the bar code below attached to your device.

----- CUT HERE -----

796CK



1.0:796CK:pOr72hxwzIPuzj265AK7R9qz4mc =

As noted in [Import to Amazon EBS Process \(p. 31\)](#), you must print the PDF, tape the bar code to your device, and follow the shipping instructions on the page.

Your Amazon EBS Snapshot in the AWS Management Console

You can monitor the status of your Amazon EBS import job in the AWS Management Console. Once your data begins importing to an Amazon EBS snapshot, you can find the Snapshot ID and its status in the AWS Management Console for Amazon EC2.

To find your Amazon EBS Snapshot

1. Open the Amazon EC2 console at <https://console.aws.amazon.com/ec2/>.
2. Select **Snapshots** in the left side Navigation pane.

The **EBS Snapshots** pane appears.

The screenshot shows the 'EBS Snapshots' pane in the AWS Management Console. It includes buttons for 'Create Snapshot', 'Delete', 'Permissions', and 'Create Volume'. The 'Viewing' filter is set to 'Owned By Me'. A table lists two snapshots:

	Name	Snapshot ID	Capacity	Description	Status
<input type="checkbox"/>	empty	snap-a12345z	16 GiB	YourJOBID	completed
<input type="checkbox"/>	empty	snap-ab23456	8 GiB	ABCDE	completed

The Description field includes the job ID provided by AWS Import/Export as a response to your `CreateJob` request.

Creating Amazon Glacier Import Jobs

An Amazon Glacier import job creates a virtual copy of your device as a single image. The entire image for one device is uploaded to one Amazon Glacier archive in an existing Amazon Glacier vault.

One archive holds the contents of one device. The device's file system is never mounted. You send a separate `CreateJob` request for each device.

If you want the lower cost storage provided by Amazon Glacier, but you want your individual files to be stored as separate objects, first import your files to Amazon S3, then use Amazon S3 Object Lifecycle Management to transition your files to the `GLACIER` Storage Class. When you transition objects to the `GLACIER` storage class, Amazon S3 internally uses Amazon Glacier for durable storage at lower cost. Amazon S3 objects that are associated with the `GLACIER` object class are visible and available only in Amazon S3. For more information, see [Object Lifecycle Management](#).

If you are using Disk to upload data to Amazon Glacier, we assume you are familiar with the Amazon Glacier concepts of *vaults* and *archives*. To learn more about Amazon Glacier, go to [Amazon Glacier](#).

Amazon Glacier imports complete images of the data on your device. It does not import each file individually. This functionality means that retrieving any of your data from Amazon Glacier requires restoring the complete device image, which can be expensive.

If you want to access your data on a file-by-file basis and store your data in Amazon Glacier, then consider performing an Amazon S3 import instead, and adding a lifecycle policy to your bucket to archive individual objects to Amazon Glacier. For more information on how to create lifecycle policies, see [Lifecycle Configuration for a Bucket without Versioning](#).

Note

You can only perform an Amazon Glacier import from devices of 4 TB in size or smaller.

For more information, see [Guidelines and Limitations \(p. 125\)](#)

Import to Amazon Glacier Process

Import Job Process

1	You copy your data to your storage device. Do not send the only copy of your data. AWS will erase your device. For added security, we strongly recommend using encryption. AWS does not decrypt your data.
2	You create an <code>AWSCredentials.properties</code> file that contains the <code>accessKeyId</code> and <code>secretKey</code> associated with your AWS account. For more information, see Save Your Credentials to a File (p. 7) .
3	You create an import manifest file that specifies the Amazon Glacier region and return shipping address. For more information, see Import to Amazon Glacier Manifest File Options (p. 89) .
4	<p>You initiate an import job by sending a <code>CreateJob</code> request that includes the manifest file. You must submit a separate job request for each device.</p> <p>Your job expires after 30 days. If you do not send a device, there is no charge.</p> <p>You can send a <code>CreateJob</code> request using the AWS Import/Export Tool, the AWS Command Line Interface (CLI), the AWS SDK for Java, or the AWS REST API. The easiest method is the AWS Import/Export Web Services Tool. For details, see</p> <p>Sending a CreateJob Request Using the AWS Import/Export Web Service Tool (p. 44)</p> <p>Sending a CreateJob Request Using the AWS SDK for Java (p. 45)</p> <p>Sending a CreateJob Request Using the REST API (p. 48)</p>
5	<p>AWS Import/Export sends a response that includes a job ID, shipping instructions, and a PDF file.</p> <p>The PDF file contains job information, shipping instructions, and a barcode.</p>

	<p>You must submit a separate job request for each device, and each job request generates a unique barcode.</p> <p>AWS Import/Export validates the barcode on your storage device before starting the data load. If the barcode is invalid (for example, it doesn't match your device), it's missing, or it's illegible, AWS Import/Export will not perform the data load and we will return your storage device.</p>
6	<p>You print the PDF. For an example of the PDF, see The Import PDF File (p. 32).</p> <p>You cut out the barcode portion of the printed PDF, and tape it to your device. You must send the device to the address indicated in the shipping instructions.</p> <p>Important Attach the signature barcode securely to your device, with tape on all four sides. Do not delete, alter, or obscure the signature barcode in any way. If the signature barcode is separated from your device, we cannot validate it and we will return your device without performing the data load.</p>
7	<p>Disk uses the bar code to identify and authenticate your data load.</p> <p>Once your storage device arrives at AWS, your data load typically begins by the end of the next business day. The time line for loading your data depends on a number of factors, including the availability of an import station, the amount of data to load, and the data transfer rate of your device.</p>
8	<p>Following the import operation, AWS will erase the device, even if the import was not successful. In cases where we are unable to erase the data on the device, we will schedule it for destruction. In this case, our support teams will contact you over the email address specified in the Manifest file.</p>
9	<p>We repack your storage device and ship it to the return address you provided in your manifest file. We do not ship to post office boxes.</p>

Creating Import Manifests

Topics

- [Import Manifest Examples \(p. 35\)](#)
- [Configuring Common Import Manifest Options \(p. 37\)](#)
- [Working with Amazon S3 Import Manifests \(p. 38\)](#)

You provide your job information and specify how to transfer your data between your storage device and AWS by creating a manifest file. The manifest file is a YAML-formatted text file that instructs AWS about how to handle your job. It consists of a set of name-value pairs that supply required information such as your device ID, log bucket, return address, and so on. For more information about YAML, go to <http://yaml.org>.

Import Manifest Examples

Each type of import job has a set of required options.

This sample Amazon S3 import manifest file includes only the required options.

```
manifestVersion: 2.0;
returnAddress:
  name: Jane Roe
  company: Example Corp.
```

```
street1: 123 Any Street
city: Anytown
stateOrProvince: WA
postalCode: 91011-1111
phoneNumber: 206-555-1111
country: USA
deviceId: 49382
eraseDevice: yes
notificationEmail: john.doe@example.com;jane.roe@example.com
bucket: myBucket
```

This sample Amazon EBS import manifest file includes only the required options.

```
manifestVersion: 3.0
deviceId: 49382
logBucket: myBucket
eraseDevice: yes
notificationEmail: john.doe@example.com;jane.roe@example.com
generator: AWS Import/Export Command Line Tool
returnAddress:
  name: Jane Roe
  company: Example Corp.
  street1: 123 Any Street
  city: Anytown
  stateOrProvince: WA
  postalCode: 91011-1111
  phoneNumber: 206-555-1111
  country: USA
operations:
  - destination: ebs-snapshot
    source: device
    region: us-east-1
    deviceCapacityGreaterThan1TB: yes
```

This sample Amazon Glacier import manifest file includes only the required options.

```
manifestVersion: 3.0
deviceId: 49382
logBucket: myBucket
generator: AWS Import/Export Command Line Tool
notificationEmail: john.doe@example.com;jane.roe@example.com
returnAddress:
  name: Jane Roe
  company: Example Corp.
  street1: 123 Any Street
  city: Anytown
  stateOrProvince: WA
  postalCode: 91011-1111
  phoneNumber: 206-555-1111
  country: USA
operations:
  - destination: glacier
    source: device
    region: us-east-1
    vaultName: MyGlacierVault
    archiveComment: July 24, 2012 daily archive
```


For a complete list of manifest options, see [Manifest File Options Reference \(p. 71\)](#). For examples of import manifest options, see [Configuring Common Import Manifest Options \(p. 37\)](#).

Configuring Common Import Manifest Options

These options are common to Amazon S3, Amazon EBS, and Amazon Glacier import jobs.

Topics

- [Shipping Devices Internationally \(p. 37\)](#)
- [Expediting the Return of Your Storage Device \(p. 37\)](#)
- [Specifying Device Erase After Import \(p. 37\)](#)
- [Preventing Log File Name Collisions \(p. 37\)](#)

For a complete list of manifest options, see [Manifest File Options Reference \(p. 71\)](#). For examples of import manifest options, see [Configuring Common Import Manifest Options \(p. 37\)](#).

Shipping Devices Internationally

When shipping devices internationally except within the European Union you must include the `customs` option in the manifest. For more information about the customs related manifest options, see [Customs Manifest File Option \(p. 74\)](#).

Expediting the Return of Your Storage Device

When returning your device to a U.S. address from a U.S. region bucket, you can use the `serviceLevel` manifest option to upgrade your shipping. The default `serviceLevel` option is standard shipping, which includes free ground domestic shipping. When you specify `expeditedShipping`, your device is delivered using two-day shipping for an additional fee. For information about return shipping fees and services, go to the [AWS Import/Export Calculator](#).

Specifying Device Erase After Import

After every import operation, even if the import was not successful, AWS Import/Export will erase the contents of your storage device to safeguard the data during return shipment. AWS overwrites all writable blocks on your device with zeros. You will need to repartition and format your device after we return it to you. You must include `eraseDevice: Yes` in your import manifest to acknowledge that your device will be erased. If we are unable to erase the data on the device, we will schedule it for destruction and our support team will contact you using the email address specified in the manifest file `notificationEmail` field.

```
eraseDevice: yes
notificationEmail: john.doe@example.com
```

Preventing Log File Name Collisions

The AWS Import/Export process generates a log file. The log file name always ends with the phrase `import-log-` followed by your `JobId`. There is a remote chance that you already have an object with this name. To avoid a key collision, you can add an optional prefix to the log file by adding the `logPrefix` option in the manifest. AWS Import/Export Disk takes the string value specified for this option and inserts it between the bucket name and log report name. The following manifest option sets the prefix for the log key.

```
logPrefix: logs/
```

For example, if your job ID is 53TX4, the log file is saved to `http://s3.amazonaws.com/mybucket/logs/import-log-53TX4`.

Note

We do not include a forward slash (/) automatically. If you don't include the slash at the end of the value for *logPrefix*, the value is concatenated to the log file name. For example, if your *logPrefix* is `logs` the log file key your key would become `logsimport-log-jobId` instead of `logs/import-log-JobId`.

logPrefix + `import-log-JOBID` cannot be longer than 1024 bytes. If it is, Disk returns an `InvalidManifestField` error from the `CreateJob` action.

Working with Amazon S3 Import Manifests

These options are used with Amazon S3 import jobs.

Topics

- [Handling Gzip Files \(p. 38\)](#)
- [Setting ACL on Imported Amazon S3 Objects \(p. 39\)](#)
- [Excluding Files and Directories \(p. 39\)](#)
- [Manipulating Amazon S3 Object Key Names for Disk \(p. 40\)](#)

Handling Gzip Files

When importing Gzip compressed files you can set the *setContentEncodingForGzFiles* option to `yes`. This adds the Content-Encoding header, in addition to the Content-Type header, when the Gzip compressed files are uploaded. The Content-Encoding header helps most browsers render these files correctly.

```
setContentEncodingForGzFiles: yes
```

Additionally, the extensions, `.gz` and `.gzip` are ignored when setting the Content-Type header if the file has been compressed with Gzip.

For example, if *setContentEncodingForGzFiles* is set to "yes", the compressed file compressed using Gzip `text1.html.gz`, is uploaded with the following HTTP headers:

- Content-Encoding: gzip
- Content-Type: text/html

The gzip compressed file, `text2.html`, is uploaded with the following HTTP headers:

- Content-Encoding: gzip
- Content-Type: text/html

The non-compressed file, `text3.html`, is uploaded with the following HTTP headers:

- Content-Type: text/html

Note

When *setContentEncodingForGzFiles* is set to `yes`, only files that are gzip compressed will contain a Content-Encoding header. We look at the first few bytes of all imported files to see if they are compressed using Gzip. If so, they get the Content-Encoding header regardless of the file extension.

The gzip compressed file, `text.gzip`, is uploaded with the following HTTP headers using the `defaultContentType` specified in the manifest file:

- Content-Encoding: gzip
- Content-Type: binary/octet-stream

Setting ACL on Imported Amazon S3 Objects

When importing data to Amazon S3, the permissions on the imported objects is set as private. You can specify the `acl` manifest option to specify the access control list (ACL) on the imported objects. The following manifest option sets the ACL value on the uploaded objects to public-read.

```
acl: public-read
```

Excluding Files and Directories

Topics

- [Excluding Files \(p. 39\)](#)
- [Excluding Directories \(p. 39\)](#)
- [Excluding Recycle Bin \(p. 40\)](#)
- [Excluding Lost+Found \(p. 40\)](#)

You can instruct AWS Import/Export not to import some of the directories and files on your storage device. This is a convenient feature that allows you to keep a directory structure intact, but avoid uploading unwanted files and directories. Use the `ignore` option to specify directories, files, or file types on your storage device to ignore. Use standard Java regular expressions to specify naming patterns. For information about Java regular expressions, go to <http://download.oracle.com/javase/tutorial/essential/regex/>. The following examples show Java regular expressions that are commonly used in a manifest.

Excluding Files

The following example uses the `ignore` option with two Java regular expressions to exclude files with suffix ending with a tilde and `.swp`.

```
ignore:  
- .*~$  
- .*\.swp$
```

The following `ignore` option excludes all the files on the storage device with the `.psd` extension.

```
ignore:  
- \.psd$  
- \.PSD$
```

The log report includes all ignored files, including the `SIGNATURE` file you added at the root of your storage device.

Excluding Directories

The following `ignore` option specifies that the `backup` directory at the root of your storage device will be excluded from the import.

```
ignore:
- ^backup/
```

Important

When specifying a path that includes a file separator, for example, `images/myImages/sampleImage.jpg`, make sure to use a forward slash, “/”, and not a back slash.

The following ignore option ignores all the content in the `images/myImages` directory.

```
ignore:
- ^images/myImages/
```

Excluding Recycle Bin

Many storage devices include recycle bins. You may not want to upload the recycle bin in the import process. To skip the recycle bin on Windows computers you specify the following ignore option. The regular expression in the first line applies to NTFS file systems formatted for Windows Vista and Windows 7. The regular expression in the second line applies to NTFS file systems on Windows 2000, Windows XP and Windows NT. And the regular expression in the third line applies to the FAT file system.

```
ignore:
- ^\$Recycle\.bin/
- ^RECYCLER/
- ^RECYCLED/
```

Excluding Lost+Found

The Java regular expression in the following `ignore` statement prevents the `lost+found` directory from being uploaded.

```
ignore:
- ^lost\+found/
```

Manipulating Amazon S3 Object Key Names for Disk

Topics

- [Specifying Key Prefix \(p. 40\)](#)
- [Working with Amazon S3 Substitutions \(p. 41\)](#)

The file path on your Disk storage device determines the corresponding object key when AWS imports your data to an Amazon S3 bucket. For example, if your storage device has an `images` top-level folder with a file `sample.jpg`, the uploaded file/object key will be `images/sample.jpg`.

You can use the substitutions option to change object key names when importing to Amazon S3. For example, you can add prefixes or suffixes to file names. For more information, see [Working with Amazon S3 Substitutions \(p. 41\)](#).

Specifying Key Prefix

The AWS Import/Export prefix mechanism allows you to create a logical grouping of the objects in a bucket. The *prefix* value is similar to a directory name that enables you to store similar data under the same directory in a bucket. For example, if your Amazon S3 bucket name is `my-bucket`,

and you set *prefix* to `my-prefix/`, and the file on your storage device is `/jpgs/sample.jpg`, then `sample.jpg` would be loaded to `http://s3.amazonaws.com/my-bucket/my-prefix/jpgs/sample.jpg`. If the *prefix* is not specified, `sample.jpg` would be loaded to `http://s3.amazonaws.com/my-bucket/jpgs/sample.jpg`. You can specify a prefix by adding the *prefix* option in the manifest.

Important

We do not include a forward slash (/) automatically. If you don't include the slash at the end of the value for *prefix*, the value is concatenated to the file name. For example, if your prefix is `images` and you import the file `sample.jpg`, your key would become `imagesample.jpg` instead of `images/sample.jpg`.

```
prefix: my-prefix/
```

Working with Amazon S3 Substitutions

The *substitutions* option is helpful for changing file names, appending prefixes or suffixes to file names, or other name changes during an Amazon S3 import or export job. For import jobs, use the *substitutions* option to change object key names. For export jobs, use the *substitutions* option to change names to write to your file system. For example, use the following entry to replace all the uppercase "A", "B" and "C" letters in your file names and directories with lowercase letters on the object key names before the data is uploaded to your Amazon S3 bucket.

The *substitutions* option can only be used when *manifestVersion* is set to 2.0, and is not available for Amazon EBS or Amazon Glacier import jobs.

```
substitutions:  
  "A" : "a"  
  "B" : "b"  
  "C" : "c"
```

Important

Avoid attempting to replace an entire value with an empty string. For import jobs, an empty string causes the import to fail and report a "400 InvalidSubstitution" error in the log. Also, avoid substitutions that result in multiple files mapping to the same file name. For import jobs, when multiple files map to the same file name, the behavior is undefined. For export jobs, when multiple files map to the same file name, the object falls into the recovery process. For more information about the recovery process, see [Collecting Files That Have Naming Errors \(p. 57\)](#).

The *substitutions* option is applied after any *prefix* options are applied. First, the *prefix* option determines what Amazon S3 data to copy, then, the *substitutions* option determines the value to write. For export jobs, if a *targetDirectory* option is specified, the substitutions option is applied to the *targetDirectory* value while it is writing to your device.

Example: Using Both Prefix and Substitutions Options

```
prefix: myprefix$COLON$  
substitutions:  
  "$COLON$" : ":"  
  "$QUOTE$" : "\""
```

When you use the preceding options, you can enter a fully qualified file name on your device, such as:

```
/backup/$COLON$/QUOTE$computer1$QUOTE$/c$COLON$/image.dat
```

AWS Import/Export performs the substitution and the file name becomes the following object name on Amazon S3.

```
myprefix:backup/://"computer1"/c:/image.dat
```

Example: Using Substitutions, Prefix, and targetDirectory Options

```
substitutions:
  ":" : "$COLON$"
  "," : "$COMMA$"
operations:
  - exportBucket: mybucket
    prefix: myprefix,
    targetDirectory: data,
```

When you use the preceding options, you can enter an Amazon S3 object name, such as:

```
mybucket/myprefix,/backup/://"computer1"/c:/image.dat
```

AWS Import/Export performs the substitution, and the object name becomes the following fully qualified file name on your device.

```
/data$COMMA$/myprefix$COMMA$/backup/$COLON$/computer1/c$COLON$/image.dat
```

Example: Changing Name Space Encoding

In most cases the file system name space requirements are more restrictive than the Amazon S3 name space requirements, and you might need to map between valid file system names and the Amazon S3 key name space. For an import job, you can take advantage of the more expressive name space support in Amazon S3 by encoding the file name with information that is decoded before upload. In the following example, character encoding for a colon is converted to a colon in the Amazon S3 name space:

```
substitutions:
  $COLON$ : ":"
```

For an export job, you can handle characters that don't map to the file system.

```
substitutions:
  ":" : "$COLON$"
```

Mapping Uppercase Characters to Lowercase Characters

You can define a rule to substitute all uppercase characters for file names with the equivalent lowercase characters for object names in your import job. For example, use the following entry to replace all the uppercase characters in your file names with lowercase letters for an entire alphabet. List all the letters in the alphabet (you need to specify each one) with the uppercase letters on the left side of the option parameter and lowercase letters on the right side of the option parameter (where "... represents all the characters between C and Y):

```
substitutions:  
  "A" : "a"  
  "B" : "b"  
  "C" : "c"  
  ...  
  "Y" : "y"  
  "Z" : "z"
```

For more information, see the *substitutions* option in [Common Manifest File Options \(p. 71\)](#).

Mapping File Directories to the Amazon S3 Root

Amazon S3 performs well even when there are millions of files in the same bucket. To import your data efficiently into Amazon S3 using AWS Import/Export, you might decide to eliminate your subdirectories. If you name your directories carefully, such that none of the names of the directories are substrings of your file names, you can use the *substitutions* manifest option to remove the directory from the key name. The following example assumes you have a directory structure that divides your data across the three subdirectories, *ZZ1*, *ZZ2*, *ZZ3* in your file system.

```
ZZ1/  
ZZ2/  
ZZ3/
```

To remove the directory name from the Amazon S3 key names, define the following *substitutions* option in your manifest file:

```
substitutions:  
  "ZZ1/" : ""  
  "ZZ2/" : ""  
  "ZZ3/" : ""
```

All of the files will be stored in the Amazon S3 bucket root.

Important

None of the files within the subdirectories should contain the *substitutions* strings in their file names (such as *"ZZ1/"*, *"ZZ2/"*, or *"ZZ3/"*).

If two files have the same name, both files are uploaded to Amazon S3, but you will only retain the bytes of the last file transferred.

Use the forward slash (/) as the file separator character. Don't use the back-slash (\) or double back-slash (\\).

Sending CreateJob Requests

Topics

- [Sending a CreateJob Request Using the AWS Import/Export Web Service Tool \(p. 44\)](#)
- [Sending a CreateJob Request Using the AWS SDK for Java \(p. 45\)](#)
- [Sending a CreateJob Request Using the REST API \(p. 48\)](#)

This section summarizes the tools for sending a *CreateJob* request to AWS Import/Export.

After you have created an `AWSCredentials.properties` file and a manifest file, you initiate an import job or export job by sending a *CreateJob* request that specifies the job type, Import or Export, and specifies the manifest file.

You can send a `CreateJob` request using the AWS Import/Export Web Service Tool, the AWS SDK for Java, or the AWS REST API. The easiest method is by using the AWS Import/Export Web Service Tool.

Sending a CreateJob Request Using the AWS Import/Export Web Service Tool

The easiest way to send a `CreateJob` request is by using the AWS Import/Export Tool.

To send a CreateJob request using the AWS Import/Export Web Service Tool

1. Click the following link to download the AWS Import/Export Web Service Tool:

Click <http://awsimportexport.s3.amazonaws.com/importexport-webservice-tool.zip>.

Extract the zipped content to a directory on your computer.

2. Open a command prompt (or a terminal application), and change to the directory where you unzipped the AWS Import/Export Web Service Tool.
3. Enter the `CreateJob` request on the command line, specifying either Import or Export and the manifest file name.

For an Import job, enter the following `CreateJob` request on the command line.

```
CmdPrompt>java -jar lib/AWSImportExportWebServiceTool-1.0.jar CreateJob
Import MyImportManifest.txt .
```

For an Export job, enter the following `CreateJob` request on the command line.

```
CmdPrompt>java -jar lib/AWSImportExportWebServiceTool-1.0.jar CreateJob
Export MyExportManifest.txt .
```

The `CreateJob` request includes a directory name for where you want the `SIGNATURE` file saved. In this example, the closing period (.) at the end of the command refers to the current directory. Either include the period, as shown preceding, or replace it with a directory path.

If there is an error, AWS Import/Export returns an error message.

If there are no errors in the request, AWS Import/Export returns a `JOB CREATED` response.

Note

For export, your Amazon S3 log bucket and your Amazon S3 export bucket must be in the same region. If your buckets are in different regions, your job request will fail.

For an Amazon S3 import or export job, the response includes a job ID, a signature value, and saves a `SIGNATURE` file to your computer.

For an Amazon EBS or Amazon Glacier import job, the response includes a job ID and shipping instructions. It also places a PDF file on your computer and in the Amazon S3 log bucket you identified in your manifest. The PDF file contains job information, shipping instructions, and a barcode.

The following examples show an import job response and an export job response.

Example import job response

```
JOB CREATED
JobId: ABCDE
JobType: Import
*****
* AwsShippingAddress *
*****
Please call GetShippingLabel API to retrieve shipping address
*****
* SignatureFileContents *
*****
version:2.0
signingMethod:HmacSHA1
jobId:ABCDE-VALIDATE-ONLY
signature:cbfdUuhmauYS+ABC15R9heDK/V=
Writing SignatureFileContents to cmdPrompt\.\SIGNATURE
Please use GetShippingLabel API endpoint to print your shipping label.
```

Example export job response

```
JOB CREATED

*****
* RECEIVED SUCCESSFUL RESPONSE *
*****
jobId: ETU5V
signature: f7+7Dabe30tqvZkFFjliOK5KUHg=
jobType: Export

*****
* signatureFileContents - write this to a file called *
* SIGNATURE in the root of your disk *
*****
version:2.0
signingMethod:HmacSHA1
jobId:ETU5V
signature:f7+7Dabe30tqvZkFFjliOK5KUHg=

Please use GetShippingLabel API endpoint to print your shipping label.
```

The [Getting Started \(p. 5\)](#) section provides step-by-step examples of creating import and export jobs using the AWS Import/Export Web Services Tool.

Sending a CreateJob Request Using the AWS SDK for Java

The AWS SDK for Java exposes an API to create an import job or an export job. You can then use the information in the response to send your storage device to AWS.

Create Job Process

1	Create an instance of the <code>AmazonImportExportClient</code> class by providing your AWS credentials.
2	Create an instance of the <code>CreateJobRequest</code> class by providing job information, such as the job type and the manifest.

- 3 Send the create job request by calling the `AmazonImportExportClient.createRequest` method.

The following Java code sample demonstrates creating an import job using the preceding steps.

```
AmazonImportExportClient client =
    new AmazonImportExportClient(
        new PropertiesCredentials(
            ImportCreateJobSample.class.getResourceAsStream("AWSCredentials.properties")));
String manifest = readManifestFile(manifestFilePath);
CreateJobRequest createRequest = new
    CreateJobRequest().withManifest(manifest).withJobType("Import");
CreateJobResult createResult = client.createJob(createRequest);
```

The following Java code sample demonstrates creating an export job using the preceding steps.

```
AmazonImportExportClient client =
    new AmazonImportExportClient(
        new PropertiesCredentials(
            ImportCreateJobSample.class.getResourceAsStream("AWSCredentials.properties")));
String manifest = readManifestFile(manifestFilePath);
CreateJobRequest createRequest = new
    CreateJobRequest().withManifest(manifest).withJobType("Export");
CreateJobResult createResult = client.createJob(createRequest);
```

To send a CreateJob request and print the response using Java

1. Create a properties file, `AWSCredentials.properties`, and provide the Access Key ID and Secret Key value for your IAM user. For more information, see [Using IAM with AWS Import/Export Disk \(p. 25\)](#).

Following is an example credentials file.

```
accessKey:<Your Access Key ID>
secretKey:<Your Secret Key>
```

Note

You cannot use the same `AWSCredentials.properties` file that you use with the AWS Import/Export Web Service tool. The fields are not the same.

The `AWSCredentials.properties` file must be saved in the same directory as the produced `.class` file. Thus, if your class is in a package, or if your IDE puts your `.class` files in a different location, you will have to determine the appropriate directory to save your properties file. Also, the path to your manifest file must be explicit, including the full path to the file (such as `C:\Users\UserName\MyManifest.txt`).

2. Create a manifest file describing your job.

For an example manifest, see [Create Your First Amazon S3 Import Job \(p. 9\)](#) or [Create Your First Amazon S3 Export Job \(p. 21\)](#).

3. Copy the following Java class to a file in your project.

```
import java.io.BufferedReader;
import java.io.FileReader;
```

```

import java.io.IOException;
import com.amazonaws.auth.PropertiesCredentials;
import com.amazonaws.services.importexport.AmazonImportExportClient;
import com.amazonaws.services.importexport.model.CreateJobRequest;
import com.amazonaws.services.importexport.model.CreateJobResult;

public class ImportExportCreateJobSample {
    private static String manifestFilePath = "[Provide-Explicit-Manifest-File-Path]";

    public static void main(String args[]) throws IOException {
        AmazonImportExportClient client =
            new AmazonImportExportClient(
                new PropertiesCredentials(
                    ImportExportCreateJobSample.class.getResourceAsStream("AWSCredentials.properties")));

        String manifest = readManifestFile(manifestFilePath);

        CreateJobRequest createRequest = new
            CreateJobRequest().withManifest(manifest).withJobType("[Import/Export]");

        // Call service.
        CreateJobResult createResult = client.createJob(createRequest);

        // Process result.
        System.out.println();
        System.out.println();
        System.out.println("*****");
        System.out.println("* RECEIVED SUCCESSFUL RESPONSE *");
        System.out.println("*****");
        System.out.println("jobId: " + createResult.getJobId());
        System.out.println("signature: " + createResult.getSignature());
        System.out.println("jobType: " + createResult.getJobType());
        System.out.println();

        System.out.println("*****");
        System.out.println("* signatureFileContents - write this to a file
        called *");
        System.out.println("* SIGNATURE in the root of your disk
        *");

        System.out.println("*****");
        System.out.println(createResult.getSignatureFileContents());
        System.out.println();
        System.out.println("*****");
        System.out.println("* Obtain shipping information *");
        System.out.println("*****");
        System.out.println(createResult.getAwsShippingAddress());
    }

    public static String readManifestFile(String filename) throws
        IOException {
        StringBuilder manifest = new StringBuilder();

        BufferedReader input = new BufferedReader(new
            FileReader(filename));
        try {
            String line = null;

```

```
        while ((line = input.readLine()) != null) {
            manifest.append(line);
            manifest.append(System.getProperty("line.separator"));
        }
    } finally {
        input.close();
    }
    return manifest.toString();
}
}
```

4. Update the code by providing your manifest file path and specifying Import or Export for the job type .
5. Run the code.

For an Amazon S3 import or export job, AWS Import/Export sends a response that includes a job ID, a signature value, and information on how to print your pre-paid shipping label. The response also saves a SIGNATURE file to your computer.

For an AWS EBS or Amazon Glacier import job, AWS Import/Export sends a response that includes a job ID and shipping instructions. It also places a PDF file in the Amazon S3 log bucket you identified in your manifest. The PDF file contains job information, shipping instructions, and a barcode.

Sending a CreateJob Request Using the REST API

If your application requires programmatic access to AWS Import/Export and the AWS SDK does not meet your requirements you can program directly using the REST API.

To create a job using the REST API

1. Create a manifest file describing your job.

For an example manifest, see [Create Your First Amazon S3 Import Job \(p. 9\)](#) or [Create Your First Amazon S3 Export Job \(p. 21\)](#).

2. URL encode the manifest file.
3. Sign the request.

For more information, go to [Making Query Requests \(p. 98\)](#).

4. Send a CreateJob request, specifying `JobType=Import` or `JobType=Export`.

Following is a sample CreateJob request for an import job. The request includes the URL encoded manifest file in the body of the request as the *Manifest* option value. The request also shows the other required string parameters.

```
POST / HTTP/1.1
content-type:application/x-www-form-urlencoded;charset=utf-8
host: https://importexport.amazonaws.com
content-length:579

Action=CreateJob&Manifest=manifestVersion%3A%202.0%0Abucket%3A%20myBucket%0eraseDevice%3A%20yes%0areturnAddress%3A%0A%20%20%20name%3A%20Amazon.com%20ATTN%20Joe%20Random%20%0A%20%20%20street1%3A%201200%2012th%20Ave%20S.%0A%20%20%20%20city%3A%20Seattle%0A%20%20%20%20stateOrProvince%3A%20WA%0A%20%20%20%20postalCode%3A%2098114%0A%20%20%20%20phoneNumber%3A%20206-266-0000%0A%20%20%20%20country%3A
```

```
%20USAJobType=ImportSignatureVersion=2&SignatureMethod=HmacSHA256&Version=2010-06-01&Signature=2FVfkl1tRBOoSUI1sWxRzN8rw%3D
```

For an Amazon S3 import or export job, AWS Import/Export sends a response that includes a job ID, a signature value, and information on how to print your pre-paid shipping label.

For an AWS EBS or Amazon Glacier import job, AWS Import/Export sends a response that includes a job ID and shipping instructions. It also places a PDF file in the Amazon S3 log bucket you identified in your manifest. The PDF file contains job information, shipping instructions, and a barcode.

For more information about creating a job using the REST API, go to [CreateJob \(p. 104\)](#). You can validate the manifest and parameter values without creating a job by setting the `ValidateOnly` parameter to `true`.

Viewing Import Logs

After successfully transferring data between AWS and your portable storage device, AWS Import/Export generates a log and saves it to Amazon S3 as an object.

Topics

- [Log Files \(p. 49\)](#)
- [Amazon S3 and Amazon EBS Log File Fields \(p. 50\)](#)
- [Amazon Glacier Log File \(p. 51\)](#)
- [Status Codes \(p. 51\)](#)

Log Files

The log file is a UTF-8 encoded CSV file that contains, among other things, information about each file loaded to or from your storage device.

With Amazon S3 import jobs, AWS Import/Export saves the log to the same Amazon S3 bucket as your data.

With Amazon EBS and Amazon Glacier jobs, AWS Import/Export saves the log to the bucket you specified in the `logBucket` option in your manifest file.

For an import job, the log name ends with the phrase `import-log-` followed by your `JOBID`. For an export job, the log name ends with the phrase `export-log-` followed by your `JOBID`. For example, if the import `JOBID` is `53TX4`, the log name ends in `import-log-53TX4`. By default, if you do not set `logPrefix` in the manifest file, a job loaded to `mybucket` with the `JOBID` of `53TX4` loads the logs to `http://mybucket.s3.amazonaws.com/import-log-53TX4`. If you set `logPrefix` to `logs/`, the log location is `http://s3.amazonaws.com/mybucket/logs/import-log-53TX4`.

For an export job, the log name ends with the phrase `export-log-` followed by your `JOBID`. For example, if the `JOBID` is `53TX4`, the log file name would end in `http://s3.amazonaws.com/mybucket/logs/export-log-53TX4`.

Note

If you have a log object with the same key name as an existing Amazon S3 object, the new log overwrites the existing object. You can use the `logPrefix` option to prevent object collisions.

Viewing the log files

You can download your log using the AWS Management Console. For more information, go to <http://aws.amazon.com/console/>.

Amazon S3 and Amazon EBS Log File Fields

The following table describes the fields in an Amazon S3 or Amazon EBS log file.

Field	Description
DateTime	The date and time when we processed a file, for example, Wed Nov 12 11:07:34 PST 2008.
File	The name of the file in the root directory of your storage device, for example, /images/image.jpg.
Status	Specifies either an Disk status or one of the standard Amazon S3 REST web server HTTP status codes, for example, 200. For more information, see Error and Status Codes (p. 122) .
Code	Specifies either an Disk code, such as Ignored when the Status is 103, or the standard Amazon S3 REST error codes, for example, OK.
Key	Specifies where Disk loads the file in Amazon S3. The key includes the bucket name and any prefix settings set in the manifest file, for example, /mybucket/myprefix/images/image.jpg.
MD5	<p>The checksum of the object stored in Amazon S3 identified by Key, for example, d2a22fcab097sample32c544.</p> <p>Note Objects imported into Amazon S3 use the public Amazon S3 API actions. Smaller objects are uploaded by Import/Export using PUT Object, and larger objects are uploaded using Multipart Upload. Objects created by PUT Object have ETags that are an MD5 digest of their object data. However, objects created by Multipart Upload have ETags that are not MD5 digests. Therefore, ETags from S3 might not match your local MD5 sums.</p> <p>With AWS Import/Export Disk import jobs, we compute the MD5 sum before uploading each part, and provide it as input to UploadPart. The MD5 sum of the entire file is then written to one of our internal logs. Once the upload is complete, all data on the disk is automatically re-read to calculate MD5 sums to compare against the MD5 sums of the imported objects. If, for any reason, the software reads an MD5 sum that doesn't match, the entire workflow will the section called "Failed Jobs" (p. 70).</p> <p>For more information on how ETags and MD5 sums are computed in Amazon S3, see Common Response Headers in the <i>Amazon Simple Storage Service API Reference</i>.</p>
Bytes	The number of bytes stored in Amazon S3 for the object identified by Key, for example, 57344.
Content-Type	The value of the Content-Type header stored in Amazon S3, for example, image/jpeg.
ETag	The ETag value of the object in Amazon S3.

Sample Amazon S3 Log File

The following shows a sample Amazon S3 import log file.

DateTime	File	Status	Code	Key	MD5	Bytes	Content-Type
Tue 03 Feb 2009 21:57:43 GMT	SIGNATURE	103	Ignore			90	application/octet-stream
Tue 03 Feb 2009 21:57:43 GMT	Notice.txt	200	OK	MyBucket/images/Notice.txt	f60fe317bc497b1203b327490959eb64	1024	text/plain
Tue 03 Feb 2009 21:57:43 GMT	README.txt	200	OK	MyBucket/images/README.txt	d5a46fa22596d24644effbaf1900e	1024	text/plain
Tue 03 Feb 2009 21:57:43 GMT	images/wookie1.jpg	200	OK	MyBucket/images/images-wookie1.jpg	ccac0d031603ff1c299770bae845e9	299770	image/jpeg
Tue 03 Feb 2009 21:57:43 GMT	images/chewie.GIF	200	OK	MyBucket/images/images-chewie.GIF	5fc22dc594e0c592970b9565ba970	2970	image/gif
Tue 03 Feb 2009 21:57:43 GMT	images/resources/chewie.psd	200	OK	MyBucket/images/images-resources-chewie.psd	130b64d171e9bbc2041171189796c	204117	application/octet-stream
Tue 03 Feb 2009 21:57:43 GMT	images/chewie.TIF	200	OK	MyBucket/images/images-chewie.TIF	823d17b05321b9645874e5bdgedaff	45874	image/tiff

Amazon Glacier Log File

The Amazon Glacier log file is uploaded to the logBucket specified in the manifest once the import completes.

An Amazon Glacier log file is a two-line text file in the following format:

```
DATE, VAULT, ARCHIVE ID, SIZE, TREE HASH, ARCHIVE COMMENT
<Date>, <Vault Name>, /<AWS Account ID>/vaults/<Vault Name>/archives/<Archive ID>, <Archive Comment>
```

Status Codes

For information about Amazon log file status codes, see [Error and Status Codes \(p. 122\)](#).

Working with Export Jobs

Topics

- [Creating Amazon S3 Export Jobs \(p. 52\)](#)
- [Creating Export Manifests \(p. 54\)](#)
- [Viewing Import/Export Logs \(p. 58\)](#)

This section summarizes the process you use to export data from an Amazon S3 bucket to your storage device.

Note

AWS Import/Export doesn't support export jobs from Amazon Elastic Block Store or Amazon Glacier.

Creating Amazon S3 Export Jobs

An Amazon S3 export transfers individual objects from Amazon S3 buckets to your device, creating one file for each object. You can export from more than one bucket and you can specify which files to export using manifest file options.

Note

You cannot export Amazon S3 objects that have been transitioned to Amazon Glacier Storage Class using Amazon S3 Object Lifecycle Management. Before sending an Amazon S3 export job, check your lifecycle configuration rules to ensure that your objects will be available in Amazon S3 standard class until the export is complete. For more information, see [Object Lifecycle Management](#) in the *Amazon S3 Developer Guide*.

You must submit a separate job request for each device.

For more information, see [Guidelines and Limitations \(p. 125\)](#)

Amazon S3 Export Process

Export Job Process

1	You create an export manifest file that specifies how to load data onto your device, including an encryption PIN code or password and details such as the name of the bucket that contains the data to export. For more information, see The Export Manifest File (p. 54) . If you are going to mail us multiple storage devices, you must create a manifest file for each storage device.
2	<p>You initiate an export job by sending a <code>CreateJob</code> request that includes the manifest file. You must submit a separate job request for each device. Your job expires after 30 days. If you do not send a device, there is no charge.</p> <p>You can send a <code>CreateJob</code> request using the AWS Import/Export Tool, the AWS Command Line Interface (CLI), the AWS SDK for Java, or the AWS REST API. The easiest method is the AWS Import/Export Tool. For details, see</p> <p>Sending a CreateJob Request Using the AWS Import/Export Web Service Tool (p. 44)</p> <p>Sending a CreateJob Request Using the AWS SDK for Java (p. 45)</p> <p>Sending a CreateJob Request Using the REST API (p. 48)</p>
3	<p>AWS Import/Export sends a response that includes a job ID, a signature value, and information on how to print your pre-paid shipping label. The response also saves a <code>SIGNATURE</code> file to your computer.</p> <p>You will need this information in subsequent steps.</p>

4	<p>You copy the <code>SIGNATURE</code> file to the root directory of your storage device. You can use the file AWS sent or copy the <code>SignatureFileContents</code> values from the response into a new text file named <code>SIGNATURE</code>. The file name must be <code>SIGNATURE</code>, and the file must be in the device's root directory.</p> <p>Each device you send must include the unique <code>SIGNATURE</code> file for that device and that <code>JOBID</code>. AWS Import/Export validates the <code>SIGNATURE</code> file on your storage device before starting the data load. If the <code>SIGNATURE</code> file is missing invalid (if, for instance, it is associated with a different job request), AWS Import/Export will not perform the data load and we will return your storage device.</p> <p>Example</p> <pre style="border: 1px solid black; padding: 10px;"> ***** * SignatureFileContents * ***** version:2.0 signingMethod:HmacSHA1 jobId:QTEST signature:cbfdUuhhmauYS+ABC15R9heDK/V= </pre>
5	<p>Generate, print, and attach the pre-paid shipping label to the exterior of your package. See Shipping Your Storage Device (p. 58) for information on how to get your pre-paid shipping label.</p>
6	<p>You ship the device and cables to AWS through UPS. Make sure to include your job ID on the shipping label and on the device you are shipping. Otherwise, your job might be delayed. Your job expires after 30 days. If we receive your package after your job expires, we will return your device. You will only be charged for the shipping fees, if any.</p> <p>You must submit a separate job request for each device.</p> <p>Note You can send multiple devices in the same shipment. If you do, however, there are specific guidelines and limitations that govern what devices you can ship and how your devices must be packaged. If your shipment is not prepared and packed correctly, AWS Import/Export cannot process your jobs. Regardless of how many devices you ship at one time, you must submit a separate job request for each device. For complete details about packaging requirements when shipping multiple devices, see Shipping Multiple Devices (p. 65).</p>
7	<p>Disk validates the signature on the root drive of your storage device. If the signature doesn't match the signature from the <code>CreateJob</code> response, Disk can't load your data.</p> <p>Once your storage device arrives at AWS, your data transfer typically begins by the end of the next business day. The time line for exporting your data depends on a number of factors, including the availability of an export station, the amount of data to export, and the data transfer rate of your device.</p>
8	<p>AWS reformats your device and encrypts your data using the PIN code or password you provided in your manifest.</p>
9	<p>We repack your storage device and ship it to the return shipping address listed in your manifest file. We do not ship to post office boxes.</p>

10 You use your PIN code or TrueCrypt password to decrypt your device. For more information, see [Encrypting Your Data \(p. 61\)](#)

Creating Export Manifests

You provide your job information and specify how to transfer your data between your storage device and AWS by creating a manifest file. The manifest file is a YAML-formatted text file. It consists of a set of name-value pairs that supply required information such as your device ID, log bucket, return address, and so on. For more information about YAML, go to <http://yaml.org>.

Import and export manifest files use a common set of options and also options that are unique to each type.

A set of customs manifest file options is required for any storage device shipped internationally.

For a complete list of manifest options, go to [Manifest File Options Reference \(p. 71\)](#).

Export Manifest Example

An S3 export job has a set of required options.

This sample Amazon S3 export manifest file includes only the required options.

```
manifestVersion:2.0
generator:text editor
deviceId:ABCDE
pinCode:4321
trueCryptPassword:SimpleButEasilyCrackedEXAMPLE
fileSystem:NTFS
serviceLevel:expeditedShipping
targetDirectory:/
recoveryDirectory:EXPORT-RECOVERY
logBucket:ImportExportBucket
notificationEmail:jane.roe@example.net
operations:
  - exportBucket: ImportExportBucket
returnAddress:
  name: Jane Roe
  company: Example Corp.
  street1: 123 Any Street
  city: Anytown
  stateOrProvince: WA
  postalCode: 91011-1111
  phoneNumber: 206-555-1111
  country: USA
```

For a complete list of manifest options, see [Manifest File Options Reference \(p. 71\)](#). For examples of commonly used manifest options, see [Working with Amazon S3 Export Manifests \(p. 54\)](#).

Working with Amazon S3 Export Manifests

Topics

- [Shipping Internationally \(p. 55\)](#)
- [Expediting the Return of Your Storage Device \(p. 55\)](#)
- [Preventing Log File Name Collisions \(p. 55\)](#)

This section gives examples of using export manifest options.

Shipping Internationally

When shipping devices internationally except within the European Union you must include the customs option in the manifest. For more information about the customs related manifest options, see [Customs Manifest File Option](#) (p. 74).

Expediting the Return of Your Storage Device

When returning your device to a U.S. address from a U.S. region bucket, you can use the *serviceLevel* manifest option to upgrade your shipping. The default *serviceLevel* option is standard shipping, which includes free ground domestic shipping. When you specify *expeditedShipping*, your device is delivered using two-day shipping for an additional fee. For information about return shipping fees and services, go to the [AWS Import/Export Calculator](#).

Preventing Log File Name Collisions

The *logPrefix* option defines a string AWS Import/Export Disk inserts between the bucket name and log report name to prevent name collisions. The log file name always ends with the phrase `export-log-` followed by your *JobId*.

Example path and file name without *logPrefix*:

```
http://mybucket.s3.amazonaws.com/export-log-53TX4.
```

Example path and file name with *logPrefix* set to `logs/`:

```
http://mybucket.s3.amazonaws.com/logs/export-log-53TX4
```

Note

We do not include a slash (/) automatically. If you don't include the slash at the end of the value for *logPrefix*, the value is concatenated to the log file name. For example, if your *logPrefix* is `taxonomy` and your root directory contains the file `phylum.jpg`, your key would become `taxonomyphylum.jpg` instead of `taxonomy/phylum.jpg`.

logPrefix + `export-log-JOBID` cannot be longer than 1024 bytes. If it is, Disk returns an *InvalidManifestField* error from the *CreateJob* action.

Managing File Exports

Topics

- [Operations Export Manifest Option](#) (p. 55)
- [Limiting the Exported Data](#) (p. 56)
- [Exporting Data From Multiple Buckets](#) (p. 56)
- [Specifying the Target Directory](#) (p. 57)

You may need to limit which files are exported from a bucket. For instance, you might not want all of the files in a bucket, or you may have too many files for a single device and need to export to multiple devices.

This section describes how to configure the *operations* manifest file option to manage those tasks.

If you need to export files from multiple buckets, you can specify multiple *exportBucket* options in the same manifest file.

Operations Export Manifest Option

The *operations* manifest option specifies a list of one or more export operations. AWS Import/Export Disk exports keys in alphabetical order. That is, it carries out the operations in the order listed and then

in the alphabetical order of the keys affected by each export operation. The files on the storage device remain in strict alphabetical order even if the data to export exceeds the capacity of the storage device; Disk does not, for example, squeeze in an extra file or two that are out of order just because there is room on the storage device. This alphabetical order enables you to continue the export easily: create a new export job using the key of the last file exported as the *beginMarker* in your new export job.

The *operations* subfields *prefix*, *beginMarker*, and *endMarker* limit the data exported from a bucket.

<i>prefix</i>	Restricts the keys exported to those located in the path specified by <i>prefix</i> .
<i>beginMarker</i>	Limits the keys exported to those that occur alphabetically <i>after</i> this option value.
<i>endMarker</i>	A subfield of <i>operations</i> that limits the keys exported to those that occur alphabetically <i>before and including</i> the key that matches <i>endMarker</i> . Any keys that are prefixed by <i>endMarker</i> are not included.

AWS Import/Export Disk uses the entire key when naming the objects exported to your storage device. For example, AWS Import/Export Disk would map the key `starwars.s3.amazonaws.com/images/jedi.jpg` to the following file on your storage device `/starwars/images/jedi.jpg`. For Microsoft Windows, AWS Import/Export Disk would map the same key to `\starwars\images\jedi.jpg`.

The following sections talk in depth about some of the export fields you use with *operations*.

Limiting the Exported Data

Use *beginMarker* and *endMarker* to specify the beginning and the ending of the keys to export.

The export job starts with the key after the *beginMarker*. In other words, the *beginMarker* is not included in the export job, although the *endMarker* is included. For example, the following options export all of the keys that occur alphabetically between `html/index.html` and `images/kate.jpg`.

The export will not include `html/index.html`, will include `images/kate.jpg`, and will not include `images/kate.png`.

```
operations:
- exportBucket: mybucket
  beginMarker: html/index.html
  endMarker: images/kate.jpg
```

Note

It's possible to construct an export operation that includes no keys. For example, if you specify `image` for *prefix* and `foo` for *endMarker*, there would be no matching keys because `foo` comes alphabetically before `image`.

Exporting Data From Multiple Buckets

To export multiple subsets of data from one or more buckets, specify multiple *exportBucket* operations followed by appropriate export options. Each dash (-) after *operations* specifies a new set of data to export. Each entry requires an *exportBucket* manifest option. The following example shows four data sets to export from three different buckets: `mybucket`, `lost`, and `threescompany`.

All buckets must be in the same Amazon S3 region and you must have read permissions on each bucket and each object.

To export data from more than one bucket

Use *exportBucket* to specify each bucket you want to export data from.

In the following example, AWS Import/Export exports all keys under `/images` in `mybucket` to `starwars/image-backup` on the storage device.

```
operations:
  - exportBucket: mybucket
    prefix: images
    beginMarker: images/starwars/jedi.jpg
    endMarker: images/starwars/masterwindoo.jpg
  - exportBucket: lost
  - exportBucket: threescompany
    prefix: images
    endMarker: images/characters/mrfurley.jpg
```

The order in which AWS Import/Export exports keys is the order of the operations you specify in the `operations` manifest option, and then within each operation, by the alphabetical order of the keys to be exported. In the previous procedure, for example, AWS Import/Export exports all of the keys from `mybucket` in alphabetical order, and then from `lost` in alphabetical order.

Note

AWS Import/Export exports keys in parallel, but the finished order of files on the storage device is by operation and then alphabetical. This functionality becomes important when the storage device has insufficient capacity to hold all of the data that needs to be exported. This ordering enables you to easily continue the export with a new export job using the key of the last key exported as your `beginMarker` in your new export job.

Specifying the Target Directory

AWS Import/Export gives you the ability to specify the location for the exported files on your storage device using the export manifest options `operations` and `targetDirectory`.

To export data to a specific directory

Use the `targetDirectory` to specify the directory on the storage device you want to export files into.

In the following example, AWS Import/Export exports the contents of the bucket named `bucket-data-comes-from` to the directory, `myexport/stuff`, on the storage device.

The default `targetDirectory` is the bucket name.

```
operations:
  - exportBucket: bucket-data-comes-from
    targetDirectory: myexport/stuff
```

Collecting Files That Have Naming Errors

Amazon S3 object keys might contain characters that are incompatible with the file system you specified in your manifest. When AWS Import/Export exports files to your device, we attempt to remove illegal characters and map the Amazon S3 keys as closely as possible to a file name that is permitted by the file system. If a file name cannot be mapped, the file is copied to a directory named `EXPORT-RECOVERY`. You can optionally specify a different directory name by specifying the `recoveryDirectory` option in your export manifest.

Files are written to the recovery directory beginning in a subdirectory named `0000`. The files are named sequentially from `0000` to `9999`, then a new subdirectory named `0001` is created, and so on. This process continues until one of the following conditions occurs:

- All files are stored
- The file system is full

- 100 million files are written to the *recoveryDirectory* directory
- The *recoveryDirectory* directory exceeds the file system's maximum file size limit

For example, if your recovery directory is named EXPORT-RECOVERY, your hierarchy of files and directories will look similar to this:

```
EXPORT-RECOVERY /
  0000 /
    0000
    0001
    ...
    9999
  0001 /
    ...
    9999 /
```

Viewing Import/Export Logs

After transferring data between AWS and your portable storage device, AWS Import/Export generates a log file. The log file is a CSV file that contains, among other things, information about each file loaded to or from your storage device. With export jobs, AWS Import/Export saves the log files to the bucket you specify with the *logBucket* manifest option.

Note

For export, your Amazon S3 log bucket and your Amazon S3 export bucket must be in the same region. If your buckets are in different regions, your job request will fail.

The log file name of an export job always ends with the phrase `export-log-` followed by your *JOBID*. For example, if the *JOBID* is `53TX4`, the log file name would end in `export-log-53TX4`.

Note

If you have a log file name with the same name as an existing Amazon S3 object, the new log file overwrites the existing object. You can use the *logPrefix* field to prevent object collisions. For more information about the *logPrefix*, see [Preventing Log File Name Collisions \(p. 55\)](#).

Sample Log File

AWS Import/Export uses the same set of fields in an import or an export log. For more information about log files and descriptions of log file fields, see [Amazon S3 and Amazon EBS Log File Fields \(p. 50\)](#).

Shipping Your Storage Device

Topics

- [Storage Device Requirements \(p. 59\)](#)
- [Preparing Your Storage Device for Amazon S3 Import and Export Jobs \(p. 59\)](#)
- [Preparing Your Storage Device for Amazon EBS and Amazon Glacier Import Jobs \(p. 60\)](#)
- [Encrypting Your Data \(p. 61\)](#)
- [Packing Your Storage Device \(p. 63\)](#)
- [Generating Your Pre-Paid Shipping Label \(p. 63\)](#)
- [Shipping Multiple Devices \(p. 65\)](#)
- [Mailing Your Storage Device \(p. 66\)](#)

The following sections explain how to prepare and ship your storage device to AWS.

You must use UPS as your carrier to send packages to AWS, and you must use the pre-paid shipping label generated by the AWS Import/Export Web Service Tool. AWS returns packages using UPS or DHL.

Your device will be delivered to an AWS sorting facility and then forwarded by Amazon to the AWS data center. UPS will only have tracking information to the sorting facility. AWS updates the job status when the package is received by the AWS data center. When you send a `GetStatus` command, the status of your job will not show `At AWS` until the shipment has been received at the AWS data center.

Important

Any packages that arrive at an AWS sorting facility without the pre-paid shipping label attached will be returned without AWS performing the job request, and you will be charged for any applicable return shipping charges and device-handling fees. If you cannot use the pre-paid shipping label, contact [AWS Support Center](#) before shipping your device.

Storage Device Requirements

To connect your storage device to one of our AWS Import/Export stations, your device must meet the following requirements:

- Compatible with Red Hat Linux and warranted by the manufacturer to support eSATA, USB 3.0, or USB 2.0 interface on Linux.
- Maximum device size is 14 inches/35 centimeters high by 19 inches/48 centimeters wide by 36 inches/91 centimeters deep (8Us in a standard 19 inch/48 centimeter rack).
- Maximum weight is 50 pounds/22.5 kilograms.
- Maximum device capacity is 16 TB for Amazon Simple Storage Service (Amazon S3) and Amazon EBS jobs.
- Maximum device capacity is 4 TB for Amazon Glacier jobs.
- Power requirements vary by region. For more information, go to the Selecting Your Storage Device section on the [AWS Import/Export Product Details](#) page.

Important

If you're not using internal drives, you must ship your storage device with its power supply, power cable, and interface cables. Without these components, we can't transfer your data and we will return your device. Enclosures, power supply, power cable, and interface cables are not necessary for internal drives.

Preparing Your Storage Device for Amazon S3 Import and Export Jobs

The process for preparing your storage device is as follows. Individual steps are described in detail in the following topics.

1	Ensure that your storage device conforms to AWS requirements. For more information, see Storage Device Requirements (p. 59) .
2	For import to Amazon S3, you can encrypt your data before you send the device. For export to Amazon S3, you provide a PIN code or password that we will use to encrypt your data. For more information, see Encrypting Your Data (p. 61) .
3	Label both your device and package with the <code>JobId</code> value from the <code>CreateJob</code> response.
4	Copy the <code>SIGNATURE</code> value to a file named <code>SIGNATURE</code> in the root directory of your storage device.

5	Generate, print, and attach the pre-paid shipping label to the exterior of your package. See Shipping Your Storage Device (p. 58) for information on how to get your pre-paid shipping label.
6	Pack your <i>power supply</i> , <i>power cable</i> , and <i>interface cables</i> along with your device. Important Secure your device within the shipping box to prevent shifting in transit. For example, wrapping your device in bubble wrap will help prevent shifting and give added protection from damage.

Copying the Signature Value

For Amazon S3 import or export jobs, your storage device must have on its root directory a file named `SIGNATURE`. The `CreateJob` response includes the `SignatureFileContents` text and a file named `SIGNATURE` in its response. The file name must be `SIGNATURE`, all caps, and it must be in the device's root directory.

To copy the signature value to your storage device

1. Locate the `SIGNATURE` on your computer, or create a file named `SIGNATURE` and copy the `SignatureFileContents` text into it.

You can also get the `SignatureFileContents` value by submitting a `GetStatus` request.

The file name, `SIGNATURE`, must be all caps.

2. Copy the `SIGNATURE` file to your storage device in the root directory.

Each device you send must include the unique `SIGNATURE` file for that device and that `JOBID`. AWS Import/Export validates the `SIGNATURE` file on your storage device before starting the data load. If the `SIGNATURE` file is missing or invalid (if, for instance, it is associated with a different job request), AWS Import/Export will not perform the data load and we will return your storage device.

Preparing Your Storage Device for Amazon EBS and Amazon Glacier Import Jobs

The process for preparing your storage device is as follows. Individual steps are described in detail in the following topics.

1	Ensure that your storage device conforms to AWS requirements. For more information, see Storage Device Requirements (p. 59) .
2	Print the PDF file from the <code>CreateJob</code> response and tape the bar code portion to your device. Be especially careful to attach the right barcode to the right device. You submit a separate job request for each device, and each job request generates a unique barcode. Important Attach the signature barcode securely to your device, with tape on all four sides. Do not delete, alter, or obscure the signature barcode in any way. AWS Import/Export uses the signature barcode to validate your storage device before starting the data load. If the signature barcode is separated from your device, we cannot validate it and we will return your device without performing the data load.
3	Generate, print, and attach the pre-paid shipping label to the exterior of your package. See Shipping Your Storage Device (p. 58) for information on how to get your pre-paid shipping label.

4 Pack your *power supply*, *power cable*, and *interface cables* along with your device.

Important

Secure your device within the shipping box to prevent shifting in transit. For example, wrapping your device in bubble wrap will help prevent shifting and give added protection from damage.

Encrypting Your Data

For added security, AWS Import/Export supports the following data encryption methods:

PIN-code encryption

Hardware-based device encryption that uses a physical PIN pad for access to the data.

TrueCrypt software encryption

Disk encryption using TrueCrypt, which is an open-source encryption application.

For export from Amazon S3, AWS always requires data encryption, either by using a PIN-code device with hardware-based encryption or by using TrueCrypt software encryption. For added security, you can use both methods. You will need to provide the PIN or password, or both, in your manifest file.

For import jobs, we strongly recommend encrypting your data. For import to Amazon S3, you can use a PIN-code device with hardware-based encryption or TrueCrypt software to encrypt your data before sending it to AWS Import/Export. You will need to include your PIN code or TrueCrypt password in your import manifest and the TrueCrypt password in your export manifest.

For import to Amazon EBS or Amazon Glacier, you can use a PIN-code device with hardware-based encryption or any software encryption method you choose, or both. AWS uses your PIN to access a PIN-code device, but does not decrypt software-encrypted data for import to Amazon EBS or Amazon Glacier. You will need to include your PIN in your import manifest.

Using PIN-Code Device Encryption

You can supply a storage device that uses hardware-based device encryption with a physical PIN pad for all import or export jobs. If you do so, you must provide the PIN code in your manifest.

Using TrueCrypt Encryption for Import to Amazon S3

TrueCrypt is an open-source disk encryption application. TrueCrypt is the only device encryption software supported by AWS Import/Export. AWS also supports hardware-based encryption. For more information, see [Encrypting Your Data \(p. 61\)](#).

If you have not installed TrueCrypt 7.1a, you will need to install it first.

Note

The developer no longer supports TrueCrypt 7.1a. However, you can still download TrueCrypt 7.1a and use the application without charge to decrypt your device.

To ensure that we can decrypt your device, choose the following options when creating a TrueCrypt volume:

- Create a new TrueCrypt volume. AWS Import/Export supports only TrueCrypt volumes created as non-system partitions or encrypted file containers.

Do not use the **Encrypt the system partition or the entire system drive** option.

- Select either the **Create an encrypted file container** option or the **Encrypt a non-system partition/drive** option.

- For **Volume Type**, select **Standard TrueCrypt volume**. Do not create a hidden volume.
- If you are creating an encrypted file container, for **Volume Location**, create a file in your device's home directory and name the file `<JOBID>.tc`, where `<JOBID>` is the job ID associated with the device. For example, `1B23C.tc`.
- If you are encrypting a non-system partition, for **Volume Location**, select the partition to be encrypted. For **Volume Creation Mode**, if your volume already contains files, select **Encrypt partition in place**. TrueCrypt will not format the partition or erase any files. Encrypt partition in place takes longer than encrypting an empty volume. If the partition is empty, select **Create encrypted volume and format it**.
- For **Encryption Options**, use **AES** for the **Encryption Algorithm** and **RIPEMD-160** for the **Hash Algorithm**.
- Create a password for your TrueCrypt volume. You will include this password in the job manifest that you create with the AWS Import/Export tool. Without this password, we won't be able to access any data on the encrypted partition. Keep the following in mind when creating your password:
 - Don't include commas in your password.
 - Don't lose your password, or you will not be able to decrypt your device. AWS Import/Export will not send the password with the encrypted device.
- If you are prompted to select a volume format, select **NTFS**.

After you create your TrueCrypt volume, use TrueCrypt to mount the volume and then copy your files into the volume. Your device must contain only one partition or container and no other files. If you use a file container, the container must be named `<JOBID>.tc`, using the job ID associated with the device. Copy the SIGNATURE file to the root directory of the encrypted volume.

When you complete your manifest file in preparation for submitting a job request, include the password for the `trueCryptPassword` option. When AWS receives your device, we will attempt to mount the device. If the volume is encrypted, we decrypt it using the password you supplied. If the volume is not encrypted, we will look for a container file named `<JOBID>.tc`, using the job ID associated with the device. We will decrypt the container using the password you supplied.

Following a successful import, we will erase the device and ship it to the address provided on your manifest.

If any of the following conditions occur, AWS will erase your device without performing the import and ship it to the address provided on your manifest:

- You specified a TrueCrypt password in your manifest, but the partition is not encrypted or no encrypted container named `<JOBID>.tc` exists on the device.
- More than one container exists on the device.
- More than one partition exists on the device.
- AWS is not able to decrypt the partition or the container.

If we are unable to erase the data on the device, we will schedule it for destruction and our support team will contact you using the email address specified in the manifest file.

Using TrueCrypt Encryption with Export from Amazon S3

When you create an Export to Amazon S3 job, you specify a PIN code or a TrueCrypt password in the export manifest. If you supply a TrueCrypt password, AWS creates a TrueCrypt encrypted volume in a file container on your device using the password you provided, and then copies the data to the container. The container is named `JOBID.tc`, using the job ID associated with your device.

Important

Do not lose your password, or you will not be able to decrypt your device. AWS Import/Export will not send the password with the encrypted device.

Decrypting the TrueCrypt Container

When you receive your device, you will use TrueCrypt with the password you provided with your export manifest to decrypt the container and mount the volume.

To decrypt the TrueCrypt container

1. If you have not installed TrueCrypt 7.1a, you will need to install it first.

Note

The developer no longer supports TrueCrypt 7.1a. However, you can still download TrueCrypt 7.1a and use the application without charge to decrypt your device.

2. Open TrueCrypt.
3. Click **Volume**, **Select File**.
4. Click the name of the TrueCrypt container file located on your device, and click **Open**.
5. Click **Volume**, **Mount Volume**.
6. Type the password from the export manifest in to the **Password** box and click **OK**.

The encrypted container is mounted as a volume on your computer.

Packing Your Storage Device

This section describes how to pack your media.

To pack your storage device

1. Make sure that you package your equipment appropriately. UPS can provide packing guidelines.

Important

Although AWS has a number of internal controls and procedures to prevent loss, damage or disclosure of your data, AWS is not responsible for damages associated with loss or inadvertent disclosure of data; or the loss, damage, or destruction of the physical hardware. You should always retain a back-up copy of your data. For information about failed jobs, see [Failed Jobs \(p. 70\)](#).

2. Enclose your device and your device's *power supply*, *power cable*, and *interface cables*.
3. Generate, print, and attach the pre-paid shipping label to the exterior of your package. See [Shipping Your Storage Device \(p. 58\)](#) for information on how to get your pre-paid shipping label.

Generating Your Pre-Paid Shipping Label

This section describes how to generate your pre-paid shipping label for the package you'll send to AWS.

To generate your pre-paid shipping label

1. AWS provides you with a pre-paid shipping label that must be used when sending your device. To generate this label, after you have created your jobs, use the AWS Import/Export Web Service Tool as in the following example:

Example

```
CmdPrompt> java -jar lib\AWSImportExportWebServiceTool-1.0.jar  
GetShippingLabel
```

Note

The example assumes that `lib` is the directory that contains the AWS Import/Export Web Service Tool. Run the AWS Import/Export Web Service Tool from the directory where it was installed.

The system prompts you to enter your job ID, name, company, address, and phone number. If your address doesn't have a postal code, use the placeholder value of `00000`. The following is an example of the prompts and fictional values.

```
Version: 2012-01-14
Please enter the job ids each separated by comma: 796CK
---Please specify your address---
Enter name (Required):
Joe Random
Enter company (Required):
ACME Anything
Enter street1 (Required):
1234 Main St
Enter street2 (Optional):
Suite 101
Enter street3 (Optional):

Enter city (Required):
Seattle
Enter state or province (Required in US and Canada):
WA
Enter country (Required):
USA
Enter postal code (Required):
98101
Enter phone number (Required):
206-100-0000
A prepaid shipping label has been uploaded to https://s3.amazonaws.com/
MyImportExportBucket/shipping-label-796CK.pdf
```

The shipping label will look similar to the following example.

AWS Import/Export Shipping Instructions

Create Date: 1/19/15

JOBIDS: AAAAA, BBBB, CCCC, DDDD, EEEE, FFFF, GGGG, HHHH

To prepare and send your jobs:

1. Pack your storage devices. For external hard drives, please make sure to enclose your USB or eSATA connector and power supply.
2. Label each device with a clear, legible JobID.
3. Cut out the pre-paid shipping label below and securely attach it to your package.
4. Please make sure that only devices for following jobs are present in the package.
JOBIDS : AAAAA, BBBB, CCCC, DDDD, EEEE, FFFF, GGGG, HHHH
5. If you are shipping internationally, you must fill out the correct customs forms and you must pay all duties and taxes on your shipment. To find the right customs forms for you package, contact UPS Customer Service on the UPS website. Once you have the correct forms, fill them out as instructed by UPS before shipping your package to AWS.

IMPORTANT

We cannot process your package without the shipping label given below

----- CUT HERE -----



2. Pack your storage device in the package.

Note

For external hard drives, please make sure to enclose your power supply and any USB or eSATA connectors.

3. Label each device with a clearly legible JobID.
4. Cut out the pre-paid shipping label and securely attach it to your package.

Note

If you are having trouble using the pre-paid shipping label, or if you are shipping domestically within Singapore, contact [AWS Support Center](#) before shipping your device.

Shipping Multiple Devices

As a general rule, you must ship each device in a separate package. AWS Import/Export will, however, accept multiple devices in a single shipment if you follow the guidelines and limitations that are outlined in this topic.

Note

These requirements are only for shipping multiple devices per package. If you are shipping each device separately, see [Packing Your Storage Device \(p. 63\)](#).

If you ship multiple devices in a single shipment, your shipment must meet all of these criteria:

- Create a separate Import/Export job request, with a unique job ID, for each device.

- You may ship up to eight devices per container.
- The devices must be packed in a hard case designed to safely ship the devices, with a separate slot or compartment for each device.
- Label each slot and each hard drive with the corresponding job ID.
- If the devices require separate power supplies, power cables, and interface cables, be sure all of the necessary components are packaged with each device. Label each component with the corresponding job ID.
- Be sure all the labels are attached securely.
- When you generate your pre-paid shipping label, be sure to type in the job IDs for each included device, separated by commas. To learn more about generating your pre-paid shipping label, see [Generating Your Pre-Paid Shipping Label \(p. 63\)](#).

The following types of devices have additional specific requirements.

- **Bare SATA drives** — Bare drives require special care. Ship bare SATA drives in specially designed hard cases with a separate slot or compartment for each device.
- **Single-spindle external hard disks** — Pack your devices securely with bubble wrap or similar material so that the devices cannot shift in the container. It is especially important to include all cables, cords, and power supplies.
- **RAID devices** — These devices are often not designed for shipping with drives already mounted. Consult the manufacturer's recommendations for preparing the device for shipping. Pack your devices securely with bubble wrap or similar material so that the devices cannot shift in the container. It is especially important to include all cables, cords, and power supplies.
- **Multi-RAID devices** — Multi-RAID devices present special packaging problems. We recommend that you take extra precautions to pack these devices securely. Shipping multiple devices per shipment may incur larger return shipping costs.

Note

Shipping multiple devices per shipment may incur larger return shipping costs.

Mailing Your Storage Device

This section contains general guidance on mailing your storage device in a package to AWS. There might be a charge for returning your storage device back to you. You can estimate your return shipping costs by using the [AWS Import/Export Calculator](#).

General Considerations for Mailing Your Storage Device

The pre-paid UPS shipping label contains the correct address to ship your storage device to. Your device will be delivered to an AWS sorting facility and then forwarded by Amazon to the AWS data center. Arrange for UPS to pick up your package by calling them directly, or take your package to a UPS package drop off facility to be shipped to AWS. You will not have to pay UPS for the shipping charges, but AWS will add these charges to the fee charged for processing your device.

UPS will only have tracking information to the sorting facility. AWS updates the job status when the package is received by the AWS data center. When you send a `GetStatus` command, the status of your job will not show `At AWS` until the shipment has been received at the AWS data center.

Important

If you ship your storage device without using the pre-paid shipping label, AWS Import/Export will return your storage device without performing the job and you will be charged for any applicable return shipping charges and device-handling fees.

International Considerations for Mailing Your Storage Device

If you are shipping internationally, you must fill out the correct customs forms and you must pay all duties and taxes on your shipment.

- To find the right customs forms for your package, contact [UPS Customer Service](#) on the UPS website. Once you have the correct forms, fill them out as instructed by UPS before shipping your package to AWS.

Important

When sending or receiving storage devices internationally to and from the United States or Singapore, you must include the customs manifest options. A customs manifest is not required for shipments within the EU. For more information, see [Customs Manifest File Option \(p. 74\)](#).

- Shipping internationally might involve paying duties and taxes. You are responsible for paying all duties and taxes on your shipment. These duties and taxes are not included in the cost of the pre-paid shipping label. Packages with unpaid duties and/or taxes will be refused upon arrival.
- Similarly, you must pay all applicable duties and taxes on international returns sent to addresses outside of the United States or Singapore, if your Amazon S3 bucket is located in the US West (N. California) region or the Asia Pacific (Singapore) region. These duties and taxes will be charged directly by the return shipping carrier upon delivery of your package.

Important

To access Amazon S3 buckets, Amazon EBS snapshots, or Amazon Glacier vaults that are in the EU (Ireland) region, the shipping device must originate from and be shipped back to a location in the European Union.

Managing Your Jobs

Topics

- [Listing Your Jobs \(p. 67\)](#)
- [Updating a Job \(p. 68\)](#)
- [Getting Shipping Information \(p. 69\)](#)
- [Getting the Status of Your Jobs \(p. 69\)](#)
- [Canceling a Job \(p. 70\)](#)
- [Failed Jobs \(p. 70\)](#)

AWS Import/Export service provides ways for you to manage your import and export jobs. You can get the status of a job or list the jobs created by users under your AWS account, and you can modify or delete a job. If your job fails, AWS will notify you.

Listing Your Jobs

You use `ListJobs` to list jobs. You can only list jobs created by users under your AWS account. You might list jobs so that you can then get their status.

To list your jobs using the command line client

Use the `ListJobs` command.

```
> java -jar lib\AWSImportExportWebServiceTool-1.0.jar ListJobs
```

To list your jobs using REST

Submit a `ListJobs` request.

```
POST / HTTP/1.1
content-type:application/x-www-form-urlencoded;charset=utf-8
host: https://importexport.amazonaws.com
content-length:155
Action=ListJobs&SignatureVersion=2
&SignatureMethod=HmacSHA256&Version=2010-06-01&Signature=
%2FVfkltrBOoSUIlsWxRzN8rw%3D
```

You can limit the responses you get by using the `MaxJobs` parameter. The following example shows how to list up to 25 import jobs. These jobs are listed from newest to oldest.

```
POST / HTTP/1.1
content-type:application/x-www-form-urlencoded;charset=utf-8
host: https://importexport.amazonaws.com
content-length:163

Action=ListJobs&MaxJobs=25&SignatureVersion=2
&SignatureMethod=HmacSHA256&Version=2010-06-01&Signature=
%2FVfkltrBOoSUIlsWxRzN8rw%3D
```

Updating a Job

You use `UpdateJob` to update the specifics of how you want a job done. You specify a job using the job ID returned in the `CreateJob` response. You update a job request by replacing the original manifest with the manifest you include in this request. You can either modify the original manifest you submitted or start over and create a new manifest file. In either case, the original manifest is discarded.

You can only use `UpdateJob` after submitting a `CreateJob` request, but before the data transfer starts, and you can only use it on jobs you own.

To update a job using the command line client

Use the `UpdateJob` command with the new or updated manifest.

```
> java -jar lib\AWSImportExportWebServiceTool-1.0.jar UpdateJob JOBID Export
C:\DIRECTORY\updatedmanifest.txt
```

To update a job using REST

1. Modify the original manifest you submitted or start over and create a new manifest file.
2. URL-encode the manifest file.
3. Send an `Update` request.

The following example submits the preceding manifest file to update the job identified by `JOBID`.

```
POST / HTTP/1.1
content-type:application/x-www-form-urlencoded;charset=utf-8
host: https://importexport.amazonaws.com
content-length:741

Action=UpdateJob&JobId=JOBID&Manifest=manifestVersion
%3A%201.0%0Abucket%3A%20XMSAGE
AreturnAddress%3A%0A%20%20%20name%3A%20Amazon.com%20ATTN%20
Joe%20Random%20%0A%20%20%20street1%3A%201200%111%20Nosuch%20Ave%20
```



```
S.%0A%20%20%20city%3A%20Seattle%0A%20%20%20%20stateOrProvince%3A%20WA%0A%20%20%20postalCode%3A%2098114%0A%20%20%20%20phoneNumber%3A%20206-266-0000%0A%20%20%20country%3A%20USA%0AsetContentEncodingForGzFiles%3A%20yes%0Aexpires%3A%20tomorrow%0AcontentLanguage%3A%20Spanish%0Aacl%3A%20public-read%0AcacheControl%3A%20max-age%3D3600&JobType=Import&SignatureVersion=2&SignatureMethod=HmacSHA256&Version=2010-06-01&Signature=%2FVfKltRBOoSUilsWxRzN8rw%3D
```

Amazon Import/Export returns a response to notify you whether we were able to update your job.

Getting Shipping Information

You use `GetShipInfo` to get the shipping information for a job. For `manifestVersion 3.0` jobs, you get a PDF containing shipping instructions with a unique bar code to identify and authenticate your device.

The `GetShipInfo` action is not supported for REST requests, and can only be issues using the command line client. The command line client supports `GetShipInfo` for both *manifestVersion 2.0* and *manifestVersion 3.0* jobs.

To get shipping information using the command line client

Use the `GetShipInfo` command.

The following command retrieves the shipping information for the job *JOBID*.

```
>java -jar lib\AWSImportExportWebServiceTool-1.0.jar GetShipInfo JOBID
```

If your manifest file for the original order specified *manifestVersion:2.0* , the shipping information is returned in the current window. If your manifest file specified *manifestVersion:3.0* the current window displays the path to a PDF file containing your shipping information with some instructions on what to do with the PDF file.

Getting the Status of Your Jobs

You might like to know if the job is waiting to start, in progress, or completed. For some operations, such as `CancelJob` and `UpdateJob`, you might use `GetStatus` first because jobs cannot be canceled or updated if their status is `completed`.

When you ship your device, it will be delivered to a sorting facility, and then forwarded on to an AWS data center. When you send a `GetStatus` command, the status of your job will not show `At AWS` until the shipment has been received at the AWS data center.

Note

If you need assistance with your AWS Import/Export job, contact [AWS Support Center](#).

`GetStatus` returns the status of a specified job. You specify a job using the job ID returned in the `CreateJob` response. Example job statuses are pending, completed, in progress, device error, and expired. For more information about statuses, go to [GetStatus \(p. 107\)](#). You can only get the status of jobs you own.

To get the status of a job using the command line tool

Use the `GetStatus` command.

The following command returns the status of the job identified by *JOBID*.

```
> java -jar lib\AWSImportExportWebServiceTool-1.0.jar GetStatus JOBID
```

To get the status of a job using REST

Submit a `GetStatus` request.

The following request returns the status of the job identified by *JOBID*.

```
POST / HTTP/1.1
content-type:application/x-www-form-urlencoded;charset=utf-8
host: https://importexport.amazonaws.com
content-length:189

Action=GetStatus&JobId=JOBID&JobType=Import
&SignatureVersion=2&SignatureMethod=HmacSHA256&Version=2010-06-01
&Signature=%2FVfkltrBOoSUIlsWxRzN8rw%3D
```

Amazon Import/Export returns the status of your job and some fields from the manifest. For more information about the API operation, go to [GetStatus \(p. 107\)](#).

Canceling a Job

You use `CancelJob` to cancel a job. You specify the job to cancel using the job ID returned in the `CreateJob` response. The operation fails if the job is already complete. We can, however, cancel a job in progress. You can only cancel jobs created by users under your AWS account.

To cancel a job using the command line client

Use the `CancelJob` command.

The following command cancels the job *JOBID*.

```
> java -jar lib\AWSImportExportWebServiceTool-1.0.jar CancelJob JOBID
```

To cancel a job using REST

Submit a `CancelJob` request.

```
POST / HTTP/1.1
content-type:application/x-www-form-urlencoded;charset=utf-8
host: https://importexport.amazonaws.com
content-length:189

Action=CancelJob&JobId=JOBID&JobType=Import
&SignatureVersion=2&SignatureMethod=HmacSHA256&Version=2010-06-01
&SignatureMethod=%2FVfkltrBOoSUIlsWxRzN8rw%3D
```

Amazon Import/Export returns a response to notify you whether we were able to cancel your job. For more information about the API operation, go to [CancelJob \(p. 102\)](#).

Failed Jobs

Sometimes Import/Export jobs may fail due to various reasons such as bad sectors, unsupported file systems, damaged enclosures, shipping damages, or old worn out hardware. If a job fails, AWS will notify you at the email address specified in the manifest file.

It is AWS policy that all devices shipped from AWS facilities must be completely erased or only contain data encrypted by AWS. Failed Import/Export jobs are treated according to this policy.

If an import job fails, we will erase the contents of your device and return it to you. If device erasure cannot be performed, our support team will contact you with further information. Please note that some files may have already been imported into AWS before the job is cancelled.

If an export job fails, we will stop the export job and return your device to you. Please note that some files may have already been exported onto your device before this job was cancelled. These files are encrypted with the encryption PIN code or password you provided. If we are unable to initiate the export job, our support team will contact you with further information.

Manifest File Options Reference

The following sections describe the options in the manifest file.

The common manifest file options apply to all manifest files, including Amazon S3 import and export jobs and Amazon EBS and Amazon Glacier import jobs.

Include the customs manifest file option if you are shipping your device internationally.

Topics

- [Common Manifest File Options \(p. 71\)](#)
- [Customs Manifest File Option \(p. 74\)](#)
- [Import to Amazon S3 Manifest File Options \(p. 79\)](#)
- [Import to Amazon EBS Manifest File Options \(p. 86\)](#)
- [Import to Amazon Glacier Manifest File Options \(p. 89\)](#)
- [Export from Amazon S3 Manifest File Options \(p. 92\)](#)

Common Manifest File Options

The manifest file includes information related to processing your data and returning your storage device. The following table explains options that are common to all manifest files.

Option	Description	Required
<code>accessKeyId</code>	The <code>accessKeyId</code> option is deprecated. It is retained only for backward compatibility. Do not use <code>accessKeyId</code> with new AWS Import/Export jobs.	No
<code>deviceId</code>	Your storage device's serial number or other unique identifier. If your device does not have a unique number, please place a sticker with its own unique identifier onto the device and then enter that identifier as the <code>deviceId</code> . The following is an example device ID. <pre>deviceId: MyCompany489732</pre> Type: String Default: None	Yes
<code>generator</code>	A field describing the application that put together the manifest file and submitted the <code>CreateJob</code> or <code>UpdateJob</code> request. The following is an example of generator. <pre>generator: AWS Import/Export Sample App 1.0</pre> Type: String	No

Option	Description	Required
	Default: None	
logBucket	<p>The Amazon S3 bucket where AWS Import/Export saves your log. You must create a bucket before we can save log data to it; we do not create the bucket for you. The IAM user that creates the job must have write permissions on this bucket. The following is an example of a <i>logBucket</i> value.</p> <pre>logBucket: logging-bucket</pre> <p>Type: String</p> <p>Default: The import <i>bucket</i> for import to Amazon S3, otherwise None.</p> <p>Constraints: Must be an existing Amazon S3 bucket name.</p> <p>Note For export, your Amazon S3 log bucket and your Amazon S3 export bucket must be in the same region. If your buckets are in different regions, your job request will fail.</p>	Yes, except for import to Amazon S3.
logPrefix	<p>A string to insert between the bucket name and log report name to prevent name collisions. For more information, go to Preventing Log File Name Collisions (p. 55). The following is an example of a <i>logPrefix</i>.</p> <pre>logPrefix: logs/</pre> <p>Type: String</p> <p>Default: None</p>	No
manifestVersion	<p>The version of the manifest specification used to write the manifest file. The manifest version must be 2.0 for import and export to Amazon S3 and 3.0 for import to Amazon EBS and Amazon Glacier.</p> <p>Type: String</p> <p>Default: None</p> <p>Valid Values: 2.0 3.0</p>	Yes
notificationEmail	<p>A semicolon delimited list of email addresses to which you want us to send job completed notification emails.</p> <pre>notificationEmail: joe.doe@example.com</pre> <p>Type: String</p> <p>Default: None</p>	Yes

Option	Description	Required
returnAddress	<p>The address we return your storage device to after completing the job.</p> <p>The returnAddress option includes subfields, as shown in the following example.</p> <pre data-bbox="602 443 1281 730">returnAddress: name: Jane Roe company: Example Corp. street1: 123 Any Street city: Anytown stateOrProvince: WA postalCode: 91011-1111 phoneNumber: 206-555-1111 country: USA</pre> <p>The stateOrProvince subfield is required for USA and Canada. The subfields <i>street2</i> and <i>street3</i> are optional.</p> <p>Type: String</p> <p>Default: None</p> <p>Constraints: Your return address must be a physical street address and not a post office box.</p>	Yes
serviceLevel	<p>The service level for the job. For more information about specifying your job's service levels, go to Expediting the Return of Your Storage Device (p. 37).</p> <pre data-bbox="602 1142 1281 1199">serviceLevel: expeditedShipping</pre> <p>Type: String</p> <p>Default: standard</p> <p>Valid Values: standard expeditedShipping</p>	No

Example Import to Amazon S3 Manifest Using Common Options

The following example is the manifest file content for an import job showing most of the common manifest file options, including expedited shipping. It also includes the `bucket` option, the `eraseDevice` option, and the `notificationEmail` option because they are required for Amazon S3 manifest files.

```
manifestVersion: 2.0
bucket: data-load-bucket
deviceId: ABCDE
generator: AWS ImportExport Web Service Tool 1.0
logPrefix: logs
logBucket: iemanifest-log-bucket
prefix: imported/
eraseDevice: yes
notificationEmail: john.doe@example.com;jane.roe@example.com
returnAddress:
  name: Jane Roe
  company: Example Corp.
  street1: 123 Any Street
  city: Anytown
  stateOrProvince: WA
  postalCode: 91011-1111
  phoneNumber: 206-555-1111
  country: USA
serviceLevel: expeditedShipping
```

Customs Manifest File Option

When shipping a device internationally, you must include the `customs` manifest file option with its required subfields in your manifest file. AWS Import/Export uses these values to validate your inbound shipment and prepare your outbound customs paperwork. If you exclude these fields from your manifest and the country that we are shipping your storage device to is outside the country of the data-loading facility, your job request will fail.

Note

This requirement does not apply to shipments in the European Union. When shipping your device between the EU (Ireland) region data-loading facility and a European Union member nation, you do not need to include the `customs` options.

To access Amazon S3 buckets that are in the EU (Ireland) region, the shipping device must originate from and be shipped back to a location in the European Union.

All of the options in the following table are subfields of the `customs` option, for example:

```
customs:
  dataDescription: This device contains medical test results.
  encryptedData: yes
  encryptionClassification: 5D992
  exportCertifierName: John Doe
  requiresExportLicense: yes
  deviceValue: 250.00
  deviceCountryOfOrigin: Ghana
  deviceType: externalStorageDevice
```

Option	Description	Required
customs	<p>Specify this option to provide information for AWS Import/Export to complete the customs-related paperwork when returning your storage device internationally from the United States, or Singapore.</p> <p>Note The customs option is not required when shipping devices within the European Union.</p> <p>All other options described in this table are subfields of this option. The following shows the <code>customs</code> option with its required subfields.</p> <pre style="border: 1px solid black; padding: 5px;"> customs: dataDescription: Medical test results. encryptedData: yes encryptionClassification: 5D992 exportCertifierName: John Doe requiresExportLicense: yes deviceValue: 250.00 deviceCountryOfOrigin: Ghana deviceType: externalStorageDevice typeOfExport: return </pre> <p>Type: String Default: None</p>	Yes
dataDescription	<p>Provide a brief description of the data you are importing or exporting from AWS Import/Export.</p> <pre style="border: 1px solid black; padding: 5px;"> dataDescription: This device contains medical test results. </pre> <p>Type: String Default: None</p>	Yes
deviceCountryOfOrigin	<p>The country where the device was manufactured. This is usually indicated somewhere on the device with a "made in" or "assembled in" label. Optionally, you can use the ISO country codes. For more information, go to http://www.iso.org/iso/home/standards/country_codes/iso-3166-1_decoding_table.htm.</p> <pre style="border: 1px solid black; padding: 5px;"> deviceCountryOfOrigin: Japan </pre> <p>Type: String Default: None</p>	Yes

Option	Description	Required
deviceHTS	<p>You may override the default Harmonized Tariff Schedule (HTS) code associated with the specified device type, you provided by using the <code>deviceType</code> option. This value of this option must be a valid 10 digit HTS code.</p> <pre style="border: 1px solid black; padding: 5px;">deviceHTS: 8471.70.4000</pre> <p>Type: String Constraints: 10 digit HTS code.</p>	Yes
deviceValue	<p>The monetary value (in U.S. dollars) of the storage device. When shipping internationally, the device value must be less than \$2,500.00. The following example specifies that the storage device value is \$250.00.</p> <pre style="border: 1px solid black; padding: 5px;">storageDeviceValue: 250.00</pre> <p>Type: Float Default: None</p>	Yes
deviceType	<p>Specifies the type of device that you are sending. Each device type defaults to an HTS code that's used in your commercial invoice. We use the following default mapping between the device type and HTS code:</p> <ul style="list-style-type: none"> • <code>externalStorageDevice</code> : 8471.70.4065 • <code>usbFlashDrive</code> : 8471.70.9000 • <code>sataDrive</code> : 8471.70.2000 <p>You can override these default mappings by specifying the <code>deviceHTS</code> option.</p> <pre style="border: 1px solid black; padding: 5px;">deviceType: usbFlashDrive</pre> <p>Type: Enum Default: None Valid Values: <code>externalStorageDevice</code> <code>usbFlashDrive</code> <code>sataDrive</code></p>	Yes

Option	Description	Required
encryptedData	<p>Specifies whether the data on your device is encrypted. If yes, then you must include the <code>encryptionClassification</code> option. The following example specifies that the data is encrypted.</p> <pre data-bbox="521 386 1269 447">encryptedData: yes</pre> <p>Type: String Default: None Valid Values: <code>yes</code> <code>no</code></p>	Yes
encryptionClassification	<p>If the device includes encrypted data, this field allows you to specify the software's classification. When shipping encrypted data to or from the United States the encryption software must be classified as 5D992 under the United States Export Administration Regulations.</p> <pre data-bbox="521 802 1269 863">encryptionClassification: 5D992</pre> <p>Type: String Default: None Condition: Required when <code>encryptedData</code> value is <code>yes</code>.</p>	Yes
exportCertifierName	<p>Specifies the name the person or company responsible for shipping the storage device. The following example specifies the certifier's name.</p> <pre data-bbox="521 1161 1269 1222">exportCertifierName: John Doe</pre> <p>Type: String Default: None</p>	Yes
requiresExportLicense	<p>Specifies whether the import or export of the device or data require a license under the regulations of any applicable country, such as the United States Export Administration Regulations or the International Traffic in Arms Regulations. Note that only devices and data which do not require a license, are classified as EAR99 under United States Export Administration Regulations, and are not subject to the International Traffic in Arms Regulations are eligible for AWS Import/Export.</p> <pre data-bbox="521 1612 1269 1673">requiresExportLicense: no</pre> <p>Type: String Default: None Valid Values: <code>yes</code> <code>no</code></p>	Yes

Option	Description	Required
typeOfExport	<p>Specifies the type of export.</p> <p>The value <code>return</code> indicates the shipment is being returned to the country from which it was shipped.</p> <p>The value <code>temporary</code> indicates the shipment will be returning from the destination country to the AWS data loading facilities country.</p> <p>The value <code>permanent</code> means that the shipment will remain in the country it is being sent to, and the shipment didn't originate from that country.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <pre>typeOfExport: permanent</pre> </div> <p>Type: String</p> <p>Default: <code>return</code></p> <p>Valid Values: <code>return</code> <code>permanent</code> <code>temporary</code></p>	Optional

Example Import to Amazon S3 Manifest with Customs Option

The following example is the manifest file content for an import job to Amazon S3, including Customs option.

```
manifestVersion: 2.0
deviceId: ABCDE
eraseDevice: yes
bucket: my-amz-bucket
acl: authenticated-read
cacheControl: max-age=3600
contentDisposition: attachment
contentLanguage: en
contentTypes:
  csv: application/vnd.ms-excel
customs:
  dataDescription: This device contains medical test results.
  encryptedData: yes
  encryptionClassification: 5D992
  exportCertifierName: John Doe
  requiresExportLicense: yes
  deviceValue: 250.00
  deviceCountryOfOrigin: Brazil
  deviceType: externalStorageDevice
diskTimestampMetadataKey: disk-timestamp
generator: AWS Import Export Docs
ignore:
  - \.psd$
  - \.PSD$
logPrefix: logs
logBucket: iemanifest-bucket
notificationEmail: john.doe@example.com;jane.doe@example.com
prefix: imported/
setContentEncodingForGzFiles: yes
staticMetadata:
  import-timestamp: Wed, 23 Feb 2011 01:55:59 GMT
  application: AppImportedData
returnAddress:
  name: John Doe
  company: Example Corp
  street1: UG 8 Golf Course Road
  city: Anycity
  stateOrProvince: Haryana
  postalCode: 122002
  phoneNumber: +91 431 555 1000
  country: India
serviceLevel: standard
```

Import to Amazon S3 Manifest File Options

The Amazon S3 import manifest file includes information related to importing your data into Amazon S3 and returning your storage device. This section explains options that are unique to Amazon S3 import manifest files. For information about options that are common to all manifest files, see [Common Manifest File Options \(p. 71\)](#).

Amazon S3 import and export use manifest file version 2.0. Set `manifestVersion` to `2.0` for all Amazon Amazon S3 import and export manifest files.

Option	Description	Required
acl	<p>Specifies the access control list (ACL) to apply to each object loaded to Amazon S3, for example, <code>acl: public-read</code>. The default value gives full permissions only to the person who uploaded the object to the bucket. For descriptions of the valid ACL values, go to Canned ACL. The following example sets the ACL of the uploaded objects.</p> <pre style="border: 1px solid black; padding: 5px;">acl: public-read</pre> <p>Note If you specify an ACL, the IAM user that creates the import job must have <code>s3:PutObjectAcl</code> permission.</p> <p>Type: String</p> <p>Default: private</p> <p>Valid Values: private public-read public-read-write authenticated-read</p>	No
bucket	<p>Specifies the Amazon S3 bucket where Disk loads your data. You must create a bucket before we can load data into it; we do not create the bucket for you. The account doing the load must have write permissions on this bucket. The following is an example of a bucket name.</p> <pre style="border: 1px solid black; padding: 5px;">bucket: data-load-bucket</pre> <p>Type: String</p> <p>Default: None</p> <p>Constraints: Must be an existing Amazon S3 bucket name</p>	Yes
cacheControl	<p>Specifies the value of the <code>Cache-Control</code> HTTP header field for all imported files. We do not validate this value. For more information on <code>cacheControl</code>, please go to http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html#sec14.9.</p> <pre style="border: 1px solid black; padding: 5px;">cacheControl: max-age=3600</pre> <p>Type: String</p> <p>Default: none</p>	No

Option	Description	Required
contentDisposition	<p>Specifies the Content-Disposition HTTP header to apply to all loaded files. For more details, go to RFC 2616 section 19. The following is an example <i>contentDisposition</i> value.</p> <pre data-bbox="691 422 1300 478">contentDisposition: attachment</pre> <p>Note This example causes browsers to prompt to save the Amazon S3 object rather than displaying the object directly in the browser.</p> <p>Type: String Default: None</p>	No
contentLanguage	<p>Specifies the value of the HTTP Content-Language header field for all imported files. We do not validate this value. For more information about the Content-Language header, go to http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html#sec14.12.</p> <pre data-bbox="691 926 1300 982">contentLanguage: es</pre> <p>Type: String Default: none</p>	No
contentTypes	<p>Contains a map of case-insensitive strings that are key/value pairs that set the <i>Content-Type</i> header. Each key/value pair contains a key that is the file extension (for example, <i>jpg</i>) and a corresponding value for the <i>Content-Type</i> (for example, <i>image/jpeg</i>). These values take precedence over the default file extension to Content-Type mapping. For more details on the default mappings, see Appendix C: File Extension to MIME Types (p. 134).</p> <p>The following is an example set of key/value pairs.</p> <pre data-bbox="691 1461 1300 1717">contentTypes : jpg: image/jpeg JPG: image/jpeg gif: image/gif GIF: image/gif mp3: audio/mpeg txt: text/plain zip: application/zip</pre> <p>Type: Map of string to string Default: None</p>	No

Option	Description	Required
<p>diskTimestampMetadataKey</p>	<p>A user-defined key for adding a storage device's last modified time stamp in the metadata of the content imported to Amazon S3. The value of this key has the same RFC 1123 format as the Amazon S3 Date header: [DAY " , "] DD-MON-YYY HH:MM:SS zone time (for example, <i>Wed, 23 Feb 2011 01:55:59 GMT</i>). The key name is prefixed with <i>x-amz-meta-</i>. For example, if you specify:</p> <pre style="border: 1px solid black; padding: 5px; margin: 10px 0;">diskTimestampMetadataKey: disk-timestamp</pre> <p>the following is the result of a <i>GET</i> operation on the Amazon S3 content:</p> <pre style="border: 1px solid black; padding: 5px; margin: 10px 0;">x-amz-meta-disk-timestamp: Wed, 23 Feb 2011 01:55:59 GMT</pre> <p>Type: String Default: None</p> <p>Constraints: The user-defined key must be a valid HTTP header key (ASCII-only, no colons, no spaces). The key name chosen here must not also be a key name used in the <i>staticMetadata</i> feature.</p>	<p>No</p>
<p>eraseDevice</p>	<p>Acknowledges that AWS will erase the contents of your storage device after importing the data. All writable blocks on your storage device will be overwritten with zeros. You will need to repartition and format your device after the wipe.</p> <p>The following is an example entry.</p> <pre style="border: 1px solid black; padding: 5px; margin: 10px 0;">eraseDevice: yes</pre> <p>Type: String Default: None Valid Values: yes true</p>	<p>Yes</p>

Option	Description	Required
<p>expires</p>	<p>Specifies the value of the HTTP Expires header field for all imported files. Expire values should be dates using the RFC 1123 date format. For more information about the Expires header, go to http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html#sec14.21.</p> <pre style="border: 1px solid black; padding: 2px;">expires: Thu, 07 Jan 2010 16:00:00 GMT</pre> <p>Type: String (24 bytes)</p> <p>Default: None</p> <p>Constraints: Must follow RFC 1123 date time format, [DAY ", "] DD-MON-YYY HH:MM:SS zone time, for example "Mon , 12 Apr 2010 23:20:00 UT". For more information, go to RFC 1123 and RFC 822.</p>	<p>No</p>
<p>ignore</p>	<p>Specifies directories, files, or file types that we should not load from your storage device. For more information about <i>ignore</i>, see Excluding Files and Directories (p. 39).</p> <p>Type: Array of strings</p> <p>Default: We load all files except the SIGNATURE file</p> <p>Constraints: The dash followed by a space, "- ", is YAML syntax and must precede each filter</p>	<p>No</p>
<p>pinCode</p>	<p>If a storage device with hardware-based encryption was supplied, the PIN code for the device. For more information, see Encrypting Your Data (p. 61).</p> <pre style="border: 1px solid black; padding: 2px;">pinCode: 1234</pre> <p>Important Do not lose your PIN code, or you will not be able to decrypt your data. AWS Import/Export will not send the PIN code with the encrypted device.</p> <p>Type: Integer</p> <p>Default: None</p>	<p>No</p>

Option	Description	Required
prefix	<p>Specifies a string to insert between the bucket name and full path of each file located on your storage device. For more information, see Specifying Key Prefix (p. 40).</p> <p>Type: String</p> <p>Default: None</p> <p>Constraints: A key is a sequence of unicode characters whose UTF-8 encoding is at most 1024 bytes long. If the <code>logPrefix + import-log-JOBID</code> is longer than 1024 bytes. Disk returns an <code>InvalidmanifestField</code> error from the <code>CreateJob</code> response.</p>	No
setContentEncodingForGzFiles	<p>Specifies that files compressed with gzip should have their <code>Content-Encoding</code> header set to gzip and that the <code>Content-Type</code> header should ignore the file endings <code>.gz</code> and <code>.gzip</code> when determining file content types. For more information, see Handling Gzip Files (p. 38). We do not validate this value.</p> <pre data-bbox="691 894 1300 953">setContentEncodingForGzFiles: Yes</pre> <p>Type: String</p> <p>Default: None</p>	No
staticMetadata	<p>This option defines a user-defined key/value pairs to apply to every file imported into Amazon S3. The key/value pair is prefixed with <code>x-amz-meta-</code>. For example, if you specify:</p> <pre data-bbox="691 1230 1300 1373">staticMetadata: import-timestamp: Wed, 23 Feb 2011 01:55:59 GMT application: MyBackupApp</pre> <p>The following is the result of a <code>GET</code> operation on the Amazon S3 content:</p> <pre data-bbox="691 1482 1300 1604">x-amz-meta-import-timestamp: Wed, 23 Feb 2011 01:55:59 GMT x-amz-meta-application: MyBackupApp</pre> <p>Type: Map of string to string</p> <p>Default: None</p> <p>Constraints: The user-defined keys must be valid HTTP header keys (ASCII-only, no colons, no spaces); their values must be ASCII-only. The key name chosen here must not also be a key name used in the <code>diskTimestampMetadataKey</code> feature.</p>	No

Option	Description	Required
storageClass	<p>Specifies the Amazon S3 storage class for the import job. For more information about the Amazon S3 storage class, go to the Amazon S3 Developer Guide.</p> <pre style="border: 1px solid black; padding: 5px;">storageClass: REDUCED_REDUNDANCY</pre> <p>Type: Enum Default: STANDARD Valid Values: STANDARD REDUCED_REDUNDANCY</p>	No
substitutions	<p>This option allows you to provide strings to replace existing values (such as object keys or file names) between the Amazon S3 bucket and the designated device during imports or exports. Matches for your provided values are substituted for the existing values before the import or export operation. The values specified on the left side of the colon are replaced with the values on the right side. Substitutions are applied in length order; the longest matching option is applied first. For more information about working with substitutions, see Working with Amazon S3 Substitutions (p. 41).</p> <pre style="border: 1px solid black; padding: 5px;">substitutions: ", " : "\$COMMA\$"</pre> <p>Type: String Default: None</p>	No
trueCryptPassword	<p>If the data was encrypted using TrueCrypt, the password that was provided when the device was encrypted. For more information about encrypting data using TrueCrypt, go to Encrypting Your Data (p. 61).</p> <p>The password must not contain an asterisk (*) or quote character ('). If the password contains other special characters, enclose the string in double quote characters.</p> <p>The following is an example of <i>trueCryptPassword</i></p> <pre style="border: 1px solid black; padding: 5px;">trueCryptPassword: SimpleButEasilyCrackedEXAMPLE</pre> <p>Type: String Default: none</p>	No

Example Import to Amazon S3 Manifest

The following example is the manifest file content for an import job to Amazon S3, including expedited shipping and the required `eraseDevice` and `notificationEmail` options.

```
manifestVersion: 2.0
deviceId: ABCDE
eraseDevice: yes
notificationEmail: john.doe@example.com;jane.roe@example.com
bucket: my-amz-bucket
acl: authenticated-read
cacheControl: max-age=3600
contentDisposition: attachment
contentLanguage: en
contentTypes:
  csv: application/vnd.ms-excel
diskTimestampMetadataKey: disk-timestamp
generator: AWS Import Export Docs
ignore:
  - \.psd$
  - \.PSD$
logPrefix: logs
logBucket: iemanifest-bucket
prefix: imported/
setContentEncodingForGzFiles: yes
staticMetadata:
  import-timestamp: Wed, 23 Feb 2011 01:55:59 GMT
  application: AppImportedData
pinCode:4321
trueCryptPassword: SimpleButEasilyCrackedEXAMPLE
returnAddress:
  name: Jane Roe
  company: Example Corp.
  street1: 123 Any Street
  city: Anytown
  stateOrProvince: WA
  postalCode: 91011-1111
  phoneNumber: 206-555-1111
  country: USA

serviceLevel: expeditedShipping
```

Import to Amazon EBS Manifest File Options

The Amazon EBS import manifest file includes information related to importing your data into Amazon EBS and returning your storage device. This section explains options that are unique to Amazon EBS import manifest files. For information about options that are common to all manifest files, see [Common Manifest File Options](#) (p. 71).

Note

Amazon EBS and Amazon Glacier use only manifest file version 3.0. Set `manifestVersion` to 3.0 for all Amazon EBS and Amazon Glacier manifest files.

An Amazon EBS import creates a virtual copy of your device as a single image. The device's file system won't be automatically mounted to an Amazon EC2 instance. The maximum size of an Amazon EBS volume is 16 TB. Note that the maximum capacity of a device is independent of the amount of data stored on the device.

Option	Description	Required
eraseDevice	<p>A value that acknowledges that AWS will erase the contents of your storage device after importing the data. All writable blocks on your storage device will be overwritten with zeros. You will need to repartition and format your device after the wipe.</p> <p>Example</p> <pre data-bbox="691 499 1300 558">eraseDevice: yes</pre> <p>Type: String Default: None Valid Values: yes true</p>	Yes
operations	<p>The <i>operations</i> option is a container for one or more subfields. You specify operations parameters by a dash followed by a set of subfields.</p> <p>The following example shows the <i>operations</i> option with the required Amazon EBS subfields.</p> <pre data-bbox="691 968 1300 1142">operations: - destination: ebs-snapshot source: device region: us-east-1 deviceCapacityGreaterThan1TB: no</pre> <p>See Operations Subfields (p. 87) for details about each subfield.</p> <p>Type: String Default: None</p>	Yes
pinCode	<p>If a storage device with hardware-based encryption was supplied, the PIN code for the device. For more information, see Encrypting Your Data (p. 61).</p> <pre data-bbox="691 1472 1300 1530">pinCode: 1234</pre> <p>Important Do not lose your PIN code, or you will not be able to decrypt your data. AWS Import/Export will not send the PIN code with the encrypted device.</p> <p>Type: Integer Default: None</p>	No

Operations Subfields

The following table describes the subfields of the Operations parameter

Operations Subfields	Description	Required
destination	<p>The destination of the data.</p> <p>For an Amazon EBS import operation the destination is <i>ebs-snapshot</i>.</p> <p>Type: String</p> <p>Default: None</p> <p>Valid Values: ebs-snapshot</p>	Yes
deviceCapacityGreaterThan1TB	<p>A value that specifies if the device capacity is larger than 1 TB. Disk now supports Amazon EBS imports of 16 TB.</p> <p>Type: String</p> <p>Default: None</p> <p>Valid Values: yes no</p>	Yes
region	<p>The region to target for the import operation.</p> <p>Type: String</p> <p>Default: None</p> <p>Valid Values: us-east-1 us-west-1 us-west-2 eu-west-1 ap-southeast-1</p> <p>For more information about regions go to the AWS Import/Export Disk Calculator.</p>	Yes
source	<p>The originator of the data. For an import job the origin is the device.</p> <p>Type: String</p> <p>Default: None</p> <p>Valid Values: device</p>	Yes

Example Import to Amazon EBS Manifest

The following example is the manifest file content for an import job to Amazon EBS, including expedited shipping.

```
manifestVersion: 3.0
deviceId: ABCDE
eraseDevice: yes
generator: AWS Import Export Docs
logPrefix: logs
logBucket: iemanifest-bucket
notificationEmail: john.doe@example.com;jane.roe@example.com
operations:
  - destination: ebs-snapshot
    source: device
    region: us-east-1
    deviceCapacityGreaterThan1TB: no
returnAddress:
  name: Jane Roe
  company: Example Corp.
  street1: 123 Any Street
  city: Anytown
  stateOrProvince: WA
  postalCode: 91011-1111
  phoneNumber: 206-555-1111
  country: USA
serviceLevel: expeditedShipping
```

Import to Amazon Glacier Manifest File Options

The Amazon Glacier import manifest file includes information related to importing your data into Amazon Glacier and returning your storage device. This section explains options that are unique to Amazon Glacier import manifest files. AWS Import/Export does not support exporting from Amazon EBS or Amazon Glacier. For information about options that are common to import and export manifest files, see [Common Manifest File Options \(p. 71\)](#).

Note

Amazon EBS and Amazon Glacier only use manifest file version 3.0. Set *manifestVersion* to 3.0 for all Amazon EBS and Amazon Glacier manifest files.

Option	Description	Required
eraseDevice	<p>Acknowledges that AWS will erase the contents of your storage device after importing the data. All writable blocks on your storage device will be overwritten with zeros. You will need to repartition and format your device after the wipe.</p> <p>The following is an example entry.</p> <pre>eraseDevice: yes</pre> <p>Type: String Default: None Valid Values: yes true</p>	Yes

Option	Description	Required
operations	<p>The <i>operations</i> option is a container for one or more subfields. You specify operations parameters by a dash followed by a set of subfields.</p> <p>The following example shows <i>operations</i> with the required Amazon Glacier subfields.</p> <pre style="border: 1px solid black; padding: 5px;">operations: - destination: glacier source: device region: us-east-1 vaultName: 2012-07_archive archiveComment: daily_2012-07-24</pre> <p>For more information about each subfield, see Operations Subfields (p. 90).</p> <p>Type: String</p> <p>Default: None</p>	Yes
pinCode	<p>If a storage device with hardware-based encryption was supplied, the PIN code for the device. For more information, see Encrypting Your Data (p. 61).</p> <pre style="border: 1px solid black; padding: 5px;">pinCode: 1234</pre> <p>Important Do not lose your PIN code, or you will not be able to decrypt your data. AWS Import/Export will not send the PIN code with the encrypted device.</p> <p>Type: Integer</p> <p>Default: None</p>	No

Operations Subfields

The following table describes the subfields of the Operations parameter

Operations Subfields	Description	Required
archiveComment	<p>A description for the archive. Amazon Glacier creates an archive on the specified vault using this text as the archive description.</p> <p>The following is an example entry.</p> <pre style="border: 1px solid black; padding: 5px;">archiveComment: daily archive 2012-07-2</pre> <p>Constraints: Maximum length is 997 characters.</p> <p>Type: String</p>	Yes

Operations Subfields	Description	Required
	Default: None	
destination	<p>The destination of the data.</p> <p>For an Amazon Glacier import operation the destination is <i>glacier</i>.</p> <p>Type: String</p> <p>Default: None</p> <p>Valid Values: glacier</p>	Yes
region	<p>The region to target for the import operation.</p> <p>Type: String</p> <p>Default: None</p> <p>Valid Values: us-east-1 us-west-1 us-west-2 eu-west-1</p> <p>For more information about regions go to the AWS Import/Export Disk Calculator.</p>	Yes
source	<p>The originator of the data. For an import job, the origin is the device.</p> <p>Type: String</p> <p>Default: None</p> <p>Valid Values: device</p>	Yes
vaultName	<p>Specifies the Amazon Glacier vault where Disk loads your data. You must create a vault before we can load data into it; we do not create the vault for you. The account doing the load must have write permissions on this vault.</p> <p>Type: String</p> <p>Default: None</p> <p>Constraints: Must be an existing Amazon Glacier vault name</p>	Yes

Example Import to Amazon Glacier Manifest

The following example is the manifest file content for an import job to Amazon Glacier, including expedited shipping.

```
manifestVersion: 3.0

deviceId: 49382
eraseDevice: yes
logBucket: myBucket
logPrefix: logs
generator: AWS Import/Export Command Line Tool
notificationEmail: john.doe@example.com;jane.roe@example.com
returnAddress:
  name: Jane Roe
  company: Example Corp.
  street1: 123 Any Street
  city: Anytown
  stateOrProvince: WA
  postalCode: 91011-1111
  phoneNumber: 206-555-1111
  country: USA
operations:
  - destination: glacier
    source: device
    region: us-east-1
    vaultName: MyGlacierVault
    archiveComment: July 24, 2012 daily archive
serviceLevel: expeditedShipping
```

Export from Amazon S3 Manifest File Options

The export manifest file contains information related to exporting your data from Amazon S3 onto your storage device. This section describes options that are unique to export manifest files. For information about options that are common to import and export manifest files, see [Common Manifest File Options \(p. 71\)](#).

Amazon S3 import and export only use manifest file version 2.0. Set **manifestVersion** to *2.0* for all Amazon S3 import and export manifest files.

Option	Description	Required
fileSystem	<p>Specifies the file system on your storage device. The following is an example <i>fileSystem</i> entry.</p> <pre>fileSystem: NTFS</pre> <p>Type: String Default: None Valid Values: NTFS EXT4</p>	Yes
operations	<p>A container that takes subfields that specify the operations to perform on each bucket for this job. The subfields are name-value pairs. For example, <i>exportBucket</i> specifies the bucket from which to export data. For more information,</p>	Yes

Option	Description	Required
	<p>see Operations Export Manifest Option (p. 55). The following example shows <i>operations</i> with two subfields, <i>exportBucket</i> and <i>endMarker</i>.</p> <pre data-bbox="626 380 1289 579">operations: - exportBucket: bucket-data-comes-from targetDirectory: myexport/stuff beginMarker: images/starwars endMarker: images/xena prefix: exported/</pre> <p>For information about each subfield, see Operations Subfields (p. 94).</p> <p>Type: String</p> <p>Default: None</p>	
pinCode	<p>If a storage device with hardware-based encryption was supplied, the PIN code for the device.</p> <p>*Either <code>pinCode</code> or <code>trueCryptPassword</code> is required for all export jobs. For more information, see Encrypting Your Data (p. 61).</p> <pre data-bbox="626 989 1289 1052">pinCode: 1234</pre> <p>Important Do not lose your PIN code, or you will not be able to decrypt your data. AWS Import/Export will not send the PIN code with the encrypted device.</p> <p>Type: Integer</p> <p>Default: None</p>	Yes*
recoveryDirectory	<p>This is the directory on your storage device where we save files whose filenames Disk must change from their keys. This happens often because characters that are valid in keys are not always valid for filenames. The following example names the recovery directory <code>LostAndFound</code>.</p> <pre data-bbox="626 1493 1289 1556">recoveryDirectory: LostAndFound</pre> <p>Type: String</p> <p>Default: EXPORT-RECOVERY</p>	No

Option	Description	Required
substitutions	<p>This option allows you to provide strings to replace existing values (such as object keys or file names) between the Amazon S3 bucket and the designated device during imports or exports. Matches for your provided values are substituted for the existing values before the import or export operation. The values specified on the left side of the colon are replaced with the values on the right side. Substitutions are applied in length order; the longest matching option is applied first. For more information about working with substitutions, see Working with Amazon S3 Substitutions (p. 41).</p> <pre>substitutions: ", " : "\$COMMA\$"</pre> <p>Type: String</p> <p>Default: None</p>	No
trueCryptPassword	<p>AWS Import/Export will use the password to encrypt your data using TrueCrypt during the export.</p> <p>The password must not contain an asterisk (*) or quote character (' '). If the password contains other special characters, enclose the string in double quote characters.</p> <p>*Either <code>pinCode</code> or <code>trueCryptPassword</code> is required for all export jobs. For more information, see Encrypting Your Data (p. 61).</p> <p>Important Do not lose your password, or you will not be able to decrypt your data. AWS Import/Export will not send the password with the encrypted device.</p> <p>For more information about encrypting data by using TrueCrypt, go to Encrypting Your Data (p. 61).</p> <p>The following is an example of <code>trueCryptPassword</code></p> <pre>trueCryptPassword: SimpleButEasilyCrackedEXAMPLE</pre> <p>Type: String</p> <p>Default: none</p>	Yes*

Operations Subfields

The following table describes the subfields of the Operations parameter

Operations Subfield	Description	Required
beginMarker	Indicates where in the bucket to begin exporting data. The export job only includes keys that occur	No

Operations Subfield	Description	Required
	<p>alphabetically after, but not including, <i>beginMarker</i>. For example, if <i>beginMarker</i> is <i>alpha</i> and <i>endMarker</i> is <i>omega</i>, then keys <i>alpha-1</i> and <i>omega</i> are exported, but <i>alpha</i> and <i>omega-1</i> are not exported. This option is convenient for limiting the number of files to export and for splitting large export jobs between multiple devices. The following is an example <i>beginMarker</i> value.</p> <pre style="border: 1px solid black; padding: 5px;">operations: - exportBucket: bucket-data-comes-from beginMarker: images/alpha endMarker: images/omega</pre> <p>Type: String Default: none</p>	
endMarker	<p>Indicates where in the bucket to stop exporting data. The export job only includes keys that occur alphabetically before and including the key that matches <i>endMarker</i>. For example, if <i>beginMarker</i> is <i>alpha</i> and <i>endMarker</i> is <i>omega</i>, then keys <i>alpha-1</i> and <i>omega</i> are exported, but <i>alpha</i> and <i>omega-1</i> are not exported. This option is convenient for limiting the number of files to export and splitting large export jobs across multiple devices. The following is an example <i>endMarker</i> value.</p> <pre style="border: 1px solid black; padding: 5px;">operations: - exportBucket: bucket-data-comes-from beginMarker: images/alpha endMarker: images/omega</pre> <p>Type: String Default: none</p>	No

Operations Subfield	Description	Required
exportBucket	<p>Specifies the Amazon S3 bucket where AWS Import/Export retrieves your data. Each listing under <i>operations</i> must have an <i>exportBucket</i> option. The AWS IAM user that created the job must have read permissions on the bucket and objects. If no other options are specified with the listing, AWS Import/Export exports all files in the bucket to your storage device. The following is an example of an <i>exportBucket</i> name.</p> <pre style="border: 1px solid black; padding: 5px;">operations: - exportBucket: bucket-data-comes-from</pre> <p>Type: String</p> <p>Default: None</p> <p>Constraints: Must be an existing Amazon S3 bucket name</p> <p>Note For export, your Amazon S3 log bucket and your Amazon S3 export bucket must be in the same region. If your buckets are in different regions, your job request will fail.</p>	Yes
prefix	<p>Specifies the path in the <i>exportBucket</i> where AWS Import/Export finds the data to export. All keys that contain the prefix are saved to your storage device. For more information, go to Managing File Exports (p. 55). Note that <i>prefix</i> has a different meaning when used in import manifest files.</p> <p>If the <i>logPrefix</i> + <i>import-log-JOBID</i> is longer than 1024 bytes, Disk returns an <i>InvalidManifestField</i> error from the <code>CREATE JOB</code> command.</p> <p>The following example exports all files under the directory <i>images</i>.</p> <pre style="border: 1px solid black; padding: 5px;">operations: - prefix: images</pre> <p>Type: String</p> <p>Default: None</p> <p>Constraints: A key is a sequence of unicode characters whose UTF-8 encoding is at most 1024 bytes long.</p>	No

Operations Subfield	Description	Required
targetDirectory	<p>Indicates where to export the data to on your storage device. In the following example, AWS Import/Export exports the contents of the bucket, <code>bucket-data-comes-from</code>, to <code>myexport/stuff</code> on the storage device.</p> <pre>operations: - exportBucket: bucket-data-comes-from targetDirectory: myexport/stuff</pre> <p>Type: String</p> <p>Default: The specified <code>exportBucket</code>.</p>	No

Example Export from Amazon S3 Manifest

The following example is the manifest file content for an export job from Amazon S3, including expedited shipping.

```
manifestVersion: 2.0
deviceId: ABCDE
fileSystem: NTFS
generator: AWS Import Export Docs
logPrefix: logs
logBucket: iemanifest-bucket
notificationEmail: john.doe@example.com;jane.roe@example.com
trueCryptPassword: SimpleButEasilyCrackedEXAMPLE
operations:
  - exportBucket: my-amz-bucket
    targetDirectory: myexport/stuff
    beginMarker: images/starwars
    endMarker: images/xena
    prefix: exported/
recoveryDirectory: LostAndFound
returnAddress:
  name: Jane Roe
  company: Example Corp.
  street1: 123 Any Street
  city: Anytown
  stateOrProvince: WA
  postalCode: 91011-1111
  phoneNumber: 206-555-1111
  country: USA
serviceLevel: expeditedShipping
```

API Reference

The following sections explain the AWS Import/Export Disk application programming interface (API). The Disk API is only for the Disk feature and is not compatible with the AWS Snowball feature or the Snowball appliance. Snowball and Disk are independent of each other, and actions in one do not affect the other.

Topics

- [Making Query Requests \(p. 98\)](#)
- [Actions \(p. 101\)](#)
- [Common Query Parameters \(p. 121\)](#)
- [Error and Status Codes \(p. 122\)](#)

Making Query Requests

For AWS Import/Export Disk, query requests are HTTPS requests that use the HTTP verb POST and a query parameter named *Action*.

Topics

- [Endpoints \(p. 98\)](#)
- [Structure of an AWS Import/Export Disk POST Request \(p. 98\)](#)
- [Query Authentication \(p. 100\)](#)

Endpoints

To send requests to AWS Import/Export Disk, use the service endpoint:

```
https://importexport.amazonaws.com
```

Note

AWS Import/Export does not support requests over HTTP; the service only supports HTTPS requests.

Structure of an AWS Import/Export Disk POST Request

This section outlines the AWS Import/Export Disk POST requests, which consist of the following:

- **Endpoint**—The AWS Import/Export entry point, as shown following:

```
https://importexport.amazonaws.com
```

- **Action**—The action you want to perform, for example getting the status of an existing job (GetStatus). For a complete list, see [Actions \(p. 101\)](#).
- **Parameters**—A set of parameters common to all AWS Import/Export actions, and any request parameters supported by the AWS Import/Export API. For details, see [Common Query Parameters \(p. 121\)](#).

Examples

Example AWS Import Export Disk POST Request

The following is an AWS Import/Export Disk sample POST request to get the status of a job.

```
POST / HTTP/1.1
content-type:application/x-www-form-urlencoded;charset=utf-8
host: https://importexport.amazonaws.com
content-length:207

Action=GetStatus&SignatureMethod=HmacSHA256&JobId=JOBID&SignatureVersion=2&Version=2014-12-18&Timestamp=2014-12-20T22%3A30%3A59.556Z
```

The body of the request is all on one line. However, line feeds have been added to make the examples easier to read.

```
POST / HTTP/1.1
content-type:application/x-www-form-urlencoded;charset=utf-8
host: https://importexport.amazonaws.com
content-length:207

Action=GetStatus
&JobId=JOBID

&SignatureMethod=HmacSHA256
&SignatureVersion=2
&Version=2014-12-18
&Signature=lBP67vCvG1DMBQ1dofZxg8E8SUEXAMPLE
&Timestamp=2014-12-20T22%3A30%3A59.556Z
```

The first line represents the type of http request.

Lines 2–4 contain the HTTP headers, including the endpoint of the request.

After the HTTP headers, the body of the request contains the list of parameters. Each parameter is separated from the next by an ampersand (&). The *Action* parameter indicates the action to perform. For a list of possible actions, see [Actions \(p. 101\)](#).

Example AWS Import Export Disk POST Response

The following is an AWS Import/Export Disk example response:

```
<CreateJobResponse xmlns="http://importexport.amazonaws.com/">
  <CreateJobResult>
    <JobId>TEST1</JobId>
    <SignatureFileContents>version:2.0
signingMethod:HmacSHA1
jobId:WXSP
signature: jLbLVp54vBa/vuh/XW1MOMdZUxw=
    </SignatureFileContents>
    <AwsShippingAddress>Please use the GetShippingLabel command to print
your pre-paid shipping label</AwsShippingAddress>
    <Signature>O3qG7xnI46ZEm9gi+eOy9dnSS9k=</Signature>
  </CreateJobResult>
  <ResponseMetadata>
    <RequestId>ace8cb5b-0ada-11df-a381-155bec6f7c93</RequestId>
  </ResponseMetadata>
</CreateJobResponse>
```

Query Authentication

You can send requests over HTTPS for AWS Import/Export Disk. When you do, you must include a signature in every request. This section describes how to create the signature. The method described in the following procedure is known as signature version 2.

Sample GetStatus Request

The following request gets the current status of an import job (modified to make the *Signature* inside the request invalid).

```
POST / HTTP/1.1
content-type:application/x-www-form-urlencoded;charset=utf-8
host: https://importexport.amazonaws.com
content-length:639

Action=GetStatus&SignatureMethod=HmacSHA256&JobId=JOBID&SignatureVersion=2&Version=2010-06-
%2FVfkltrBOoSUIlsWxRzN8rw%3D&Timestamp=2011-06-20T22%3A30%3A59.556Z
```

The following is the string to sign.

The body of the request is all on one line. However, line feeds have been added to make the examples easier to read.

```
POST\n
importexport.amazonaws.com\n
/>\n
&Action=GetStatus
&JobId=JOBID
&SignatureMethod=HmacSHA256
&SignatureVersion=2
Version=2010-06-01&
```

The following is the signed request.


```
POST\nimportexport.amazonaws.com\n/>\n&Action=GetStatus\n&JobId=JOBID\n&SignatureMethod=HmacSHA256\n&SignatureVersion=2\n&Version=2010-06-01\n&Signature=%2FVfkltrBOoSUI1sWxRzN8rw%3D\n&Timestamp=2011-06-20T22%3A30%3A59.556Z
```

Actions

This section describes the web service actions for AWS Import/Export Disk using the Query API request parameters.

Topics

- [CancelJob](#) (p. 102)
- [CreateJob](#) (p. 104)
- [GetStatus](#) (p. 107)
- [ListJobs](#) (p. 112)
- [UpdateJob](#) (p. 116)
- [GetShippingLabel](#) (p. 119)

Note

Disk does not support SOAP.

CancelJob

Description

This action cancels a specified job. Only the job owner can cancel it. The action fails if the job has already started or is complete.

Request Parameters

For information about the common parameters that all actions use, see [Common Query Parameters](#) (p. 121)

Name	Description	Required
Action	Specifies the action to invoke. Type: String Default: None Valid Values: <code>CancelJob</code>	Yes
JobId	Identifier returned by <code>CreateJob</code> that specifies the job you want to cancel. Type: String Default: None	Yes

Response Elements

Name	Description
CancelJobResponse	Container for the response. Type: None Ancestor: None Children: CancelJobResult (p. 102), ResponseMetadata (p. 102)
CancelJobResult	Container for the result. Type: None Ancestor: CancelJobResponse (p. 102) Children: Success (p. 103)
RequestId	Identifier that uniquely identifies the request. Type: String Ancestor: CancelJobResponse (p. 102). ResponseMetadata (p. 102) Children: None
ResponseMetadata	Container for the response metadata. Type: String

Name	Description
	Ancestor: CancelJobResponse Children: RequestId (p. 102)
Success	Specifies whether (<code>true</code>) or not (<code>false</code>) AWS Import/Export canceled the job. Type: Boolean Valid Values: <code>true</code> <code>false</code> Ancestor: CancelJobResponse (p. 102) . CancelJobResult (p. 102) Children: None

Errors

For a list of common errors, see [Error and Status Codes \(p. 122\)](#).

Examples

Sample Request

```
POST / HTTP/1.1
content-type:application/x-www-form-urlencoded;charset=utf-8
host: https://importexport.amazonaws.com
content-length:188

Action=CancelJob&SignatureMethod=HmacSHA256&JobId=JOBID&
&SignatureVersion=2&
Signature=%2FVfkltRBOoSUIsWxRzN8rw%3D&Timestamp=2011-06-20T23%3A53%3A37.232Z
```

Sample Response

```
<CancelJobResponse xmlns="http://importexport.amazonaws.com/">
  <CancelJobResult>
    <Success>true</Success>
  </CancelJobResult>
  <ResponseMetadata>
    <RequestId>a4f704fc-0ad8-11df-b085-4384d3e37ae5</RequestId>
  </ResponseMetadata>
</CancelJobResponse>
```

Related actions

The following actions are related to `CancelJob`.

- [CreateJob \(p. 104\)](#)

CreateJob

Description

This action initiates the process of scheduling an upload or download of your data. You include in the request a manifest that describes the data transfer specifics. The response to the request includes a job ID, which you can use in other actions, and a signature that you use to identify your storage device. To get your pre-paid shipping label use the [GetShippingLabel \(p. 119\)](#) command.

Request Parameters

For information about the common parameters that all actions use, see [Common Query Parameters \(p. 121\)](#)

Name	Description	Required
Action	Specifies the action to invoke. Type: String Default: None Valid Values: CreateJob	Yes
JobType	Specifies whether the job to initiate is an import or export job. Type: Enum Default: None Valid Values: Import Export	Yes
Manifest	The UTF-8 encoded text of a manifest file. For information about manifest parameters, see Manifest File Options Reference (p. 71) . Type: String Default: None	Yes
ValidateOnly	Validate the manifest and parameter values in the request, but do not actually create a job. Type: Boolean Default: false Valid Values: true false	No

Response Elements

Name	Description
CreateJobResponse	Container for the response. Type: None Ancestor: None Children: CreateJobResult (p. 105) , ResponseMetadata (p. 105)

Name	Description
CreateJobResult	<p>Container.</p> <p>Type: None</p> <p>Ancestor: CreateJobResponse</p> <p>Children: JobId (p. 105) Signature (p. 105)</p>
JobId	<p>The ID created by AWS that uniquely identifies your AWS Import/Export job.</p> <p>Type: String</p> <p>Ancestor: CreateJobResponse (p. 104).CreateJobResult (p. 105)</p>
JobType	<p>Specifies whether the job is an import or export job.</p> <p>Type: String</p> <p>Ancestor: GetStatusResponse.GetStatusResult</p> <p>Children: None</p>
RequestId	<p>ID that uniquely identifies the request.</p> <p>Type: String</p> <p>Ancestor: CreateJobResponse (p. 104).ResponseMetadata (p. 105)</p>
ResponseMetadata	<p>Container.</p> <p>Type: None</p> <p>Ancestor: CreateJobResponse</p> <p>Children: RequestId (p. 102)</p>
Signature	<p>An encrypted code used to authenticate the request and response, for example, DV+TpDfx1/TdSE9ktyK9k/bDTVI=. Only use this value if you want to create the signature file yourself.</p> <p>Type: String</p> <p>Ancestor: CreateJobResponse (p. 104).CreateJobResult (p. 105)</p>
SignatureFileContents	<p>The actual text of the SIGNATURE file to be written to disk, for example:</p> <pre style="border: 1px solid black; padding: 5px;">version:2.0 signingMethod:HmacSHA1 jobId:<the customer's job id> signature:DV+TpDfx1/TdSE9ktyK9k/bDTVI=</pre> <p>Type: String</p> <p>Ancestor: CreateJobResponse (p. 104).CreateJobResult (p. 105)</p>

Name	Description
WarningMessage	<p>An optional message notifying you of non-fatal issues with the job, such as use of an incompatible Amazon S3 bucket name.</p> <p>Type: String</p> <p>Ancestor: CreateJobResponse (p. 104).CreateJobResult (p. 105)</p>

Errors

For a list of common errors, see [Error and Status Codes](#) (p. 122).

Examples

Sample Request

```
POST / HTTP/1.1
content-type:application/x-www-form-urlencoded;charset=utf-8
host: https://importexport.amazonaws.com
content-length:639

Manifest=manifestVersion%3A%202.0%0Abucket%3A%20myawsbucket
%0AreturnAddress%3A%0A%20%20%20name%3A%20
Amazon.com%20ATTN%20Joe%20Random%20%0A%20%20%20street1%3A%201200%20AAAA
%20Ave%20
S.%0A%20%20%20city%3A%20Seattle%0A%20%20%20stateOrProvince%3A%20WA%0A
%20%20%20
postalCode%3A%2098114%0A%20%20%20phoneNumber%3A%20206-266-0000%0A
%20%20%20
country%3A%20USA&JobType=Import&Action=CreateJob&SignatureMethod=HmacSHA256
&SignatureVersion=2&Version=2010-06-01
&Signature=%2F5UvjcJOE1PqUa%2BcmnzadQYs2frTAt8LSo3M5o%2BEH0%3D&Timestamp=
2011-06-20T18%3A49%3A14.981Z
```

Sample Response

```
<CreateJobResponse xmlns="http://importexport.amazonaws.com/">
  <CreateJobResult>
    <JobId>TEST1</JobId>
    <Signature>O3qG7xnI46ZEm9gi+eOy9dnSS9k=</Signature>
  </CreateJobResult>
  <ResponseMetadata>
    <RequestId>ace8cb5b-0ada-11df-a381-155bec6f7c93</RequestId>
  </ResponseMetadata>
</CreateJobResponse>
```

Related actions

The following actions are related to `CreateJob`.

- [CancelJob](#) (p. 102)
- [GetShippingLabel](#) (p. 119)

GetStatus

Description

This action returns information about a job, including where the job is in the processing pipeline, the status of the results, and the signature value associated with the job. You can only return information about jobs you own.

Request Parameters

For information about the common parameters that all actions use, see [Common Query Parameters](#) (p. 121)

Name	Description	Required
Action	Specifies the action to invoke. Type: String Default: None Valid Values: GetStatus	Yes
JobId	Specifies the job to return information about. Type: String Default: Constraints: Must be a valid job ID for a job you own.	Yes

Response Elements

Name	Description
AwsShippingAddress	Reminder to use the GetShippingLabel action of the AWS Import/Export Web Service Tool to generate your pre-paid shipping label. Type: String Ancestor: GetStatusResponse (p. 108). GetStatusResult (p. 108)
Carrier	Name of the shipping company. This value is included when the <i>LocationCode</i> is Returned. Type: String Ancestor: GetStatusResponse (p. 108). GetStatusResult (p. 108) Children: None
CreationDate	Timestamp of the CreateJob request in ISO8601 date format. For example 2010-03-28T20:27:35Z. For more information, go to ISO 8601 . Type: String Ancestor: GetStatusResponse (p. 108). GetStatusResult (p. 108) Children: None

Name	Description
GetStatusResponse	<p>Container.</p> <p>Type: String</p> <p>Ancestor: None</p> <p>Children: GetStatusResult (p. 108)</p>
GetStatusResult	<p>Container.</p> <p>Type: String</p> <p>Ancestor: GetStatusResponse (p. 108)</p> <p>Children: Carrier (p. 107) CreationDate (p. 107) ErrorCount (p. 108) JobId (p. 105) JobType (p. 108) LocationCode (p. 108) LocationMessage (p. 109) LogBucket (p. 109) LogKey (p. 109) ProgressCode (p. 109) ProgressMessage (p. 109) Signature (p. 105) TrackingNumber (p. 110)</p>
ErrorCount	<p>Number of errors. We return this value when the <i>ProgressCode</i> is <i>Success</i> or <i>SuccessWithErrors</i>.</p> <p>Type: Integer</p> <p>Ancestor: GetStatusResponse (p. 108).GetStatusResult (p. 108)</p> <p>Children: None</p>
JobId	<p>Unique identifier created by AWS Import/Export that specifies a job you want the status of.</p> <p>Type: String</p> <p>Ancestor: GetStatusResponse (p. 108).GetStatusResult (p. 108)</p> <p>Children: None</p>
JobType	<p>Specifies whether the job is an import or export job.</p> <p>Type: String</p> <p>Ancestor: GetStatusResponse (p. 108).GetStatusResult (p. 108)</p> <p>Children: None</p>
LocationCode	<p>A token representing the location of the storage device, such as <code>AtAWS</code>. For more information, see Device Location Status Codes (p. 124).</p> <p>Type: Enum</p> <p>Valid Values: <code>AtAWS</code> <code>NotReceived</code> <code>Returned</code></p> <p>Ancestor: GetStatusResponse (p. 108).GetStatusResult (p. 108)</p> <p>Children: None</p>

Name	Description
LocationMessage	<p>A human readable message describing the physical location of the storage device.</p> <p>Type: String</p> <p>Ancestor: GetStatusResponse (p. 108).GetStatusResult (p. 108)</p> <p>Children: None</p>
LogBucket	<p>Amazon S3 bucket for user logs.</p> <p>Type: String (63 bytes)</p> <p>Ancestor: GetStatusResponse (p. 108).GetStatusResult (p. 108)</p> <p>Children: None</p>
LogKey	<p>The key where the user logs were stored.</p> <p>Type: String (1024 bytes)</p> <p>Ancestor: GetStatusResponse (p. 108).GetStatusResult (p. 108)</p> <p>Children: None</p>
ProgressCode	<p>A token representing the state of the job, such as <code>Started</code>. For more information, see Job Progress Status Codes (p. 124).</p> <p>Type: Enum</p> <p>Ancestor: GetStatusResponse (p. 108).GetStatusResult (p. 108)</p> <p>Children: None</p>
ProgressMessage	<p>A more human readable form of the job status.</p> <p>Type: String</p> <p>Ancestor: GetStatusResponse (p. 108).GetStatusResult (p. 108)</p> <p>Children: None</p>
RequestId	<p>A string that uniquely identifies the request.</p> <p>Type: String</p> <p>Ancestor: GetStatusResponse (p. 108)</p> <p>Children: None</p>
ResponseMetadata	<p>Container.</p> <p>Type: String</p> <p>Ancestor: GetStatusResponse (p. 108)</p> <p>Children: RequestId (p. 102)</p>

Name	Description
Signature	<p>An encrypted code used to authenticate the request and response, for example, DV+TpDfx1/TdSE9ktyK9k/bDTVI=. Only use this value if you want to create the signature yourself.</p> <p>Type: String</p> <p>Ancestor: GetStatusResponse (p. 108).GetStatusResult (p. 108)</p> <p>Children: None</p>
SignatureFileContents	<p>The actual text of the SIGNATURE file to be written to disk, for example:</p> <pre>version:2.0 signingMethod:HmacSHA1 jobId:<the customer's job ID> signature:DV+TpDfx1/TdSE9ktyK9k/bDTVI=</pre> <p>Type: String</p> <p>Ancestor: GetStatusResponse (p. 108).GetStatusResult (p. 108)</p>
TrackingNumber	<p>The shipping tracking number assigned by AWS Import/Export to the storage device when it's returned to you. We return this value when the <i>LocationCode</i> is Returned.</p> <p>Type: String (32 bytes)</p> <p>Ancestor: GetStatusResponse (p. 108).GetStatusResult (p. 108)</p> <p>Children: None</p>
WarningMessage	<p>An optional message notifying you of non-fatal issues with the job, such as use of an incompatible Amazon S3 bucket name.</p> <p>Type: String</p> <p>Ancestor: GetStatusResponse (p. 108).GetStatusResult (p. 108)</p>

Errors

For a list of common errors, see [Error and Status Codes \(p. 122\)](#).

Examples

Sample Request

```
POST / HTTP/1.1
content-type:application/x-www-form-urlencoded;charset=utf-8
host: https://importexport.amazonaws.com
content-length:207
```

```
Action=GetStatus&SignatureMethod=HmacSHA256&JobId=JOBID&SignatureVersion=2&Version=2010-06-
%2FVfkltrBOoSUIlsWxRzN8rw%3D&Timestamp=2011-06-20T22%3A30%3A59.556Z
```

Sample Response

```
<GetStatusResponse xmlns="http://importexport.amazonaws.com/">
  <GetStatusResult>
    <JobType>Import</JobType>
    <CurrentManifest>manifestVersion: 2.0
deviceId: TestDevice1
bucket: myawsbucket
returnAddress:
  name: Jane Roe
  company: Example Corp.
  street1: 123 Any Street
  city: Anytown
  stateOrProvince: WA
  postalCode: 91011-1111
  phoneNumber: 206-555-1111
  country: USA
eraseDevice: yes<
/CurrentManifest>
  <JobId>A36BC</JobId>
  <LocationMessage>AWS has not received your device.</LocationDescription>
  <ProgressCode>Pending</ProgressCode>
  <SignatureFileContents>version:2.0
signingMethod:HmacSHA1
jobId:A36BC
signature:O8WnNGMfs6cwbpQHvJ0qXLrUdqI=
</SignatureFileContents>
  <ErrorCount>0</ErrorCount>
  <ProgressMessage>The specified job has not started.</ProgressDescription>
  <LocationCode>NotReceived</LocationCode>
  <CreationDate>2010-04-17T00:09:02Z</CreationDate>
  <AwsShippingAddress>AWS Import/Export
JOBID A36BC
1111 Nosuch Ave South
Seattle, WA 92222</AwsShippingAddress>
  <Signature>O8WnNGMfs6cwbpQHvJ0qXLrUdqI=</Signature>
</GetStatusResult>
  <ResponseMetadata>
    <RequestId>a5f302fa-4bd8-11df-b17e-6b34e254a573</RequestId>
  </ResponseMetadata>
</GetStatusResponse>
```

Related actions

The following actions are related to `GetStatus`.

- `ListJobs`

ListJobs

Description

This action returns the jobs associated with the requester. AWS Import/Export lists the jobs in reverse chronological order based on the date of creation. For example, if job Test1 was created on 30 December 2009 and Test2 was created 05 February 2010, the `ListJobs` action would return Test2 followed by Test1.

Request Parameters

For information about the common parameters that all actions use, see [Common Query Parameters](#) (p. 121).

Name	Description	Required
Action	Specifies the action to invoke. Type: String Default: None Valid Value: ListJobs	Yes
Marker	Specifies the <i>JOBID</i> to start after when listing the jobs created with your account. See <i>MaxJobs</i> . Type: String Default: None Constraints: Must be a valid job ID	No
MaxJobs	Sets the maximum number of jobs returned in the response. If there are additional jobs that were not returned because <i>MaxJobs</i> was exceeded, the response contains <code><IsTruncated>true</IsTruncated></code> . To return the additional jobs, see <i>Marker</i> . Type: String Default: None Constraints: Must be between 0 and 1000	No

Response Elements

Name	Description
CreationDate	Timestamp of the <code>CreateJob</code> request in ISO8601 date format. For example, 2010-03-28T20:27:35Z. For more information, go to ISO 8601 . Type: String Ancestor: ListJobsResponse.ListJobsResult.Jobs.member
IsCanceled	Indicates whether the job was canceled. Type: String Valid Values: <code>true</code> <code>false</code>

Name	Description
	Ancestor: ListJobsResponse.ListJobsResult.Jobs.member
IsTruncated	Indicates whether the list of jobs was truncated. If <code>true</code> , call <code>ListJobs</code> again using the last <code>JobId</code> element as the marker. Type: String Valid Values: <code>true</code> <code>false</code> Ancestor: ListJobsResponse.ListJobsResult.Jobs.member
JobId	ID generated by AWS that uniquely identifies the AWS Import/Export job. Type: String Ancestor: ListJobsResponse.ListJobsResult.Jobs.member
Jobs	Container for all jobs. Type: None Ancestor: ListJobsResponse.ListJobsResult Children: member, IsTruncated
JobType	Specifies whether the job is an import or export job. Type: String Ancestor: ListJobsResponse.ListJobsResult.Jobs.member
ListJobsResponse	Container for the response. Type: None Ancestor: None Children: ListJobsResult, Response Metadata
ListJobsResult	Container for jobs. Type: None Ancestor: ListJobsResponse Children: Jobs
member	Container for job information. Type: None Ancestor: ListJobsResponse.ListJobsResult.Jobs Children: creationDate, JobId, IsCanceled
RequestId	ID generated by AWS that uniquely identifies the <code>ListJobs</code> request. Type: String Ancestor: ListJobsResponse.ListJobsResult.ResponseMetadata

Name	Description
ResponseMetadata	<p>Container for <i>RequestId</i>.</p> <p>Type: None</p> <p>Ancestor: ListJobsResponse.ListJobsResult</p> <p>Children: RequestId</p>

Errors

For a list of common errors, see [Error and Status Codes \(p. 122\)](#).

Examples

Sample Request

```
POST / HTTP/1.1
content-type:application/x-www-form-urlencoded;charset=utf-8
host: https://importexport.amazonaws.com
content-length:206

Action=ListJobs&MaxJobs=25&SignatureMethod=HmacSHA256
&SignatureVersion=2&Version=2010-06-01&Signature=%2FVfkltrBOoSUIlsWxRzN8rw
%3D
&Timestamp=2011-06-18T02%3A29%3A39.202Z
```

Sample Response

```
<ListJobsResponse xmlns="http://importexport.amazonaws.com/">
  <ListJobsResult>
    <Jobs>
      <member>
        <JobType>Import</JobType>
        <CreationDate>2010-04-21T22:21:51Z</CreationDate>
        <IsCanceled>>false</IsCanceled>
        <JobId>ADP7B</JobId>
      </member>
      <member>
        <JobType>Import</JobType>
        <CreationDate>2010-04-21T22:19:05Z</CreationDate>
        <IsCanceled>>false</IsCanceled>
        <JobId>AVEYF</JobId>
      </member>
    </Jobs>
    <IsTruncated>>true</IsTruncated>
  </ListJobsResult>
  <ResponseMetadata>
    <RequestId>cc6ea8c0-4da9-11df-81c3-e94d3ca214a8</RequestId>
  </ResponseMetadata>
</ListJobsResponse>
```

Related actions

The following actions are related to `ListJobs`.

- [GetStatus \(p. 107\)](#)

UpdateJob

Description

You use this action to change the parameters specified in the original manifest file by supplying a new manifest file. The manifest file attached to this request replaces the original manifest file. You can only use the action after a `CreateJob` request and before the data transfer starts, and you can only use it on jobs you own.

Request Parameters

For information about the common parameters that all actions use, see [Common Query Parameters \(p. 121\)](#)

Name	Description	Required
Action	Specifies the action to invoke. Type: String Default: None Valid Values: UpdateJob	Yes
JobId	Identifier that specifies the job you want to update. Type: String Default: None Constraints: Must be a valid job ID for a job you created.	Yes
JobType	Specifies import or export job. Type: String Default: None Valid Values: Import Export	Yes
Manifest	The UTF-8 encoded text of the manifest file. For more information, see Manifest File Parameters (p. 71) . Type: String Default: None	Yes

Response Elements

Name	Description
RequestId	ID that uniquely identifies the request. Type: String Ancestor: UpdateJobResponse (p. 117) . ResponseMetadata (p. 116) Children: None
ResponseMetadata	Container.

Name	Description
	Type: None Ancestor: UpdateJobResponse (p. 117) Children: RequestId (p. 102)
Success	Specifies whether (<code>true</code>) or not (<code>false</code>) AWS Import/Export updated your job. Type: Boolean Valid values: <code>true</code> <code>false</code> Ancestor: UpdateJobResponse (p. 117). UpdateJobResult (p. 117)
UpdateJobResponse	Container for the response. Type: None Ancestor: None Children: UpdateJobResult (p. 117), ResponseMetadata (p. 116)
UpdateJobResult	Container. Type: None Ancestor: UpdateJobResponse (p. 117) Children: Success (p. 103)
WarningMessage	An optional message notifying you of non-fatal issues with the job, such as use of an incompatible Amazon S3 bucket name. Type: String Ancestor: UpdateJobResponse (p. 117)

Errors

For a list of common errors, see [Error and Status Codes](#) (p. 122).

Examples

Sample Request

```
POST / HTTP/1.1
content-type:application/x-www-form-urlencoded;charset=utf-8
host: https://importexport.amazonaws.com
content-length:625

JobType=Import&Manifest=manifestVersion%3A%201.0%0Abucket%
3A%20XYZ%0AreturnAddress%3A%0A%20%20%20name
%3A%20Amazon.com%20ATTN%20Joe%20Random%20%0A%20%20%20street1%3A
%201200%11111%20Nosuch%20Ave
%20S.%0A%20%20%20city%3A%20Seattle%0A%20%20%20stateOrProvince%3A%20WA
%0A%20%20%20
```

```
postalCode%3A%2098114%0A%20%20%20%20phoneNumber%3A%20206-266-0000%0A%20%20%20country%3A%20USA%0AsetContentEncodingForGzFiles%3A%20yes%0Aexpires%3A%20tomorrow%0AcontentType%3A%20Spanish%0Aacl%3A%20public-read%0AcacheControl%3A%20max-age%3D3600&Action=UpdateJob&SignatureMethod=HmacSHA256&JobId=JOBID&SignatureVersion=2&Version=2010-06-01Signature=%2FVfkltrBOoSUIlsWxRzN8rw%3D&Timestamp=2011-06-21T00%3A28%3A12.023Z
```

Sample Response

```
<UpdateJobResponse xmlns="http://importexport.amazonaws.com/">
  <UpdateJobResult>
    <Success>true</Success>
  </UpdateJobResult>
  <ResponseMetadata>
    <RequestId>12144cd2-0adb-11df-a381-155bec6f7c93</RequestId>
  </ResponseMetadata>
</UpdateJobResponse>
```

Related actions

The following actions are related to UpdateJob.

- [CreateJob \(p. 104\)](#)

GetShippingLabel

Description

This action generates a pre-paid shipping label that you will use to ship your device to AWS for processing.

Request Parameters

For information about the common parameters that all actions use, see [Common Query Parameters \(p. 121\)](#)

Name	Description	Required
Action	Specifies the action to invoke. Type: String Default: None Valid Values: GetShippingLabel	Yes
JobIDs	Specifies the jobs that will be shipped in the same package. No more than 8 jobs can be specified in one GetShippingLabel action. Type: Comma separated strings Default: None Valid Values: Valid Job IDs	Yes
name	The name of the person sending the package. Type: String Default: None	Yes
company	The name of the company sending the package. Type: String Default: None	Yes
phoneNumber	A valid contact phone number. Type: String Default: None	Yes
stateOrProvince	The name of the state or province the package is being shipped from. Required for USA and Canada. Type: String Default: None	Yes
city	The name of the city being shipped from. Type: String Default: None	Yes

Name	Description	Required
postalCode	The postal code from where the package is being shipped. Type: String Default: None	Yes
street1	The street address from where the package is being shipped. Type: String Default: None	Yes
street2	A continuation of the street address from where the package is being shipped. Type: String Default: None	No
street3	A continuation of the street address from where the package is being shipped from. Type: String Default: None	No

Response Elements

Name	Description
ShippingLabelURL	The URL of your preprinted label. The URL returned will reference a PDF file that you should download, print, and attach to the package you will use to ship your devices in. Type: String

Errors

For a list of common errors, see [Error and Status Codes \(p. 122\)](#).

Examples

Sample Request

```
POST / HTTP/1.1
content-type:application/x-www-form-urlencoded;charset=utf-8
host: https://importexport.amazonaws.com
content-length:639

JobIDs=ABC12%2CBCD23%2CCDE34&name=Joe%20User&company=MyCo
%20Incorporated&phoneNumber=
%28123%29%20456%2D7890&country=USA&stateOrProvince=WA&city=Seattle&postalCode=98123&street1
%20St%2E&street2=Suite
%20101&Action=GetShippingLabel&SignatureMethod=HmacSHA256
&SignatureVersion=2&Version=2010-06-01
&Signature=%2F5UvjCJOE1PqUa%2BcmnzadQYs2frTAt8LS03M5o%2BEH0%3D&Timestamp=
```

2011-06-20T18%3A49%3A14.981Z

Sample Response

```
<GetShippingLabelResponse xmlns="http://importexport.amazonaws.com/">
  <GetShippingLabelResult>
    <ShippingLabelURL>https://s3.amazonaws.com/logbucket/shipping-
label.ABC12.BCD23.CDE34.pdf</ShippingLabelURL>
    <Signature>O3qG7xnI46ZEm9gi+eOy9dnSS9k=</Signature>
  </GetShippingLabelResult>
  <ResponseMetadata>
    <RequestId>ace8cb5b-0ada-11df-a381-155bec6f7c93</RequestId>
  </ResponseMetadata>
</GetShippingLabelResponse>
```

Related actions

The following actions are related to `GetShippingLabel`.

- [CreateJob](#) (p. 104)

Common Query Parameters

This section lists the requests parameters that all AWS Import/Export Disk actions use. Any action-specific parameters are listed in the topic for the action.

Name	Description	Required
Action	The action to perform. For a complete list, see Actions (p. 101). Type: String Default: None Valid Values: CancelJob CreateJob GetStatus ListJobs UpdateJob	Yes
AWSAccessKeyId	The <code>accessKeyId</code> option is deprecated. It is retained only for backward compatibility. Do not use <code>accessKeyId</code> with new AWS Import/Export jobs.	No
Signature	The digital signature you created for the request. For more information see Query Authentication (p. 100). Default: None Type: String	Yes
SignatureMethod	The hash algorithm you used to create the request signature. Default: None Type: String Valid Values: HmacSHA256 HmacSHA1	Yes
SignatureVersion	The signature version you use to sign the request. Set this value to 2 or 3.	Yes

Name	Description	Required
	Default: None Types: String Valid Value: 2 3	
Timestamp	The date and time the request was signed, in the format YYYY-MM-DDThh:mm:ss.SSSZ, as specified in the ISO 8601 Standard. Default: None Type: String	Yes
Version	The API version to use, in the format YYYY-MM-DD. Default:None Type: String	Yes

Error and Status Codes

This section describes all AWS Import/Export Disk errors, job, and device status codes, and also status codes you might find in log files.

Topics

- [Error Response \(p. 122\)](#)
- [Error Codes \(p. 122\)](#)
- [Job and Device Status Codes \(p. 123\)](#)
- [Disk Log Status Codes \(p. 125\)](#)

Error Response

The following is the format of an error response when using the Web Service operations.

```
<ErrorResponse xmlns="http://importexport.amazonaws.com/">
  <Error>
    <Type>Sender</Type>
    <Code>ExceptionCode</Code>
    <Message>ExceptionMessage</Message>
  </Error>
  <RequestId>alf5a4c6-0adb-11df-a381-155bec6f7c93</RequestId>
</ErrorResponse>
```

Error Codes

There are a number of errors that can occur when using the web service operations. The following table describes those error codes.

Code	Description	HTTP Code
BucketPermissionException	The account specified does not have the appropriate bucket permissions.	400

Code	Description	HTTP Code
CanceledJobIdException	The specified job ID has been canceled and is no longer valid.	400
ExpiredJobIdException	The specified job ID has expired.	400
InvalidAddressException	The address specified in the manifest is invalid.	400
InvalidClientTokenIdException	The AWS access key does not exist.	403
InvalidCustomsException	One or more customs parameters was invalid. Please correct and resubmit.	400
InvalidFileSystemException	File system specified in export manifest is invalid.	400
InvalidJobIdException	The <i>JOBID</i> was missing, not found, or not associated with the AWS account.	400
InvalidManifestFieldException	One or more manifest fields was invalid. Please correct and resubmit.	400
InvalidParameterException	Description describing invalid parameter.	400
MalformedManifestException	Your manifest is not well-formed.	400
MissingCustomsException	One or more required customs parameters was missing from the manifest.	400
MissingManifestFieldException	One or more required fields were missing from the manifest file. Please correct and resubmit.	400
MissingParameterException	One or more required parameters was missing from the request.	400
MultipleRegionsException	Your manifest file contained buckets from multiple regions. A job is restricted to buckets from one region. Please correct and resubmit.	400
NoSuchBucketException	The specified bucket does not exist. Create the specified bucket or change the manifest's <i>bucket</i> , <i>exportBucket</i> , or <i>logBucket</i> field to a bucket that the account, as specified by the credentials file, has write permissions to.	400
OptInRequired	The AWS account needs a subscription to the AWS Import/Export service.	403
UnableToCancelJobIdException	Disk cannot cancel the job.	409
UnknownOperationException	The specified operation was invalid.	403

Job and Device Status Codes

Topics

- [Device Location Status Codes \(p. 124\)](#)
- [Job Progress Status Codes \(p. 124\)](#)

Each Disk job has both a device location status and job progress status. The device location status provides details regarding the location of the storage device you mailed to AWS. The job progress code reflects the status of the data transfer. Some examples are as follows: when your storage device arrives its status is `Pending`; when we are transferring the data the status is `InProgress`; and when the data transfer completes successfully the status is `Success`.

Device Location Status Codes

The following table describes device location status codes.

Code	Description
AtAWS	Your device is at AWS.
NotReceived	AWS has not received your device.
Returned	Your device has been returned. The <i>SHIPPER</i> tracking number is <i>TRACKING_NUMBER</i> .

Job Progress Status Codes

The following table describes job progress status codes.

Code	Description
Canceled	The job was canceled.
Complete	The data loaded successfully. The log was saved to <i>LOG_KEY</i> in the bucket <i>LOG_BUCKET</i> .
DeviceError	The job was aborted. Your device would not function properly.
Expired	The job expired.
InProgress	The data on your device is currently being loaded.
InvalidSignature	The job was aborted. The SIGNATURE file was invalid.
MissingDevice	The job was aborted. Your device, power supply, or device connectors were missing.
MissingSignature	The job was aborted. The SIGNATURE file was missing.
Pending	The specified job has not started.
SuccessWithErrors	The data load completed with <i>NUMBER</i> of errors. See <i>LOG_KEY</i> in the bucket <i>LOG_BUCKET</i> . for more details.
UnsupportedDeviceType	The job was aborted. Disk requires a USB2 or eSATA connector type, or a 2.5" or 3.5" SATA hard drive.
UnsupportedFileFormat	The job was aborted. For supported file types, see For more information, see Guidelines and Limitations (p. 125) .
UnsupportedPowerSupply	The job was aborted. AWS Import/Export on US East (N. Virginia) buckets requires a 120 volt 60Hz, compatible power supply. EU buckets require a 230 volt, 50 Hertz compatible power supply that uses a Euro plug (C connector or D connector) or UK plug (BS1363). Singapore buckets require 230 volts, 50 Hertz compatible power supply.

Disk Log Status Codes

The following table describes Disk status codes.

Code	Status	Description
AccessDenied	403 Forbidden	Access Denied. Your IAM account does not have read permission on the object.
DiskFull	499	The disk is full. Files can no longer be written to this disk.
DirectoryFull	301 Remapped	The current directory is full. Files can no longer be written to this location. Your file was saved to the recovery directory.
FilenameTooLong	301 Remapped	The requested bucket + prefix + key path exceeded the max file name length of the target file system.
FileTooLarge	413 Request Entity Too Large	The requested object was larger than the max file size of the target file system.
Ignored	103	File passed the manifest ignored filter.
InvalidFilename	301 Remapped	The requested key name is invalid on the target file system. Your file was saved to the recovery directory.
InvalidSubstitution	400	The specified <i>substitutions</i> manifest option resulted in an invalid object name.
MovedPermanently	301 Remapped	The object was moved to a different location due to a naming conflict. The change was recorded in the log.
OK	200	Success.
ReadError	508 Device Error	Unable to read the specified file from disk.
UnableToWrite	508 Device Error	Unable to write data to your storage device.

Guidelines and Limitations

The following section provides guidelines and describes limitations when using the AWS Import/Export service. If any of these limitations are important to your use case, contact [AWS Support Center](#) with details.

- AWS Import/Export does not support Server-Side Encryption (SSE) when importing data.
- To connect your storage device to one of our AWS Import/Export stations, your device must meet the following requirements:
 - The device must be compatible with Red Hat Linux and warranted by the manufacturer to support eSATA, USB 3.0, or USB 2.0 interface on Linux.
 - Maximum device size is 14 inches/35 centimeters high by 19 inches/48 centimeters wide by 36 inches/91 centimeters deep (8Us in a standard 19 inch/48 centimeter rack).
 - Maximum weight is 50 pounds/22.5 kilograms.
 - Maximum file size of a single file or object to be imported is 5 TB. Files and objects larger than 5 TB won't be imported. The over-sized files will be listed in your import job log file.

- Maximum device capacity is 16 TB for Amazon Simple Storage Service (Amazon S3) and Amazon EBS jobs.
- Maximum device capacity is 4 TB for Amazon Glacier jobs.
- Power requirements vary by region. For more information, go to the [Selecting Your Storage Device](#) section on the [AWS Import/Export Product Details](#) page.
- You can create up to 50 jobs per day. If you need to create more than 50 jobs, contact your account manager or [AWS Support Center](#).
- Ship only one device per package. AWS Import/Export will accept multiple devices in a single shipment only for specific devices, with special packaging requirements. For details, see [Shipping Multiple Devices \(p. 65\)](#).
- AWS Import/Export service does not ship to PO Boxes.
- Expedited shipping is available only for return shipments from U.S. data loading facilities to U.S. addresses.
- AWS Import/Export exports only the latest version from an Amazon S3 bucket that has versioning turned on.
- Amazon DevPay buckets and accounts are not supported. You must use your AWS account credentials and non-DevPay buckets when using AWS Import/Export.
- Devices must be healthy. Providing an unhealthy device, such as a device with bad sectors or unstable power, may result in a partial import or export. In extreme cases the import or export will be impossible to perform, and AWS Import/Export might destroy the device. For more information, see [Failed Jobs \(p. 70\)](#).
- Amazon S3 import jobs support the following file systems:
 - NTFS
 - EXT2
 - EXT3
 - EXT4
 - FAT32
 - HFSPlus
 - exFAT
- Import to Amazon S3 job file names must be written using UTF-8 character encoding. Any file with a name that is not a valid UTF-8 string is not imported.
- You can only perform a Amazon Glacier import from devices of 4 TB in size or smaller. If you need to import more than 4 TB into Amazon Glacier, consider using an Amazon S3 import and archiving your objects to Amazon Glacier with an Amazon S3 lifecycle policy.
- Amazon S3 export jobs support the following file systems:
 - NTFS
 - EXT4
- With an Amazon S3 export, some objects might be re-mapped during export to different filenames due to file system limitations. Some of the reasons for remapping filenames include:
 - The source Amazon S3 object has a non UTF-8 key name.
 - The Amazon S3 source has two or more object key names that point to the same file name (for instance, `folder1/file1` and `folder1/folder2/./file1`)
 - Too many files exist under one directory.

You can find out whether files were remapped for your job by examining the export log uploaded to your log bucket.

- If your import job fails, your device will be erased and returned to you. If your export job fails, your device will be returned to you. For more information, see [Failed Jobs \(p. 70\)](#).

AWS Import/Export Disk Feature Appendices

This AWS Import/Export guide appendix include the following sections.

Topics

- [Appendix A: Other Tools and Services](#) (p. 127)
- [Appendix B: Examples](#) (p. 127)
- [Appendix C: File Extension to MIME Types](#) (p. 134)
- [Appendix D: Disk Resources](#) (p. 135)

Appendix A: Other Tools and Services

In addition to the AWS Import/Export Web Service Tool and the AWS SDK, there are a number of third party tools and services available to work with AWS Import/Export. For more information, go to <http://aws.amazon.com/importexport/tools/>.

Appendix B: Examples

Topics

- [Import Examples](#) (p. 127)
- [Export Examples](#) (p. 131)

Import Examples

This section walks you through creating three sample Disk jobs and shows the manifest file's corresponding signature and log files. In these examples, the following files are at the root directory of the storage device. The resulting log files illustrate how manifest fields affect the data load.

Note

These examples do not apply to Amazon Glacier. Amazon Glacier imports the entire contents of a device to a single archive.

- /README
- /NOTICE.txt
- /images/wookie1.jpg
- /images/chewie.gif
- /images/chewie.tif
- /images/resources/chewie.psd

The following sections show different ways to create Disk jobs.

Example – TSTD1

The TSTD1 example demonstrates the default behavior using a manifest file with the minimum configuration options. The example files associated with job TSTD1 are:

- `manifest-TSTD1.txt`
- `import-log-TSTD1.csv`

The following is the contents of manifest-TSTD1.txt file.

```
manifestVersion: 2.0
bucket: myawsbucket
deviceId: 3QD0T87T
pinCode:4321
eraseDevice: Yes
notificationEmail: john.doe@example.com;jane.roe@example.com
returnAddress:
  name: Jane Roe
  company: Example Corp.
  street1: 123 Any Street
  city: Anytown
  stateOrProvince: WA
  postalCode: 91011-1111
  phoneNumber: 206-555-1111
  country: USA
```

Important

Your return address must be a physical street address that UPS can deliver to.

TSTD1 Log File

After Disk processes this job, the service saves the resulting log file to <http://s3.amazonaws.com/myawsbucket/import-log-TSTD1>. The contents of the log file are shown in the following table.

Date/Time	File	Status	Code	Key	MD5	Bytes	Content-Type
Tue 03 Feb 2009 21:57:43 GMT	SIGNATURE	103	Ignored			90	text/plain
Tue 03 Feb 2009 21:57:43 GMT	Notice.txt	200	OK	myawsbucket/Notice.txt	f60fe317bc497b120413270942591b64	4321	text/plain
Tue 03 Feb 2009 21:57:43 GMT	README.txt	200	OK	myawsbucket/README.txt	d5a46fa22596d24646f10ba11920e	4321	text/plain
Tue 03 Feb 2009 21:57:43 GMT	images/wookie1.jpg	200	OK	myawsbucket/images/wookie1.jpg	ccac0d031603ff1c29477096f1845	947	image/jpeg
Tue 03 Feb 2009 21:57:43 GMT	images/chewie.GIF	200	OK	myawsbucket/images/chewie.GIF	5fc22dc594e0c5929609b955ba9f70	609	image/gif
Tue 03 Feb 2009 21:57:43 GMT	images/resources/chewie.psd	200	OK	myawsbucket/images/resources/chewie.psd	130b64d171e9bbc2a82b17118970c	2824	application/octet-stream

DateTin	File	Status	Code	Key	MD5	Bytes	Content-Type
Tue 03 Feb 2009 21:57:43 GMT	images/chewie.TIF	200	OK	myawsbucket/images/chewie.TIF	823d17b05321b9686089174e8b1fe7	1488	image/tif

Example – TSTD2

The TSTD2 example demonstrates the behavior associated with adding the following manifest fields: *acl*, *prefix*, and *logPrefix*, to the manifest file used in TSTD1. The example files associated with job TSTD2 are:

- manifest-TSTD2.txt
- import-log-TSTD2.csv

The following text shows the contents of manifest-TSTD2.txt.

```
manifestVersion: 2.0
bucket: myawsbucket
deviceId: eQD0T87T
pinCode:4321
eraseDevice: Yes
notificationEmail: john.doe@example.com;jane.doe@example.com
returnAddress:
  name: Jane Roe
  company: Example Corp.
  street1: 123 Any Street
  city: Anytown
  stateOrProvince: WA
  postalCode: 91011-1111
  phoneNumber: 206-555-1111
  country: USA
acl: public-read
prefix: images/
logPrefix: loadlogs-
```

TSTD2 Log File

After Disk processes this job, the service saves the resulting log file to <http://s3.amazonaws.com/myawsbucket/import-log-TSTD2>. The contents of the log file are shown in the following table.

DateTime	File	Status	Code	Key	MD5	Bytes	Content-Type
Tue 03 Feb 2009 21:57:43 GMT	SIGNATURE	103	Ignored			90	
Tue 03 Feb 2009 21:57:43 GMT	Notice.txt	200	OK	myawsbucket/images/Notice.txt	f60fe317bc497b12004b32709459eb64	270	text/plain

DateTime	File	Status	Code	Key	MD5	Bytes	Content-Type
Tue 03 Feb 2009 21:57:43 GMT	README.txt	200	OK	myawsbucket/images/README.txt	d5a46fa22596d246410b2d1119000e	434	text/html
Tue 03 Feb 2009 21:57:43 GMT	images/wookie1.jpg	200	OK	myawsbucket/images/images/wookie1.jpg	ccac0d031603ff1694e0770a64845	404	image/jpeg
Tue 03 Feb 2009 21:57:43 GMT	images/chewie.GIF	200	OK	myawsbucket/images/images/chewie.GIF	5f22dc594e0c59292c90a95851a9e70	292	image/gif
Tue 03 Feb 2009 21:57:43 GMT	images/resources/chewie.psd	200	OK	myawsbucket/images/images/resources-chewie.psd	130b64d171e9bb528dbea1711a0796c	528	application/octet-stream
Tue 03 Feb 2009 21:57:43 GMT	images/chewie.TIF	200	OK	myawsbucket/images/images/chewie.TIF	823d17b05321b978401f9174e21cace7	978	image/tiff

Example – TSTD3

The TSTD3 example load demonstrates the behavior of the following manifest fields: *acl*, *contentTypes*, *prefix*, and *ignore*. The example files associated with job TSTD3 are:

- manifest-TSTD3.txt
- import-log-TSTD3.csv

The following text shows the contents of manifest-TSTD3.txt file.

```
manifestVersion: 2.0
bucket: myawsbucket
deviceId: 3QD0T87T
pinCode: 4321
eraseDevice: Yes
notificationEmail: john.doe@example.com;jane.doe@example.com
returnAddress:
  name: Jane Roe
  company: Example Corp.
  street1: 123 Any Street
  city: Anytown
  stateOrProvince: WA
  postalCode: 91011-1111
  phoneNumber: 206-555-1111
  country: USA
acl: public-read
prefix: dropoff
contentTypes:
  jpg: application/octet-stream
  gif: application/octet-stream
  tif: application/octet-stream
  txt: text/html
ignore:
```

- \.psd\$

TSTD3 Log File

After Disk processes this job, the service saves the resulting log file to `http://s3.amazonaws.com/myawsbucket/import-log-TSTD3`. The contents of the log file are shown in the following table.

DateTime	File	Status	Code	Key	MD5	Bytes	Content-Type
Tue 03 Feb 2009 21:57:43 GMT	SIGNATURE	103	Ignored			90	
Tue 03 Feb 2009 21:57:43 GMT	Notice.txt	200	OK	myawsbucket/dropoffNotice.txt	386317bc497b120270944e59/b64	10270944e59/b64	text/plain
Tue 03 Feb 2009 21:57:43 GMT	README.txt	200	OK	myawsbucket/dropoffREADME.txt	4686fa22596d2461e0balt1900e	4686fa22596d2461e0balt1900e	text/plain
Tue 03 Feb 2009 21:57:43 GMT	images/wookie1.jpg	200	OK	myawsbucket/dropoffimages/wookie1.jpg	586d031603ff1c2449703a648f1	586d031603ff1c2449703a648f1	application/octet-stream
Tue 03 Feb 2009 21:57:43 GMT	images/chewie.GIF	200	OK	myawsbucket/dropoffimages/chewie.GIF	89022dc594e0c56490b585a6e/70	89022dc594e0c56490b585a6e/70	image/gif
Tue 03 Feb 2009 21:57:43 GMT	images/resources/chewie.psd	108	Ignored			590	
Tue 03 Feb 2009 21:57:43 GMT	images/chewie.TIF	200	OK	myawsbucket/dropoffimages/chewie.TIF	8237897-21b96870474e87dageff	8237897-21b96870474e87dageff	image/tiff

Note

The `contentType` field is case sensitive, so `chewie.TIF` and `chewie.GIF` were not picked up by the `gif` or `tif` `contentType` filter. The `prefix` field, `dropoff`, did not have a trailing forward slash, (`/`), so the key name did not have a delimiter between `dropoff` and the loaded file path.

Export Examples

Topics

- [Export Files \(p. 131\)](#)
- [Example – TSTDA \(p. 132\)](#)
- [Example – TSTDB \(p. 133\)](#)

This section walks through example AWS Import/Export jobs and shows the manifest file's corresponding `SIGNATURE` and log files.

Export Files

The following keys are referenced as part of each export job.

- /myawsbucket/README
- /myawsbucket /NOTICE.txt
- /myawsbucket /images/wookie1.jpg
- /myawsbucket /images/chewie.gif
- /myawsbucket /images/chewie.tif
- /myawsbucket /images/resources/chewie.psd
- /myawsbucket//backup/images/chewie.gif
- /lostbucket/bin/lost.rhtml
- /lostbucket/html/directory.html
- /lostbucket/images/hurley.jpg
- /lostbucket/images/john.jpg
- /lostbucket/images/kate.jpg
- /lostbucket/images/sawyer.jpg
- /lostbucket/index.html

Example – TSTDA

The TSTDA example upload demonstrates the default behavior using a manifest file with the minimum configuration options. The example files associated with job TSTDA are:

- manifest-TSTDA.txt
- export-log-TSTDA.csv

The following is the contents of manifest-TSTDA.txt file.

```
manifestVersion: 1.2

deviceId: 532404500021
logBucket: myawsbucket
fileSystem: FAT32
operations:
  - exportBucket: myawsbucket
returnAddress:
  name: Jane Roe
  company: Example Corp.
  street1: 123 Any Street
  city: Anytown
  stateOrProvince: WA
  postalCode: 91011-1111
  phoneNumber: 206-555-1111
  country: USA
```

TSTDA Log File

After Disk processes this job, the service saves the resulting log file to <http://s3.amazonaws.com/myawsbucket/export-log-TSTDA>. The contents of the log file are shown in the following table.

DateTime	File	Status	Code	Key	MD5	Bytes	Content-Type
Tue 03 Feb 2009 21:57:43 GMT	myawsbucket/README.txt	200	OK	myawsbucket/README.txt	d5a46fa22596d24634eff10bd0119000e	4634	text/plain

DateTime	File	Status	Code	Key	MD5	Bytes	Content-Type
Tue 03 Feb 2009 21:57:43 GMT	myawsbucket/NOTICE.txt	200	OK	myawsbucket/NOTICE.txt	f60fe317bc497b1204b326094959eb64	200	text/plain
Tue 03 Feb 2009 21:57:43 GMT	myawsbucket/images/wookie1.jpg	200	OK	myawsbucket/images/wookie1.jpg	ccac0d031603ff1e294e0730a64845	149	image/jpeg
Tue 03 Feb 2009 21:57:43 GMT	myawsbucket/images/chewie.gif	200	OK	myawsbucket/images/chewie.gif	5fc22dc594e0c592460909585ba9e70	246	image/gif
Tue 03 Feb 2009 21:57:43 GMT	myawsbucket/images/resources/chewie.psd	200	OK	myawsbucket/images/resources/chewie.psd	130b64d171e9bb5248db117c1a0796c	524	application/octet-stream
Tue 03 Feb 2009 21:57:43 GMT	EXPORT-RECOVERY/0000/0000	302	Remapped	myawsbucket//backup/images/chewie.gif	823d17b05321b97801f9174e21cace7	978	image/gif

Example – TSTDB

The TSTDB example upload demonstrates the default behavior using a manifest file with the following configuration options: multiple buckets, *targetDirectory*, *prefix*, *beginMarker*, and *endMarker*. The example files associated with job TSTDB are:

- manifest-TSTDB.txt
- export-log-TSTDB.csv

The following is the contents of manifest-TSTDB.txt file.

```
manifestVersion: 2.0
deviceId: 532404500021
logBucket: myawsbucket
logPrefix: logs/
fileSystem: NTFS
operations:
  - exportBucket: myawsbucket
    prefix: images
    targetDirectory: starwars/image-backup
  - exportBucket: lostbucket
    beginMarker: html/
    endMarker: images/kate.jpg
returnAddress:
  name: Jane Roe
  company: Example Corp.
  street1: 123 Any Street
  city: Anytown
  stateOrProvince: WA
  postalCode: 91011-1111
  phoneNumber: 206-555-1111
  country: USA
```

TSTDB Log File

After Disk processes this job, the service saves the resulting log file to <http://s3.amazonaws.com/myawsbucket/export-log-TSTDB>. The contents of the log file are shown in the following table.

DateTime	File	Status	Code	Key	MD5	Bytes	Content-Type
Tue 03 Feb 2009 21:57:43 GMT	starwars/image-backup/images/wookie1.jpg	200	OK	myawsbucket / images/wookie1.jpg	d5a46fa22596d24610ba11900e	4510	image/jpeg
Tue 03 Feb 2009 21:57:43 GMT	starwars/image-backup/images/chewie.gif	200	OK	myawsbucket/ images/chewie.gif	f60fe317bc497b12047094959c0f4	204709	image/gif
Tue 03 Feb 2009 21:57:43 GMT	starwars/image-backup/images/chewie.tif	200	OK	myawsbucket/ images/chewie.tif	ccac0d031603ff1e457708a6e84f5	4457708	image/tif
Tue 03 Feb 2009 21:57:43 GMT	starwars/image-backup/images/resources/chewie.psd	200	OK	myawsbucket/ images/resources/chewie.psd	5fc22dc594e0c5924c90b9585ba9e70	246590	application/octet-stream
Tue 03 Feb 2009 21:57:43 GMT	lostbucket/html/directory.html	200	OK	lostbucket/html/directory.html	130b64d171e9bb524e175118979c	624e175	text/html
Tue 03 Feb 2009 21:57:43 GMT	lostbucket/images/hurley.jpg	200	OK	lostbucket/ images/hurley.jpg	823d17b05321b9685917e85ba9e70	685917	image/jpeg
Tue 03 Feb 2009 21:57:43 GMT	lostbucket/images/john.jpg	200	OK	lostbucket/ images/john.jpg	823d17b05321b9685917e85ba9e70	685917	image/jpeg
Tue 03 Feb 2009 21:57:43 GMT	lostbucket/images/kate.jpg	200	OK	lostbucket/ images/kate.jpg	5fc22dc594e0c5924c90b9585ba9e70	246590	image/jpeg

Appendix C: File Extension to MIME Types

AWS Import/Export uses MIME types as defined by the Internet Assigned Numbers Authorities (IANA). To determine MIME type, AWS Import/Export does a case-insensitive lookup against the MIME type table on the IANA website. To see that table, go to <http://www.iana.org/assignments/media-types>.

Unrecognized file types use the Amazon S3 default Content-Type of `application/octet-stream`.

Appendix D: Disk Resources

The following table lists related resources that you'll find useful as you work with this service.

Resource	Description
API Reference (p. 97)	Explains the API operations.
FAQ	Presents frequently asked questions and answers about AWS Import/Export.
Amazon S3 Discussion Forum	A community-based forum for developers to discuss technical questions related to Amazon S3 and Disk.
AWS Support Center	The home page for AWS Technical Support, including access to our Developer Forums, Technical FAQs, Service Status page, and Premium Support.
Contact Us	A central contact point for inquiries concerning AWS billing, account, events, abuse etc.
Legal	Detailed information about the terms of use, privacy policy and other topics.

Document History

The following table describes the important changes to the documentation since the last release of AWS Import/Export.

- **API version:** 2014-12-18
- **Latest document update:** January 29, 2015

Change	Description	Date Changed
AWS Import/Export Disk API version update	The current AWS Import/Export Disk API version is 2014-12-18.	January 29, 2015
Pre-paid UPS shipping label	Amazon Import/Export now uses UPS as the worldwide carrier for all incoming Import/Export job requests. You must use UPS as your carrier to send packages to AWS, and you must use the pre-paid shipping label generated by the AWS Import/Export Web Service Tool. You will not have to pay UPS for the shipping charges, because AWS will add these charges to the fee charged for processing your device. For more information, see Shipping Your Storage Device (p. 58) .	January 16, 2015
Support for PIN-coded devices	AWS Import/Export supports hardware-based device encryption on storage devices that use a physical PIN pad for access to the data. For more information, see Encrypting Your Data (p. 61) .	August 11, 2014
File system support for export	EXT2, EXT3, exFAT, and FAT32 are no longer supported for export from Amazon S3. For more information, see Guidelines and Limitations (p. 125) .	May 6, 2014
AWS IAM Support	AWS Import/Export integrates with AWS Identity and Access Management (IAM), which allows you to control which operations a user can perform. For more information, see Using IAM with AWS Import/Export Disk (p. 25) .	February 17, 2014
Device erasure and TrueCrypt encryption	AWS Import/Export will erase all devices following import to Amazon S3, Amazon EBS, and Amazon Glacier. AWS will encrypt all devices using TrueCrypt prior to	January 31, 2014

Change	Description	Date Changed
	<p>performing an export to Amazon S3. See Encrypting Your Data (p. 61).</p> <p>The <code>notificationEmail</code> field is required for job types.</p> <p>Added information about failed jobs. For more information, see Failed Jobs (p. 70).</p>	
exFAT file system support for import	The exFAT file system is supported for import jobs. For more information, see Guidelines and Limitations (p. 125) .	July 24, 2013
GLACIER Storage Class	If you want the lower cost storage provided by Amazon Glacier, but you want your individual files to be stored as separate objects, first import your files to Amazon S3, then use Amazon S3 Object Lifecycle Management to transition your files to the GLACIER Storage Class. For more information, see Creating Amazon Glacier Import Jobs (p. 33)	July 24, 2013
Device encryption	Added support for encrypting devices using TrueCrypt for Amazon S3 import and export. See Encrypting Your Data (p. 61) .	May 22, 2013
Shipping multiple devices	Added instructions for shipping multiple devices in the same package. See Shipping Multiple Devices (p. 65) .	January 1, 2013
Added regions for import to EBS	AWS Import/Export has expanded support for importing data to Amazon Elastic Block Store (Amazon EBS) to include the EU (Ireland) and Asia Pacific (Singapore) regions.	December 31, 2012
Reformat summary of Import/Export types	The summary of Import/Export types has been reformatted to improve readability on Kindle devices.	August 20, 2012
Add summary of Import/Export types	The AWS Import/Export Concepts section includes a table summarizing the source, target, and results for each of the AWS Import/Export job types.	August 20, 2012
	For more information, see Jobs Overview (p. 2) .	
Add support for Amazon Glacier	AWS Import/Export now supports importing data to Amazon Glacier vaults.	August 20, 2012
	For more information, see Create Your First Amazon Glacier Import Job (p. 16) .	
Consolidate guides.	The <i>AWS Import/Export API Reference</i> is now part of the AWS Import/Export Developer Guide.	July 7, 2011
API version correction.	The correct, current API version is 2010-06-03.	July 7, 2011
New instructions for locating your Amazon EBS Snapshot.	After a successful upload of data to an Amazon EBS Snapshot, you can find the data in the AWS Management Console for Amazon EC2. See Your Amazon EBS Snapshot in the AWS Management Console (p. 33) .	July 7, 2011

Change	Description	Date Changed
New Getting Started instructions for importing data to Amazon Elastic Block Store (Amazon EBS)	AWS Import/Export now supports importing data to Amazon EBS snapshots. Amazon EBS snapshots can be converted into volumes for use with Amazon Elastic Compute Cloud (EC2). For more information, see Create Your First Amazon EBS Import Job (p. 12) .	July 7, 2011
New instructions for preparing an import job to Amazon EBS	An import job to Amazon EBS follows a different process than an import job to Amazon S3. For more information, see Creating Amazon EBS Import Jobs (p. 30) .	July 7, 2011
New manifest file options for an import job to Amazon EBS	An import job to Amazon EBS has its own unique manifest file options. For more information, see Import to Amazon EBS Manifest File Options (p. 86) .	July 7, 2011
New import manifest options for adding metadata	AWS Import/Export has new manifest options for users to better manage their data loads into Amazon S3. For import jobs, you can assign user defined metadata to all objects and a metadata value to store the last modified time stamp for each imported file. See the <i>diskTimestampMetadataKey</i> and <i>staticMetadata</i> options in Import to Amazon S3 Manifest File Options (p. 79) .	March 22, 2011
A new common manifest option for modifying object keys and file names	Modify uploaded object keys and downloaded filenames with the <i>substitutions</i> option. This option allows you to specify rules for naming the keys when importing data to Amazon S3, and filenames when exporting data to your device. See the <i>substitutions</i> option in Common Manifest File Options (p. 71)	March 22, 2011
AWS Import/Export US West (N. California) region support	AWS Import/Export now supports importing and exporting data into and out of Amazon S3 buckets in the US West (N. California) region.	February 1, 2011
AWS Import/Export Asia Pacific (Singapore) region support	AWS Import/Export now supports importing and exporting data into and out of Amazon S3 buckets in the Asia Pacific (Singapore) region.	December 28, 2010
Support for large objects	AWS Import/Export now supports importing and exporting objects up to 5 TB in size.	December 9, 2010
AWS Import/Export becomes a web service	AWS Import/Export is now a web service. In previous versions of this product, you used email to create and manage jobs. Those email commands and procedures are being deprecated and will stop working on December 31, 2010. This guide no longer contains those commands.	June 9, 2010

Change	Description	Date Changed
AWS Import/Export command line interface	In addition to the new web service API, AWS Import/Export now has a command line interface. For more information, go to AWS Import/Export Command Line Quick Reference Card .	June 9, 2010
New support for internal SATA and 4 TB device capacity limit	AWS Import/Export now supports internal SATA hard drives for data loads in the Amazon S3 standard and EU (Ireland) regions. Additionally, you can now send portable storage devices with capacities up to 4 TB, reducing the number of devices required for large data loads.	March 5, 2010
International support for AWS Import/Export	Now, you can send and receive storage devices to and from most international locations for loading data to and from US East (N. Virginia) region buckets. For more information, see Shipping Your Storage Device (p. 58) .	December 9, 2009
Support for EU (Ireland) buckets	Now, you can import and export data to and from EU (Ireland) buckets. For more information, see Mailing Your Storage Device (p. 66) .	December 9, 2009