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## Amazon S3 Glacier

Amazon Simple Storage Service Glacier, that is Amazon S3 Glacier (Glacier), is a storage service optimized for infrequently used data, or "cold data."

Glacier is an extremely low-cost storage service that provides durable storage with security features for data archiving and backup. With Glacier, customers can store their data cost effectively for months, years, or even decades. Glacier enables customers to offload the administrative burdens of operating and scaling storage to AWS, so they don't have to worry about capacity planning, hardware provisioning, data replication, hardware failure detection and recovery, or time-consuming hardware migrations.

### Getting Started with Amazon S3 Glacier

In Amazon S3 Glacier (Glacier), a vault is a container for storing archives, and an archive is any object, such as a photo, video, or document that you store in a vault. An archive is the base unit of storage in Glacier.

In the getting started exercise, you will create a vault, upload and download an archive, and finally delete the archive and the vault. You can do all these operations programmatically. However, the getting started exercise uses the Glacier management console to create and delete a vault.

#### Important

Glacier provides a management console. You can use the console to create and delete vaults as shown in this getting started exercise. However, all other interactions with Glacier require that you use the AWS Command Line Interface (CLI), Fast Glacier Tool or write code. For example, to upload data, such as photos, videos, and other documents, you must either use the AWS CLI or write code to make requests, using either the REST API directly or by using the AWS SDKs.

### Create a Vault in Amazon S3 Glacier

A vault is a container for storing archives. Your first step is to create a vault in one of the supported AWS regions. In this getting started exercise, you create a vault in the US West (Oregon) region. For a list of the AWS regions supported by Amazon S3 Glacier (Glacier), go to [Regions and Endpoints](#) in the *AWS General Reference*.

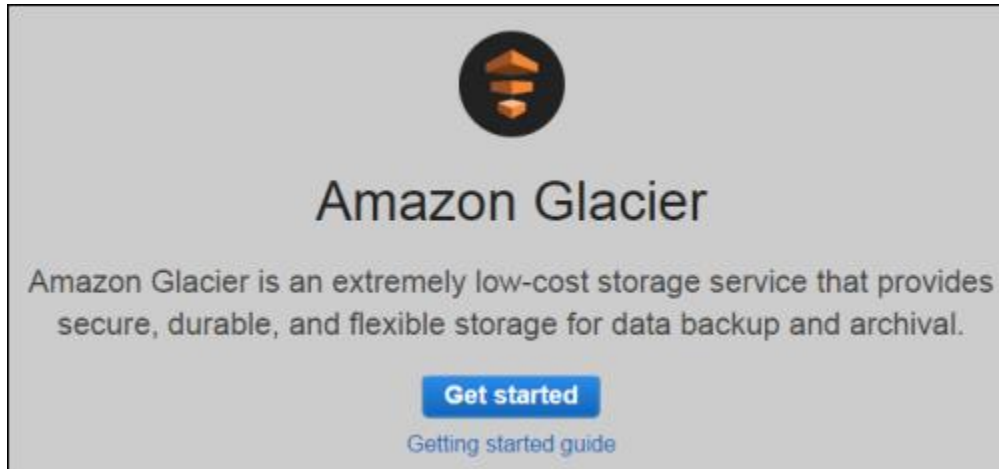
You can create vaults programmatically or by using the Glacier console. This section uses the console to create a vault. In a later step, you will upload an archive to the vault.

#### To create a vault

1. Sign into the AWS Management Console and open the Glacier console at <https://console.aws.amazon.com/glacier/>.
2. Select a region from the region selector.

In this getting started exercise, we use the US West (Oregon) region.

3. If you are using Glacier for the first time, click **Get started**. (Otherwise, you would click **Create Vault**.)



4. Enter `examplevault` as the vault name in the **Vault Name** field and then click **Next Step**.

There are guidelines for naming a vault. For more information, see [Creating a Vault in Amazon S3 Glacier](#).

A screenshot of the 'Welcome to Amazon Glacier' screen. The title 'Welcome to Amazon Glacier' is at the top. Below it, there is a paragraph of text: 'Data is stored in Amazon Glacier in "archives." An archive can be any data such as a photo, video, or document. You can upload a single file as an archive or aggregate multiple files into a TAR or ZIP file and upload as one archive.' Another paragraph follows: 'A single archive can be as large as 40 terabytes. You can store an unlimited number of archives and an unlimited amount of data in Amazon Glacier. Each archive is assigned a unique archive ID at the time of creation, and the content of the archive is immutable, meaning that after an archive is created it cannot be updated.' A third paragraph states: 'Vaults allow you to organize your archives and set access policies and notification policies. Get started by giving your vault a name. You can then create your vault now or click **Next Step** to set up your vault's properties.' Below the text, there are two input fields. The first is labeled 'Region\*' and contains the text 'us-west-2'. To its right is a small blue information icon. The second is labeled 'Vault Name\*' and contains the text 'examplevault'. At the bottom right of the form, there are two buttons: a blue 'Cancel' button and a blue 'Next Step' button.

5. Select **Do not enable notifications**. For this getting started exercise, you will not configure notifications for the vault.



If you wanted to have notifications sent to you or your application whenever certain Glacier jobs complete, you would select **Enable notifications and create a new SNS topic** or **Enable notifications and use an existing SNS topic** to set up Amazon Simple Notification Service (Amazon SNS) notifications. In subsequent steps, you upload an archive and then download it using the high-level API of the AWS SDK. Using the high-level API does not require that you configure vault notification to retrieve your data.

### Set Event Notifications

You can choose to have notifications sent to you or your application whenever certain Amazon Glacier jobs complete. Notifications are sent using the Amazon Simple Notifications Service (SNS). To use Amazon SNS, you first need to specify a topic that applications or people can subscribe to. You can then select specific jobs that, on completion, will trigger the notifications. Notifications can be delivered over the protocol of your choice (HTTP, email, etc.).

☒ **Do not enable notifications**  
 You can enable, set up, and change your notification settings later.

☐ **Enable notifications and create a new SNS topic**  
 Enable notifications and create a new Amazon SNS topic to send the notifications.

☐ **Enable notifications and use an existing SNS topic**  
 Enable notifications and enter an existing SNS topic to send the notifications.

[Cancel](#)
[Previous](#)
[Next Step](#)

6. If the region and vault name are correct, then click **Submit**.

### Review

Make sure the following information is correct before you choose **Submit**. To go back and make changes, choose **Previous**.

**Region** us-west-2  
**Vault Name** examplevault

[Cancel](#)
[Previous](#)
[Submit](#)

7. Your new vault is listed on the **Glacier Vaults** page.

Amazon Glacier Vaults

Create Vault


Delete Vault

Settings

Refresh

Help

Filter By Name:

Name 	Inventory Last Updated	Size (as of last inventory)	# of Archives (as of last inventory)
examplevault	Not updated yet	--	--

## Options for Uploading an Archive to Amazon S3 Glacier

Depending on the size of the data you are uploading, Glacier offers the following options:

- Upload archives in a single operation – In a single operation, you can upload archives from 1 byte to up to 4 GB in size. However, we encourage Glacier customers to use multipart upload to upload archives greater than 100 MB.
- Upload archives in parts – Using the multipart upload API, you can upload large archives, up to about 40,000 GB (10,000 \* 4 GB).

The multipart upload API call is designed to improve the upload experience for larger archives. You can upload archives in parts. These parts can be uploaded independently, in any order, and in parallel. If a part upload fails, you only need to upload that part again and not the entire archive. You can use multipart upload for archives from 1 byte to about 40,000 GB in size.

### Important:

The Glacier vault inventory is only updated once a day. When you upload an archive, you will not immediately see the new archive added to your vault (in the console or in your downloaded vault inventory list) until the vault inventory has been updated.

### Upload an Archive to a Vault in Amazon S3 Glacier using AWS CLI

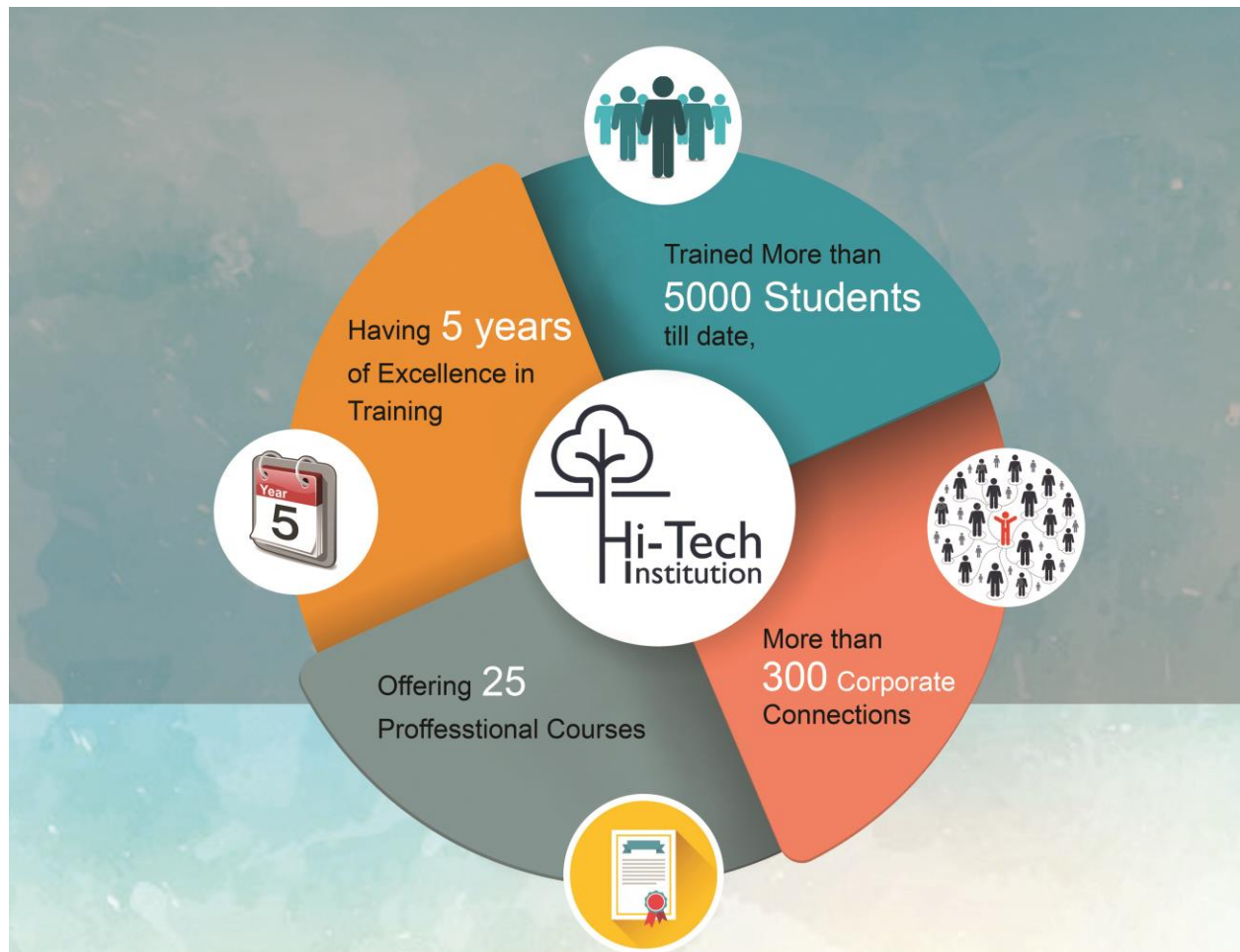
Any archive operation, such as upload, download, or deletion, requires that you use the AWS Command Line Interface (CLI) or write code. There is no console support for archive operations. For example, to upload data, such as photos, videos, and other documents, you must either use the AWS CLI or write code to make requests, using either the REST API directly or by using the AWS SDKs.

The following command uploads an archive in the current folder named `archive.zip` to a vault named `my-vault`:

```
aws glacier upload-archive --account-id - --vault-name my-vault --body
archive.zip
```

### Output:

```
{
  "archiveId": "kKB7ymWJVpPSwhGP6ycSOAekp9ZYe_--zM_mw6k76ZFGEIWQX-
ybtRDvc2VkPSDtfKmQrj0IRQLSGsNuDp-
AJVlu2ccmDSyDUMZwKbwbpAdGATGDiB3hHO0bjbGehXTcApVud_wyDw",
  "checksum":
"969fb39823836d81f0cc028195fcdbcbbe76cdde932d4646fa7de5f21e18aa67",
  "location": "/0123456789012/vaults/my-
vault/archives/kKB7ymWJVpPSwhGP6ycSOAekp9ZYe_--zM_mw6k76ZFGEIWQX-
ybtRDvc2VkPSDtfKmQrj0IRQLSGsNuDp-
AJVlu2ccmDSyDUMZwKbwbpAdGATGDiB3hHO0bjbGehXTcApVud_wyDw" }
```



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