

AWS Glacier Documentation

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Purpose:

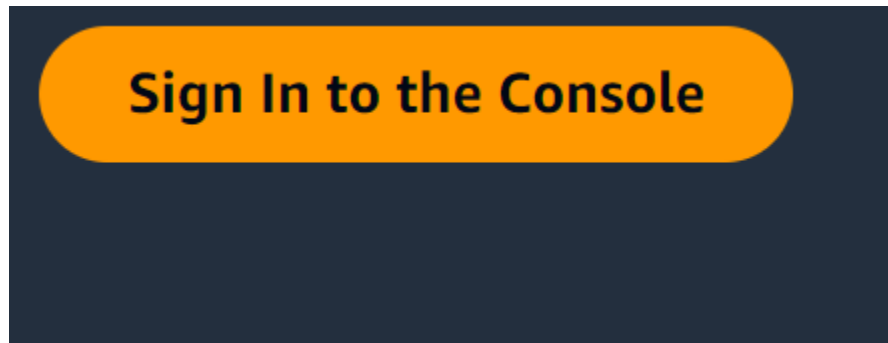
AWS S3 Glacier is a cost effective method of storing data for archival purposes. It will fill the clients needs to archive any data they wish to upload.

Prerequisites:

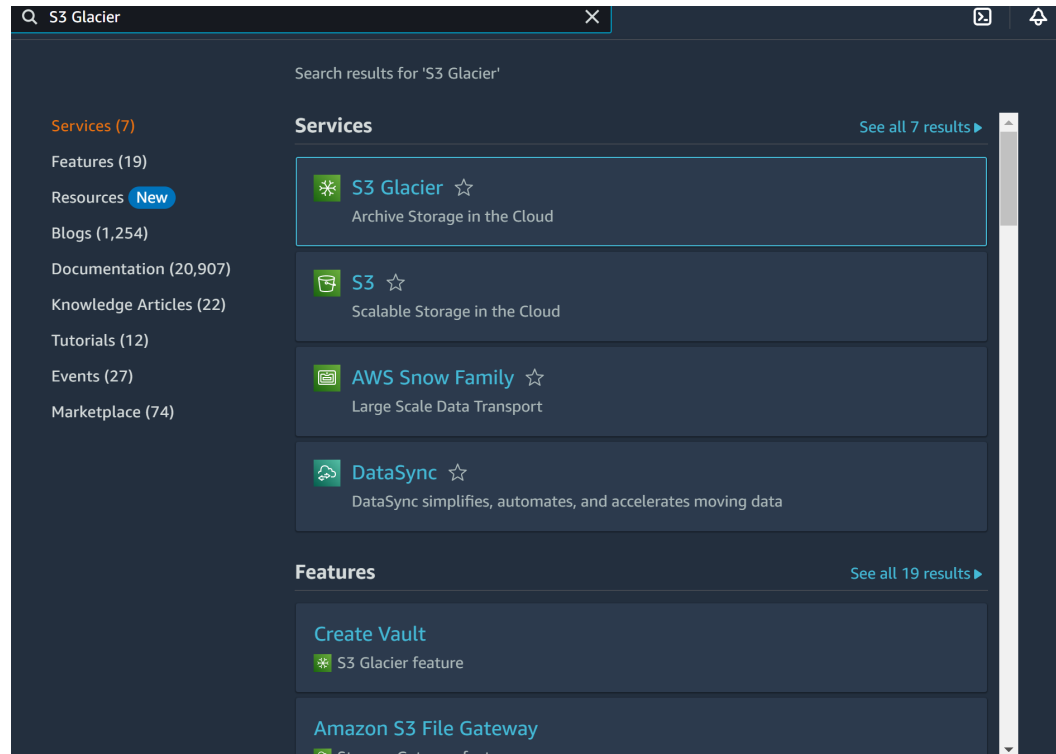
- **Make an AWS account**
- **Install AWS CLI. For the documentation for the setup, enter this link in your browser and follow the steps provided on the PDF:**
<https://github.com/Matrix-Cyber-Solutions/Documentation/blob/main/AWS%20CLI%20Documentation%20Windows.pdf>

How to use AWS S3 Glacier to upload data

- 1.) Go to the web browser. Type in aws.amazon.com
- 2.) Login to your account here:



- 3.) In the search bar for aws, type in "S3 Glacier". It will be the top result. Select this service:



- 4.) Your vault list will be empty. First, select the region that is closest to you in the top right corner to the left of your account name:



- 5.) Now, create a vault by clicking on the create “vault button”
- 6.) Create the name of the vault. For demonstration purposes, we will call this vault “testvault2”. Remember that vault names must be unique to the region, otherwise the vault name will not be available:

Create vault [Info](#)

Vaults allow you to organize your archives with access policies and notification configurations.

Vault name

AWS Region
The AWS Region that your vault will be located in. Use the AWS Region drop-down menu to create vaults in other AWS Regions.
US West (Oregon) us-west-2

Vault name
testvault2

The vault name can be up to 255 characters, and must be unique within the account and the AWS Region. Allowed characters are a-z, A-Z, 0-9, '_' (underscore), '-' (hyphen), and '.' (period).

- 7.) Once the vault is created, make sure you have AWS CLI installed. (SEE prerequisites at top of this document).
- 8.) Use this link to find the commands necessary for uploading/retrieving data for glacier:
<https://docs.aws.amazon.com/cli/latest/reference/glacier/index.html>
Click on the "upload-archive" link.
- 9.) Here is the command to upload data from your computer to your vault:

```
aws glacier upload-archive --account-id - --vault-name my-vault --body archive.zip
```
- 10.) In powershell, navigate to the folder or path that includes the data you want to archive. Type "ls" and hit enter to list the files in the folder.
- 11.) There are a couple things we want to change in the script in section 9. Change the vault name to the vault you created on AWS, and change the file to the filename and its extension: `aws glacier upload-archive --account-id - --vault-name testvault --body yup.txt`
- 12.) This should be the resulting output:

```
PS C:\Users\clark\test1> aws glacier upload-archive --account-id - --vault-name testvault --body yup.txt
{
  "location": "/169535830182/vaults/testvault/archives/qAuhE6UHp9H-hf0UBS6TS0leLkrNjAnWXf6UPNgkszYKFYfpLMHhIR4FaMtR66jDJFoEnccbjCiRstHUhIiY5qw4FhObHbU8kRutQKzwoo0q58csPLCHQKW1cDD38bvFq9WkfHdD_A",
  "checksum": "b11fcda58b73fc24f926460af525c10c87dabf743ab659e97a958a83b643fd72",
  "archiveId": "qAuhE6UHp9H-hf0UBS6TS0leLkrNjAnWXf6UPNgkszYKFYfpLMHhIR4FaMtR66jDJFoEnccbjCiRstHUhIiY5qw4FhObHbU8kRutQKzwoo0q58csPLCHQKW1cDD38bvFq9WkfHdD_A"
}
```

You will want to copy and paste "archiveId" into a text file as we will need it to retrieve the archived file later

- 13.) Now, go back to the CLI command reference and click on the "initiate-job" link
- 14.) Scroll down and you will see an example for retrieving the file you archived: `aws glacier initiate-job --account-id - --vault-name my-vault --job-parameters file://job-archive-retrieval.json`
- 15.) Change the vault name to the vault you created. Follow this format:

```
aws glacier initiate-job --account-id - --vault-name testvault --job-parameters '{"Type": "archive-retrieval", "ArchiveId": "TU3wU3S57kCtTSr-JOjstEoZWsrAwncqkq_iUlx2JEPmQRE0mrpxHc_MoN9el29MIQ5DOCJ7jFk9LXIWtbI7aD4F_O9nJXWY69Lt_I8YmiLXB4XUjmsGgqsLkcPY2IdETXzyr95Pg", "Description": "yup"}'
```

16.) You will see above the back slashes. This is used to append the quotations used.

17.) Run the command, and you will see output similar to this:

```
{
  "location": "/169535830182/vaults/testvault/jobs/B0-A3xIteIkoJ0qC9GI-6V3-gH10w00gqz8gJ2TWcTc-WVJ0swz6BiX3IAoWLnmdp9xIQL3mk-6LK4C0j7aox6VJkVv7",
  "jobId": "B0-A3xIteIkoJ0qC9GI-6V3-gH10w00gqz8gJ2TWcTc-WVJ0swz6BiX3IAoWLnmdp9xIQL3mk-6LK4C0j7aox6VJkVv7"
}
```

18.) You will receive an email from AWS with the email you used to create your AWS account