

AWS S3 Glacier Practical

To understand how Amazon S3 Glacier works for storing and managing data, and to practice creating a vault using three methods:

1. AWS Management Console
2. Third-party app (FastGlacier)
3. AWS Command Line Interface (CLI)

What is AWS S3 Glacier?

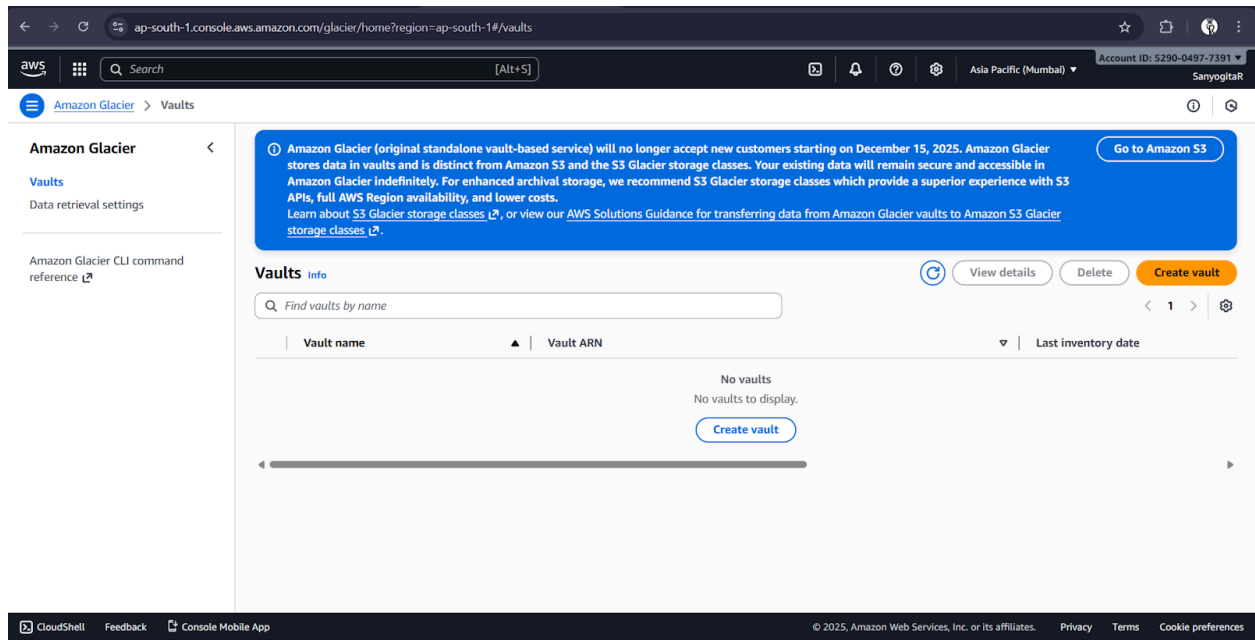
Amazon S3 Glacier is a **secure, low-cost storage service** from AWS used mainly for **data archiving and long-term backup**.

It's not like normal cloud storage — it's meant for **rarely accessed data** that you still want to keep safe.

Part 1 — Creating a Vault in AWS Console

Step-by-Step Explanation:

1. **Login to AWS Management Console** using your AWS account.




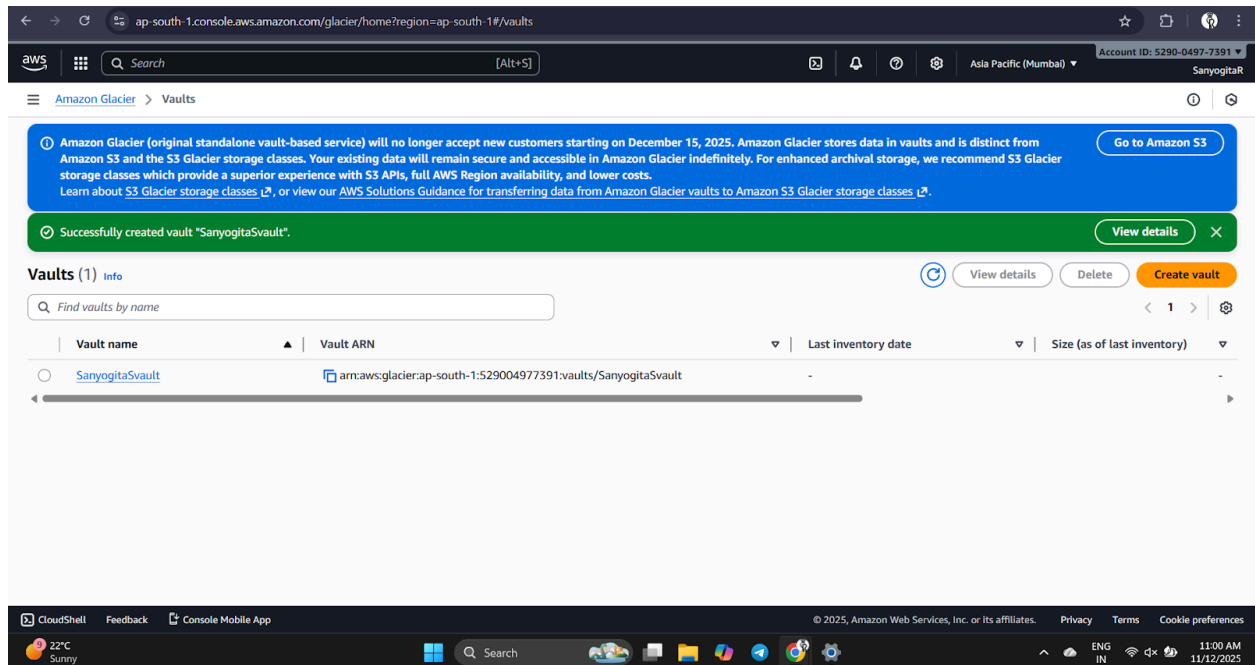
2. From the services menu, search and open **Amazon S3 Glacier** (sometimes listed under “Storage”).
3. Click **Create Vault**.
4. Choose:
 - A **region** (for example, **ap-south-1** for Mumbai)
 - A **vault name** (e.g., **my-first-vault**)
5. Click **Create Vault** to confirm.

The screenshot shows the AWS Management Console interface for creating a new vault in Amazon Glacier. The browser address bar indicates the URL is `ap-south-1.console.aws.amazon.com/glacier/home?region=ap-south-1#/vaults/create`. The page title is "Create vault" with an "Info" link. Below the title, a message states: "Vaults allow you to organize your archives with access policies and notification configurations." The form is divided into two main sections. The first section, "Vault name", includes a sub-section "AWS Region" with the text "The AWS Region that your vault will be located in. Use the AWS Region drop-down menu to create vaults in other AWS Regions." and a dropdown menu currently showing "Asia Pacific (Mumbai) ap-south-1". Below this is a text input field for the "Vault name" containing the text "SanyogitaVault". A note below the input field states: "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)." The second section, "Event notifications", has an "Info" link and a sub-section "Set event notifications". It contains two radio button options: "Turn off notifications" (which is selected) with the description "No notifications will be sent when events happen.", and "Turn on notifications" with the description "Enable notifications by using an SNS topic." At the bottom right of the form are two buttons: "Cancel" and "Create vault". The footer of the console shows "CloudShell", "Feedback", "Console Mobile App", and copyright information for Amazon Web Services, Inc. or its affiliates, along with links for "Privacy", "Terms", and "Cookie preferences".

Now AWS will create your vault and show details like:

- Vault Name
- Vault ARN (Amazon Resource Name)
- Creation Date and Region

 **Note:** You can only delete a vault when it's completely empty (no files inside).



Part 2 — Connecting via FastGlacier (Third-Party App)

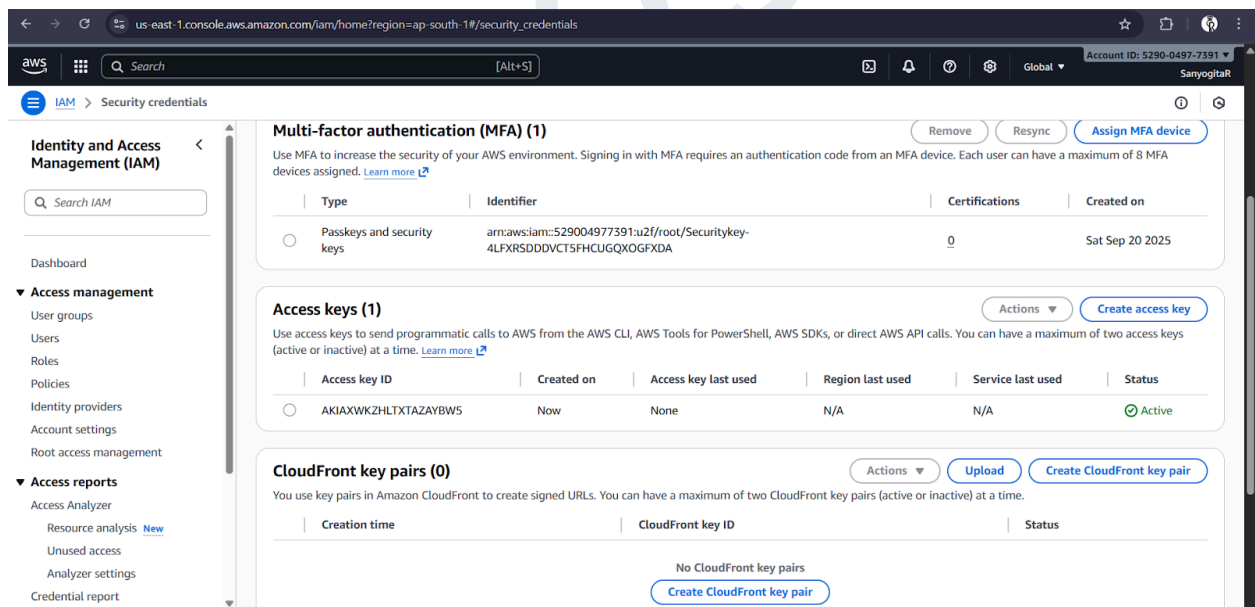
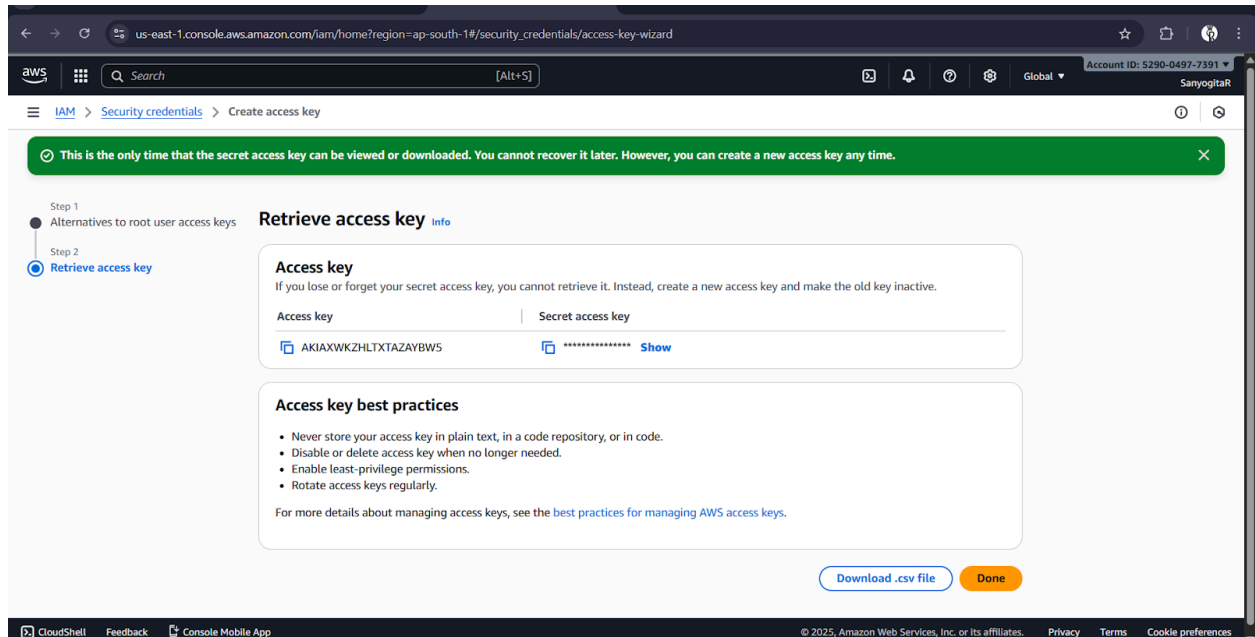
What is FastGlacier?

FastGlacier is a Windows application that helps you manage Amazon Glacier vaults easily — like a file manager for Glacier.

Steps I Followed:

1. Opened the **AWS Management Console** → went to **IAM (Identity and Access Management)**.
2. Clicked **Add User** and created a new IAM user named **fastglacier-user**.
3. Gave **Programmatic Access** so I could get an **Access Key ID** and **Secret Access Key**.

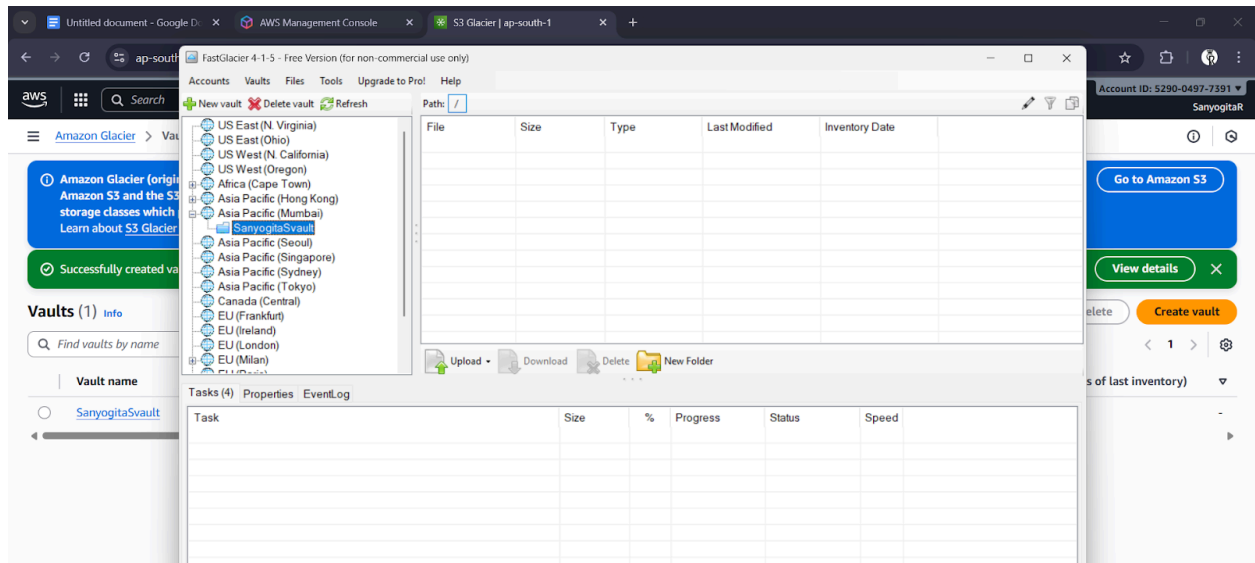
4. Attached a policy like **AmazonGlacierFullAccess** (for testing).
5. Copied the Access Key ID and Secret Key (⚠ never share or upload these keys).



Then, in **FastGlacier**:

1. Opened the app and clicked **Add New Account**.

2. Entered the Access Key ID, Secret Key, and selected the correct AWS region.
3. Connected successfully — it showed the vaults from my AWS account.



4. Uploaded a small test file to the vault to check the connection.
5. Deleted the file later to avoid storage costs.

⚠ Security Tip:

- Logging out of FastGlacier does **not** remove AWS access.
- You must **delete or deactivate the IAM access key** from the AWS Console to fully disconnect it.
- After the experiment, go to **IAM → Users → Security Credentials → Access Keys → Delete**.

1. **Opened Command Prompt** on my system.

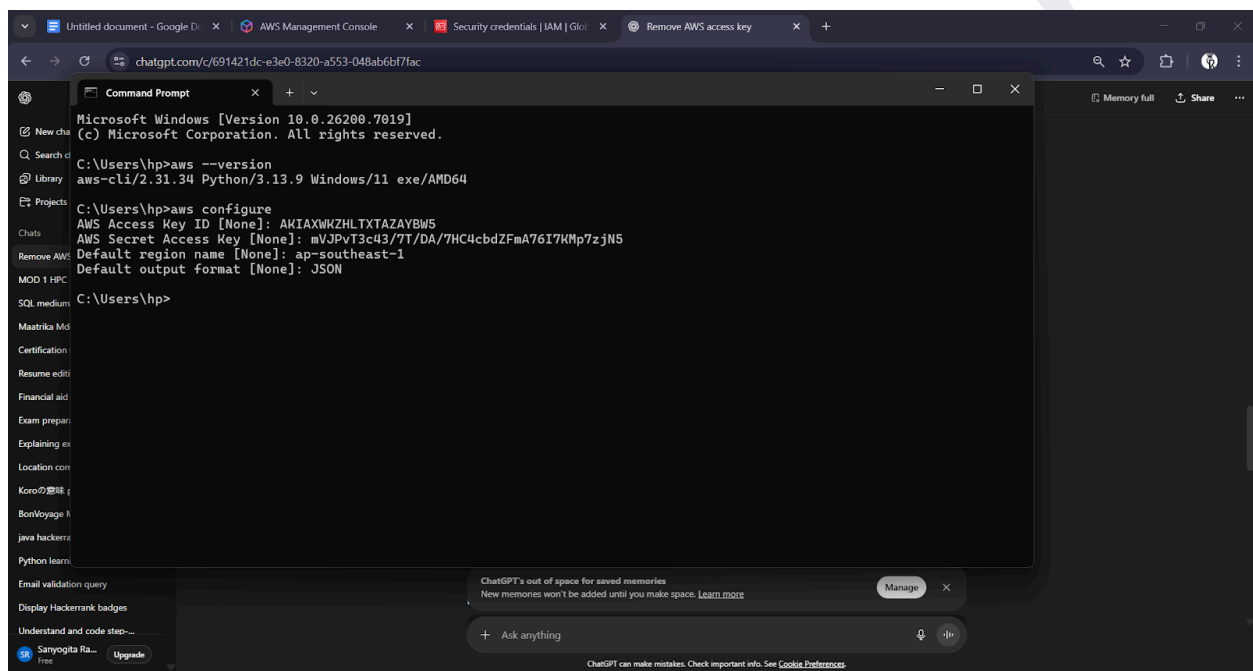
Checked that AWS CLI was installed:

```
aws --version
```

- 2.

Configured my AWS credentials:

```
aws configure
```



3. Then entered:
 - Access Key ID
 - Secret Access Key
 - Default region (e.g., **ap-south-1**)
 - Output format (kept as JSON)

Created a new vault using:


```
aws glacier create-vault --account-id - --vault-name my-cli-vault
--region ap-south-1
```

4. ✓ This command created a vault directly from the terminal.

Listed all vaults to verify:

```
aws glacier list-vaults --account-id - --region ap-south-1
```

- 5.

Described the specific vault to check details:

```
aws glacier describe-vault --account-id - --vault-name my-cli-vault
--region ap-south-1
```

- 6.

(Optional) Uploaded a small test file:

```
aws glacier upload-archive --account-id - --vault-name my-cli-vault
--body test.txt --region ap-south-1
```

- 7.

8. Later, deleted the uploaded file to avoid charges and tested vault deletion using:

```
aws glacier delete-vault --account-id - --vault-name my-cli-vault
--region ap-south-1
```

