VOLUME CREATION IN AWS EC2

Objective

- To understand the process of creating and attaching Elastic Block Store (EBS) volumes in AWS.

- To learn how to extend the storage capacity of an EC2 instance by adding a new volume.

- To gain hands-on experience in managing persistent storage for cloud instances.

Pre-requisite

- An active AWS account with permissions to manage EC2 and EBS.

- Basic knowledge of EC2 instances, availability zones, and storage types.

- At least one running EC2 instance in the same Availability Zone as the volume.

- SSH client (e.g., terminal, PuTTY) to connect and configure the instance.
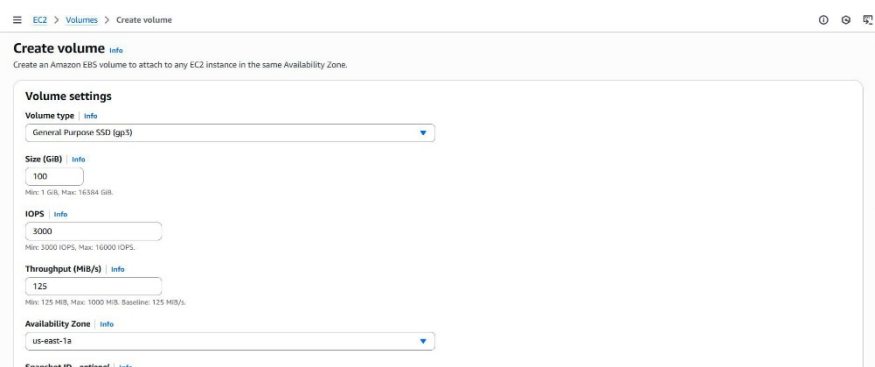

Procedure:

Go to **EC2 → Volumes**. Click **Create Volume**.
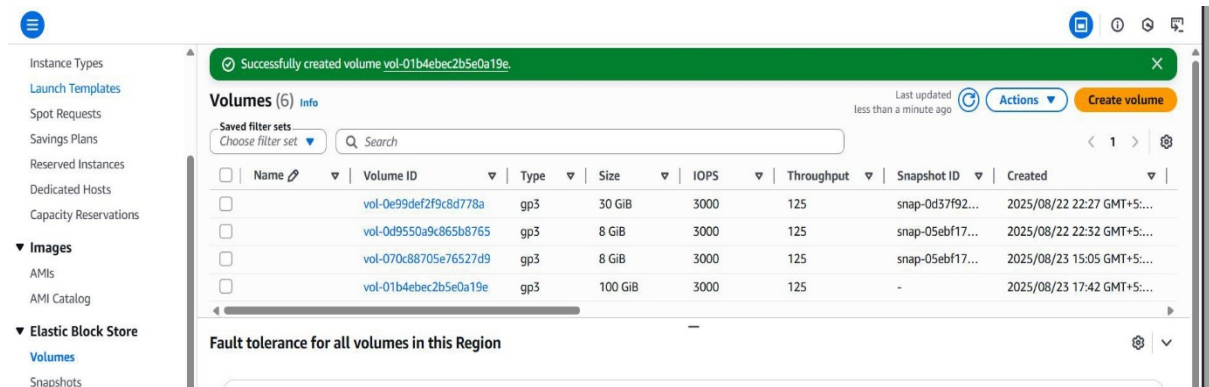
Choose size (e.g., 8 GiB).

Select **Availability Zone** same as your EC2 instance. Volume type: General Purpose SSD (gp2).
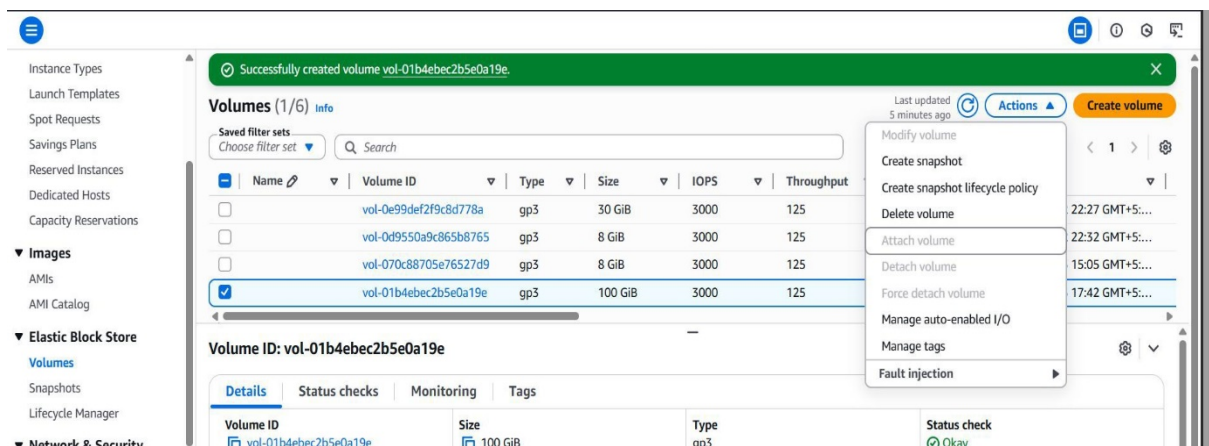
Click **Create Volume**.

Select the new volume → click **Actions → Attach Volume**. Choose your **EC2 instance** from the list → click **Attach**.

SSH into your instance and run:

Conclusion

In this lab, we successfully created an EBS volume, attached it to an EC2 instance, and prepared it for use. Volume creation and attachment are essential for scaling storage, separating data from compute resources, and ensuring persistence beyond the instance lifecycle. This demonstrates how AWS provides flexible and reliable storage management for cloud applications.