Andhra Pradesh State Skill Development Corporation
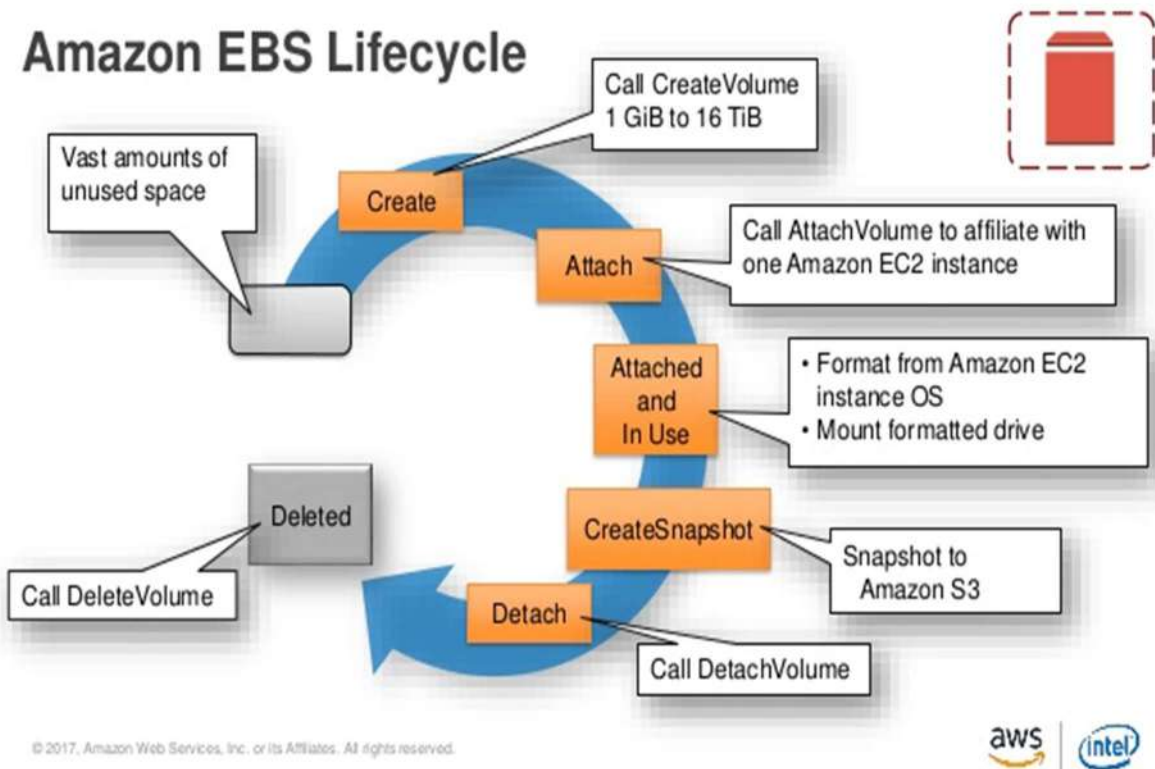

AWS CLOUD COMPUTING

ELASTIC BLOCK STORE (EBS)

Elastic Block Store (EBS)

Amazon Elastic Block Store (Amazon EBS) provides block level storage volumes for use with EC2 instances. EBS volumes are highly available and reliable storage volumes that can be attached to any running instance that is in the same Availability Zone. EBS volumes that are attached to an EC2 instance are exposed as storage volumes that persist independently from the life of the instance.

Amazon EBS Lifecycle

- Vast amounts of unused space
- Call CreateVolume 1 GiB to 16 TiB
- Create
- Attach — Call AttachVolume to affiliate with one Amazon EC2 instance
- Attached and In Use
  - Format from Amazon EC2 instance OS
  - Mount formatted drive
- CreateSnapshot — Snapshot to Amazon S3
- Detach — Call DetachVolume
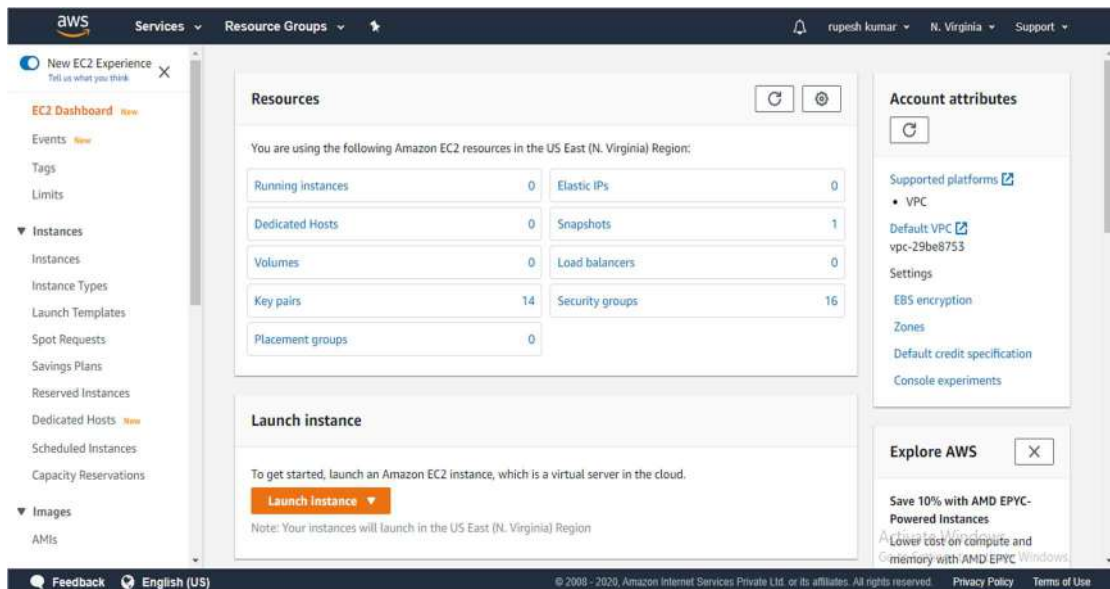- Deleted — Call DeleteVolume

aws | (intel)

- Create EBS Volume

- Attaching and Detaching EBS Volume
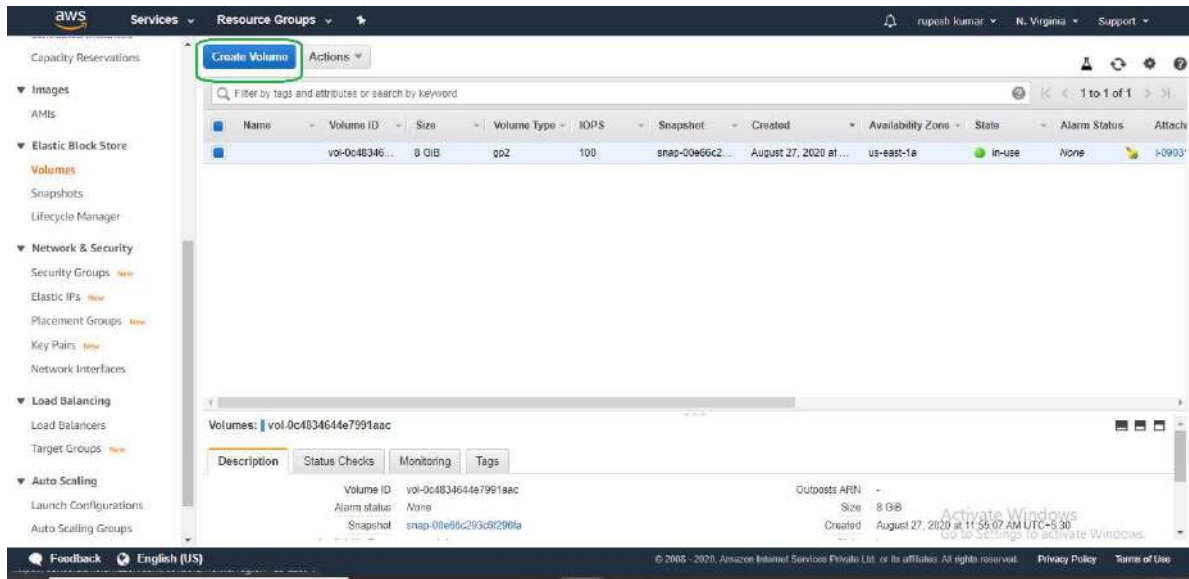
- Taking the snapshot of EBS Volume.

To Configure EBS with following task
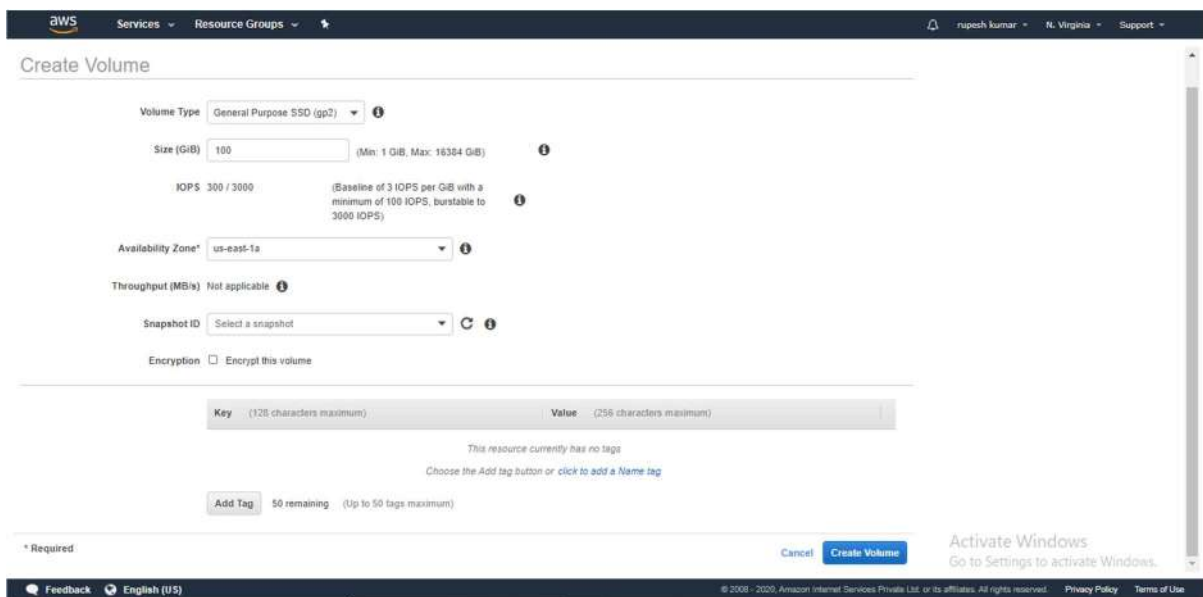
→ **To create an EBS Volume**

1. Open the Amazon EC2 console

2. From the navigation bar, select the region in which you would like to create your volume. This choice is important because some Amazon EC2 resources can be shared between regions, while others can't.

3. In the navigation pane, choose **ELASTIC BLOCK STORE**, Volumes.
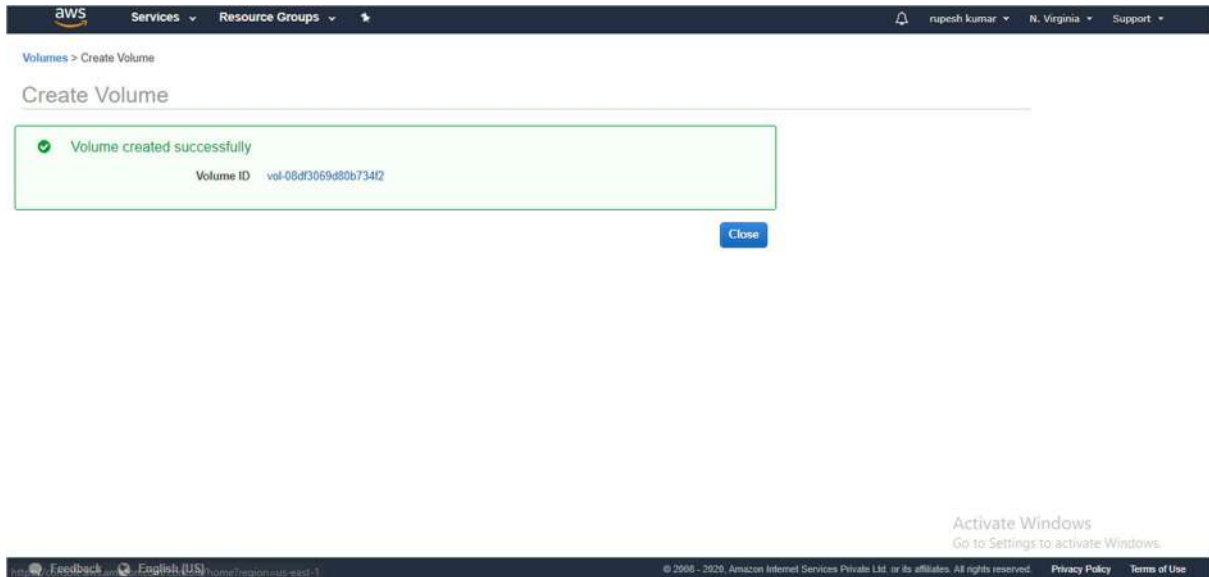
4. Choose Create Volume.

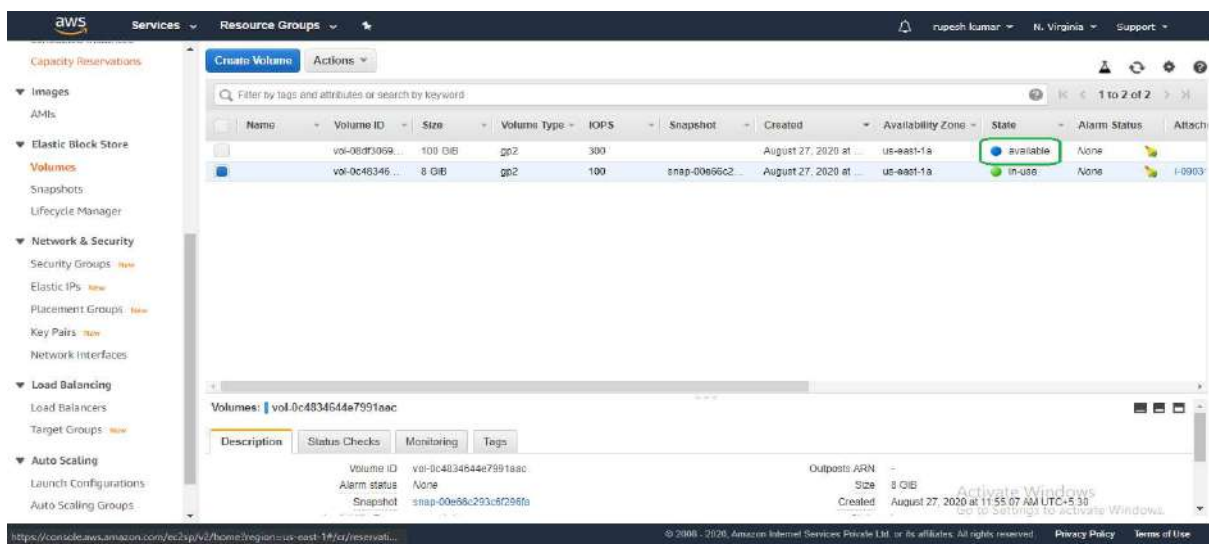1. For Volume Type, choose a volume type.

1. For Size (GiB), type the size of the volume (General Purpose SSD (gp2)).
2. With a Provisioned IOPS SSD volume, for IOPS, type the maximum number of input/output operations per second (IOPS) that the volume should support (100/3000).
3. For the Availability Zone, choose the Availability Zone in which to create the volume. EBS volumes can only be attached to EC2 instances within the same Availability Zone(us-east-1a)

4. (Optional) Choose Create additional tags to add tags to the volume. For each tag, provide a tag key and a tag value.
5. Choose Create Volume.

To Monitoring the state of your volumes

Select the volume check state → Available

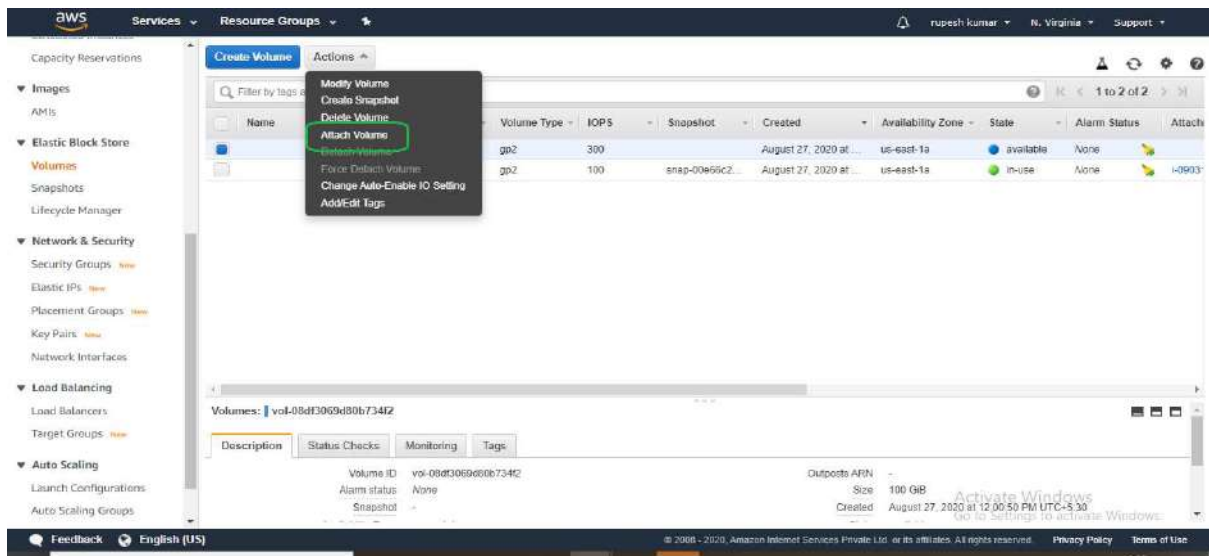To attaching and detaching EBS volume in windows instance
On the EC2 Dashboard panel
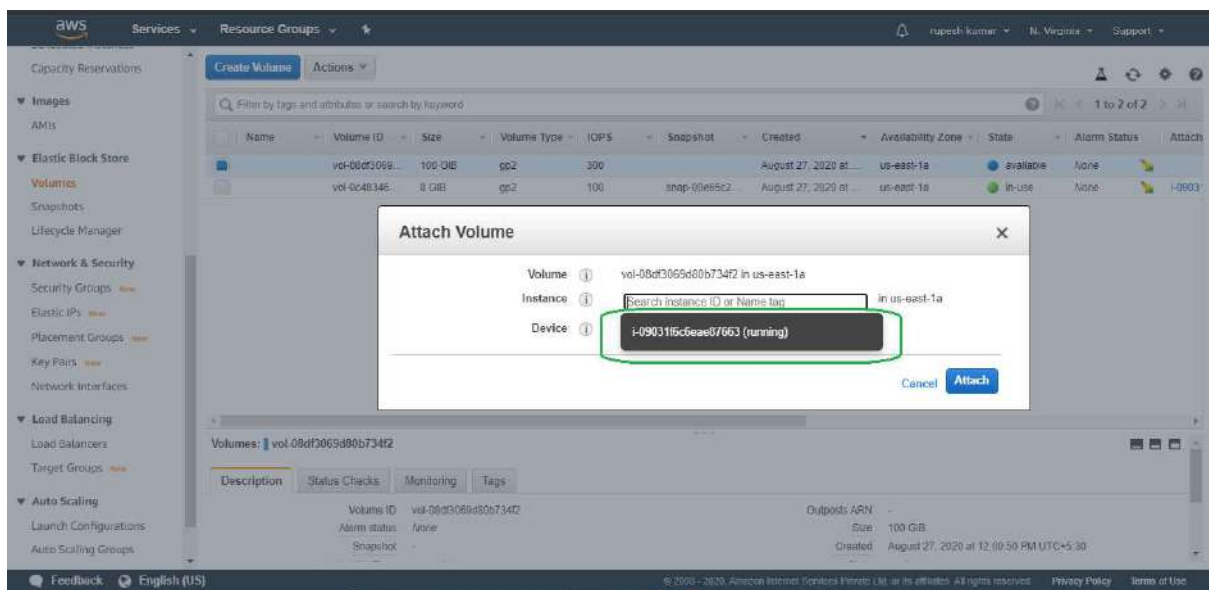Choose "Elastic Block Store" click on volume

Note: The volume which you want to attach to an instance should be in the same availability zone.

Now click on **Action** button,

In the navigation pane, choose Elastic Block Store, Volumes. Select an available volume and choose Actions, Attach Volume. Select **Attach Volume**
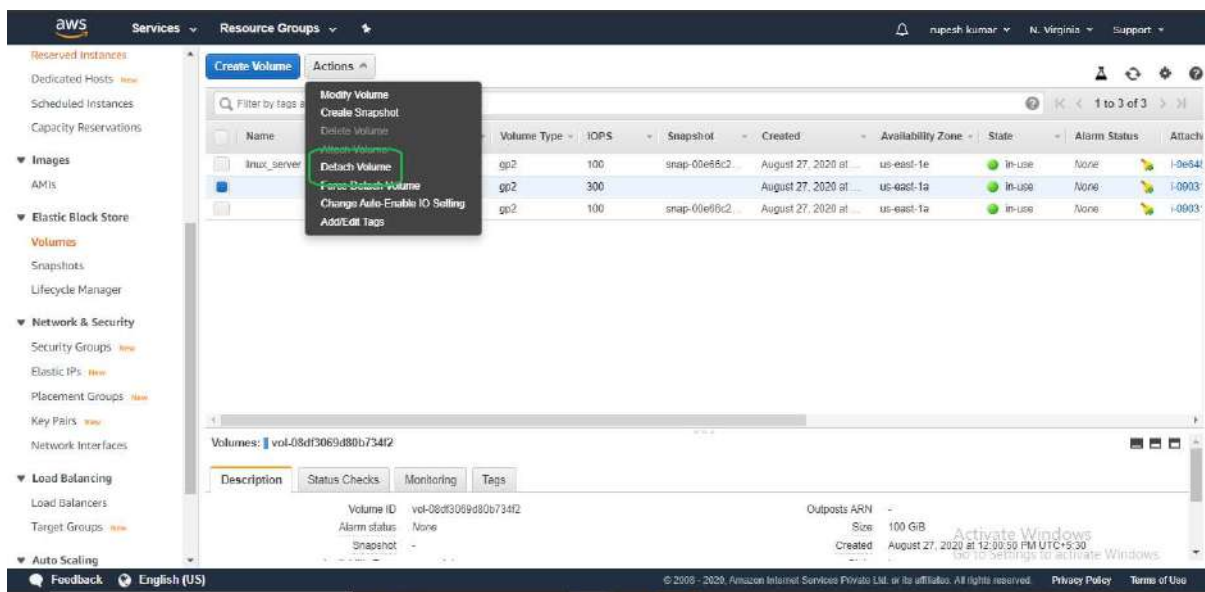

For Instance, start typing the name or ID of the instance. Select the instance from the list of options (only instances that are in the same Availability Zone as the volume are displayed).

For Device, you can keep the suggested device name, or type a different supported device name. Select Instance and then Click on **Attach**.

To Detach the volume

Click on **Detach Volume**

Click on **Yes, Detach**