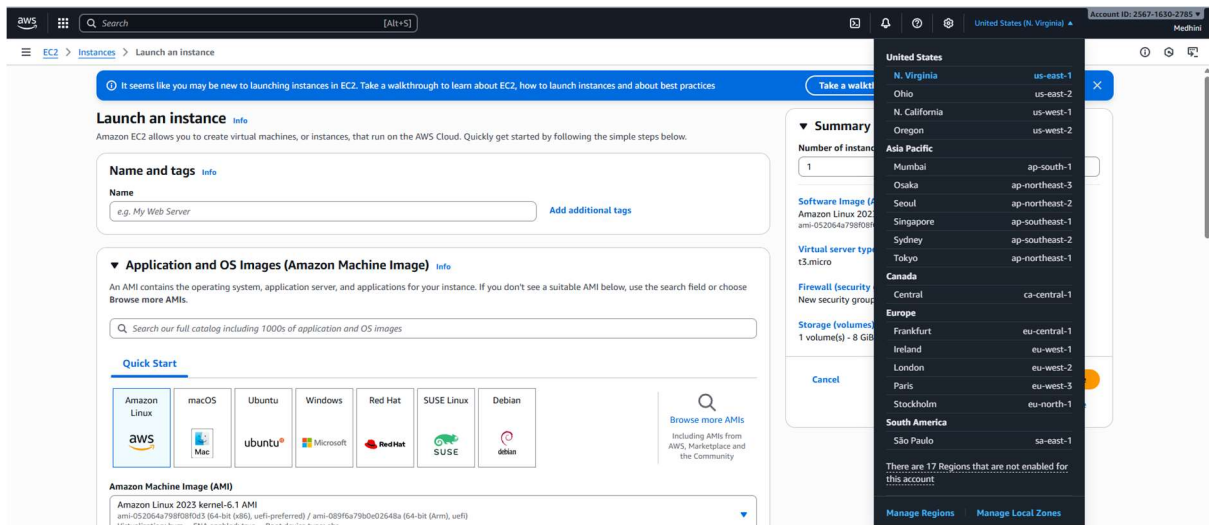
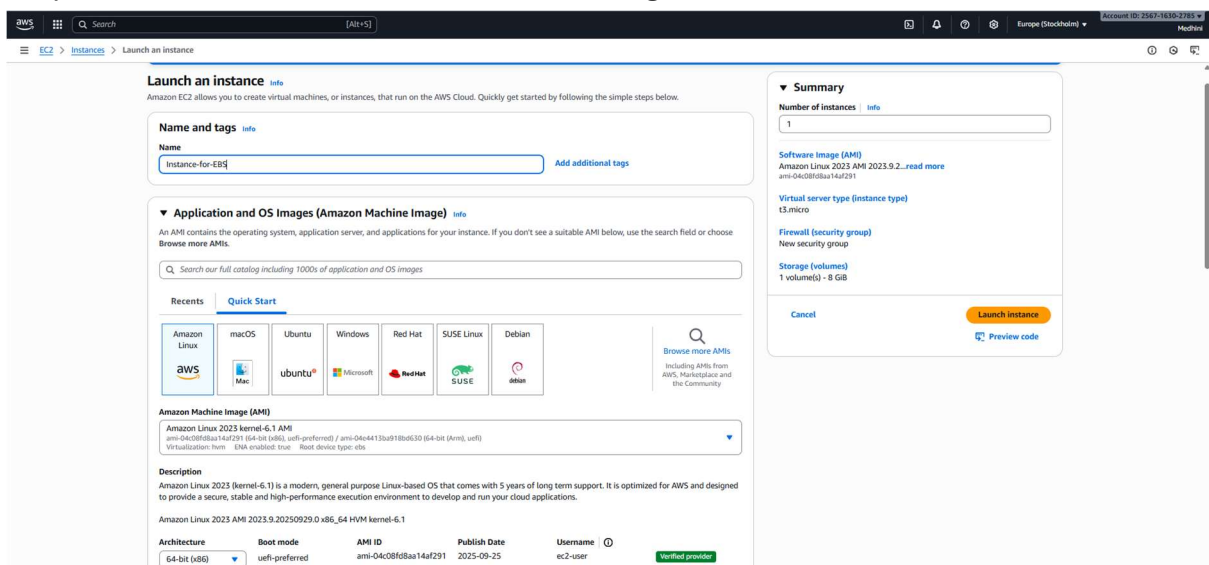


Create and Instance

Step 1: Select “**Region**” as shown in below figure



Step 2: Create “**Instance**” as shown in below figure



Assignment 1 - EBS, AMI and Volume

Step 3: Select **SSH, HTTP AND HTTPS**

Key pair name - required
ebs-keypair [Create new key pair](#)

Network settings [Info](#) [Edit](#)

Network [Info](#)
vpc-008e8b801be51098

Subnet [Info](#)
No preference (Default subnet in any availability zone)

Auto-assign public IP [Info](#)
Enable

Firewall (security groups) [Info](#)
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

☒ Create security group ☐ Select existing security group

We'll create a new security group called 'launch-wizard-3' with the following rules:

- ☒ Allow SSH traffic from [Helps you connect to your instance](#) [Anywhere](#) [0.0.0.0/0](#)
- ☒ Allow HTTPS traffic from the internet [To set up an endpoint, for example when creating a web server](#)
- ☒ Allow HTTP traffic from the internet [To set up an endpoint, for example when creating a web server](#)

[Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.](#)

Configure storage [Info](#) [Advanced](#)

1x GiB Root volume, 3000 IOPS, Not encrypted

[Add new volumes](#)

Summary

Number of instances [Info](#)
1

Software Image (AMI)
Amazon Linux 2023 AMI 2023.9.2... [read more](#)
ami-04c08f0baa14d291

Virtual server type (instance type)
t3.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

[Cancel](#) [Launch instance](#) [Preview code](#)

Step 4: Instance is created as shown in below figure

Instance summary for i-0d315a26a3b6221cf (Instance-for-EBS) [Info](#)

Updated less than a minute ago

Instance ID
[i-0d315a26a3b6221cf](#)

IPv6 address
54.227.90.216 | [open address](#)

Instance state
[Running](#)

Private IP DNS name (IPv4 only)
[ip-172-31-29-215.ec2.internal](#)

Instance type
t3.micro

VPC ID
[vpc-0f3fed0d65ca7f768](#)

Subnet ID
[subnet-09bfc66b118b906](#)

Instance ARN
[arn:aws:ec2:us-east-1:256716302785:instance/i-0d315a26a3b6221cf](#)

Public IPv4 address
[54.227.90.216](#) | [open address](#)

Private IPv4 addresses
[172.31.29.215](#)

Public DNS
[ec2-54-227-90-216.compute-1.amazonaws.com](#) | [open address](#)

Elastic IP addresses
-

AWS Compute Optimizer finding
[Opt-in to AWS Compute Optimizer for recommendations.](#) | [Learn more](#)

Auto Scaling Group name
-

Managed
false

Details | Status and alarms | Monitoring | Security | Networking | Storage | Tags

Create AMI

Step 1: Go to **AMI** as shown in below figure

Instances (1/1) [Info](#)

[Find Instance by attribute or tag \(case-sensitive\)](#) [All states](#)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
Instance-for-EBS	i-0d315a26a3b6221cf	Running	t3.micro	Initializing	View alarms +	us-east-1d	ec2-54-227-90-216.co...	54.227.90.216	-

i-0d315a26a3b6221cf (Instance-for-EBS)

Details | Status and alarms | Monitoring | Security | Networking | Storage | Tags

Instance summary [Info](#)

Instance ID
[i-0d315a26a3b6221cf](#)

Public IPv4 address
[54.227.90.216](#) | [open address](#)

Instance state
[Running](#)

Private IP DNS name (IPv4 only)
[ip-172.31.29.215.ec2.internal](#)

IPv6 address
-

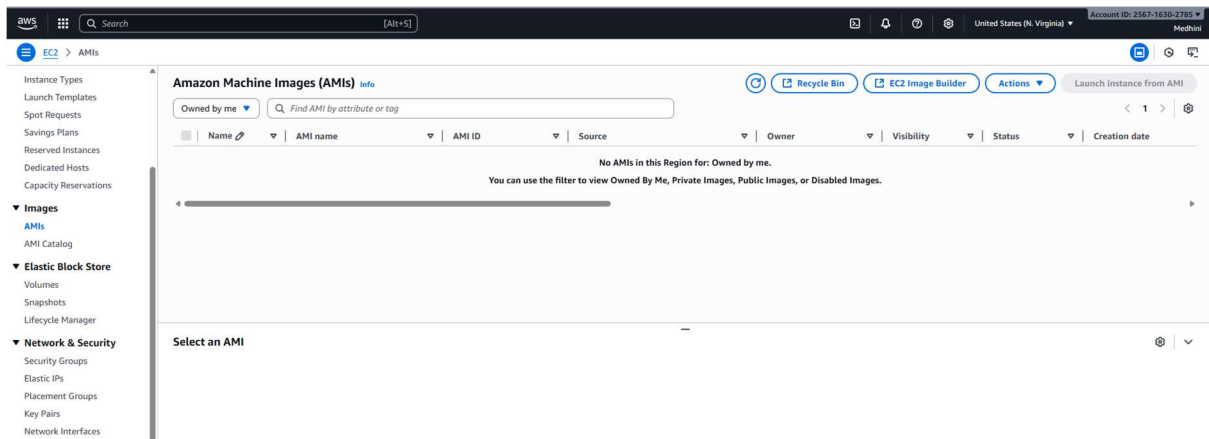
Hostname type
IP name: ip-172.31.29.215.ec2.internal

Private IPv4 addresses
[172.31.29.215](#)

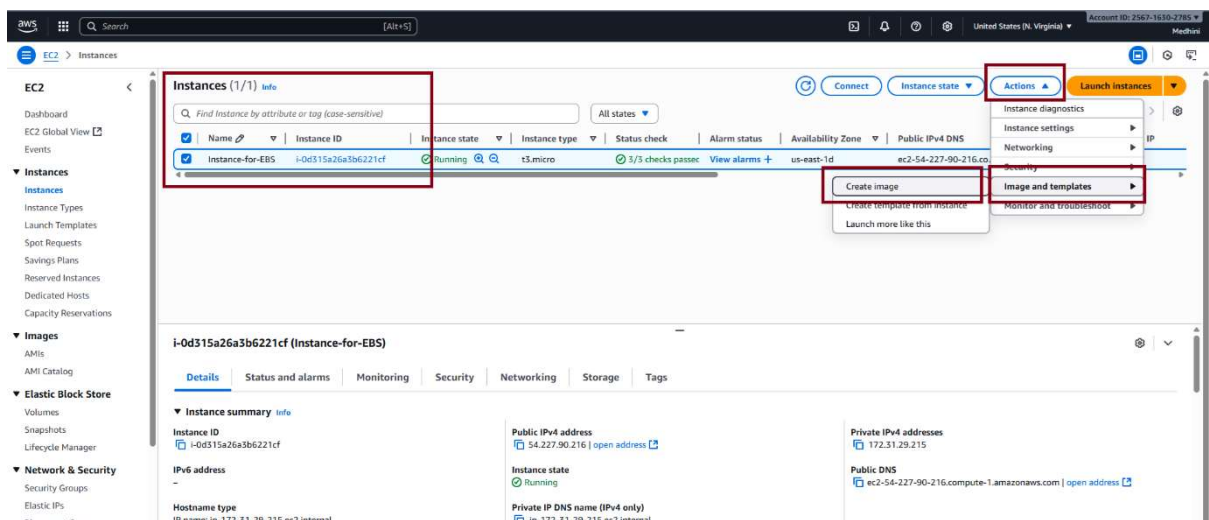
Public DNS
[ec2-54-227-90-216.compute-1.amazonaws.com](#) | [open address](#)

Assignment 1 - EBS, AMI and Volume

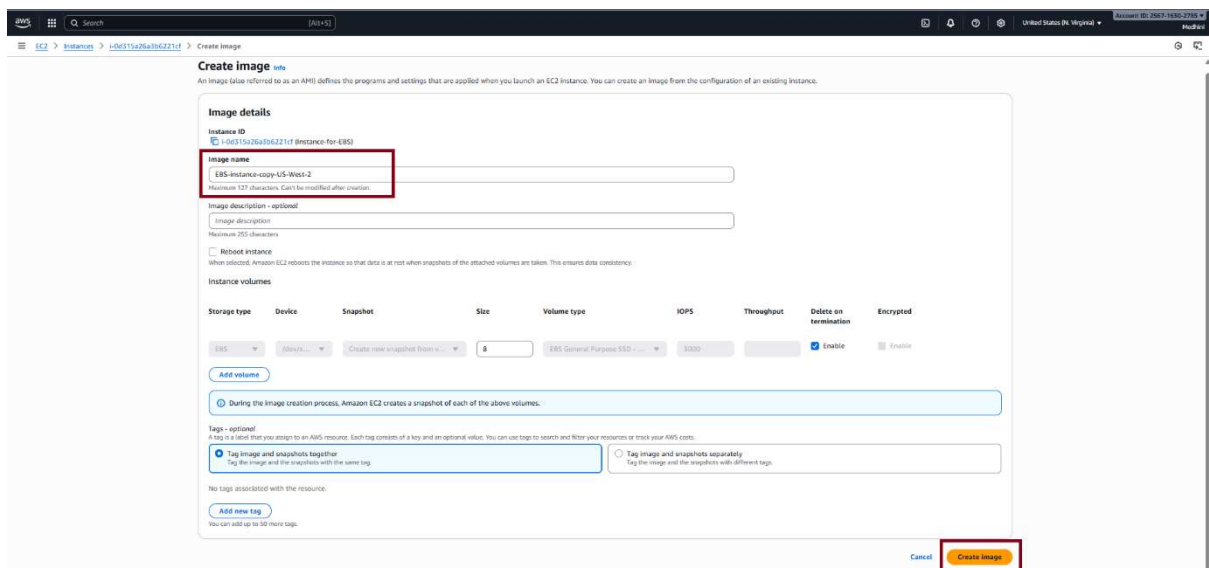
Step 2: You will be redirect to below section



Step 3: Go to Instance, and select the Instance → Click on “Actions” → “Image and Templates” → “Create Image” as shown in below figure

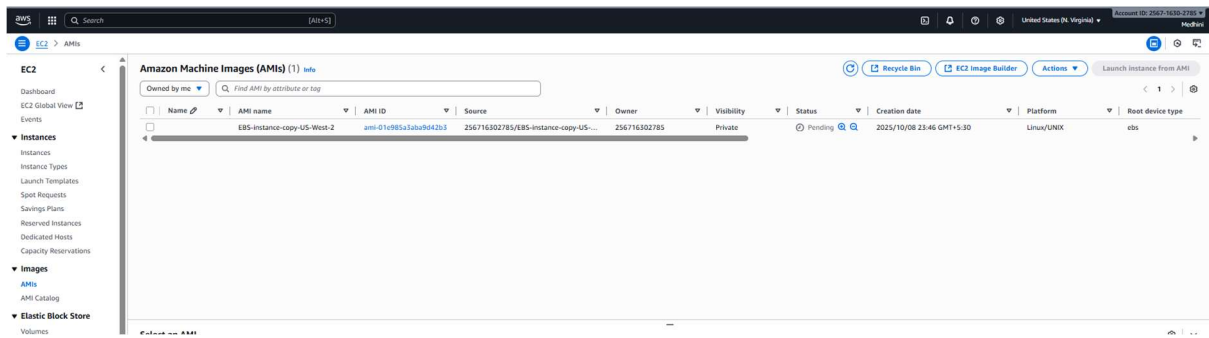


Step 4: Give Instance name and click on “Create image” as shown in below figure



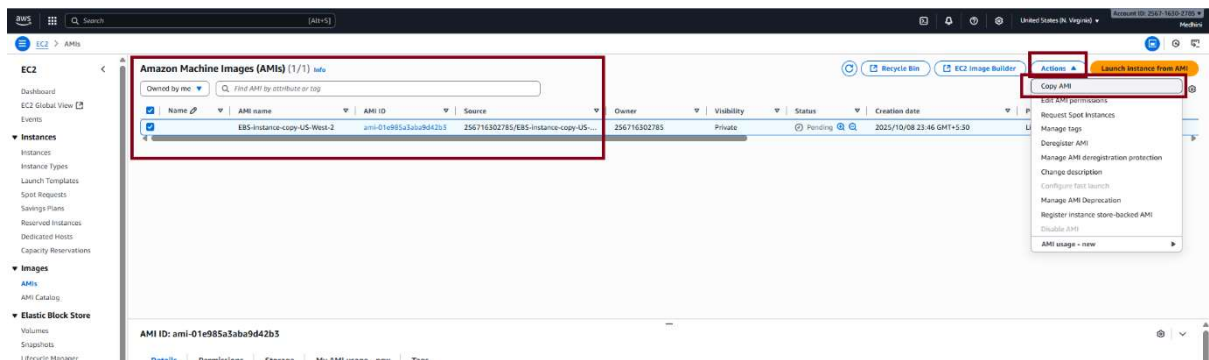
Assignment 1 - EBS, AMI and Volume

Step 5: Go to **AMI**, you can see the **AMI** is created

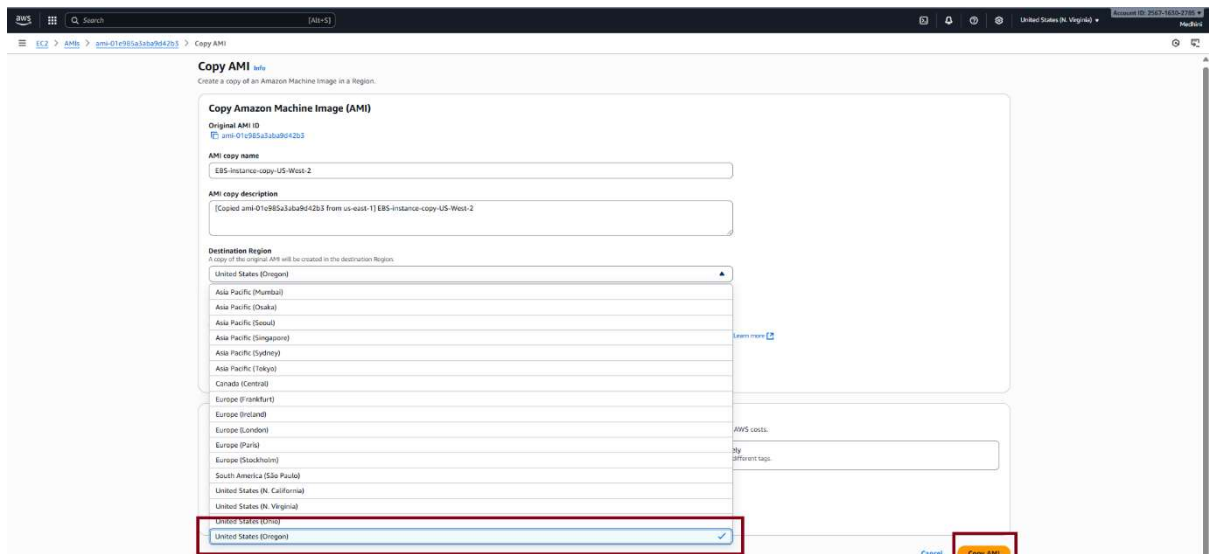


Copy AMI TO US-WEST-2 Region

Step 1: Select “**AMI**”, go to “**Action**” -> then click on “**Copy AMI**”

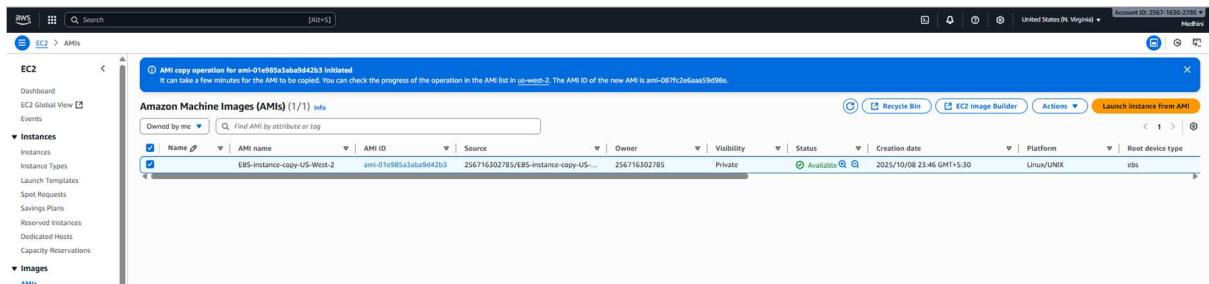


Step 2: You will get below section, select “**Region**” as shown in below picture

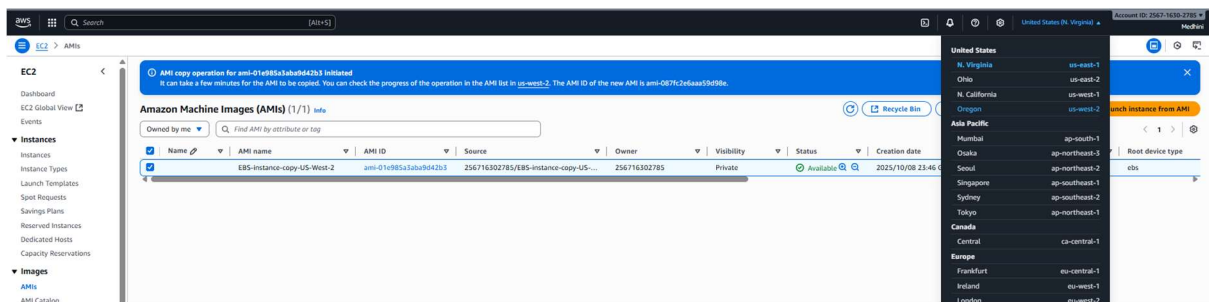


Assignment 1 - EBS, AMI and Volume

Step 3: You will see the below page, once it is initiated

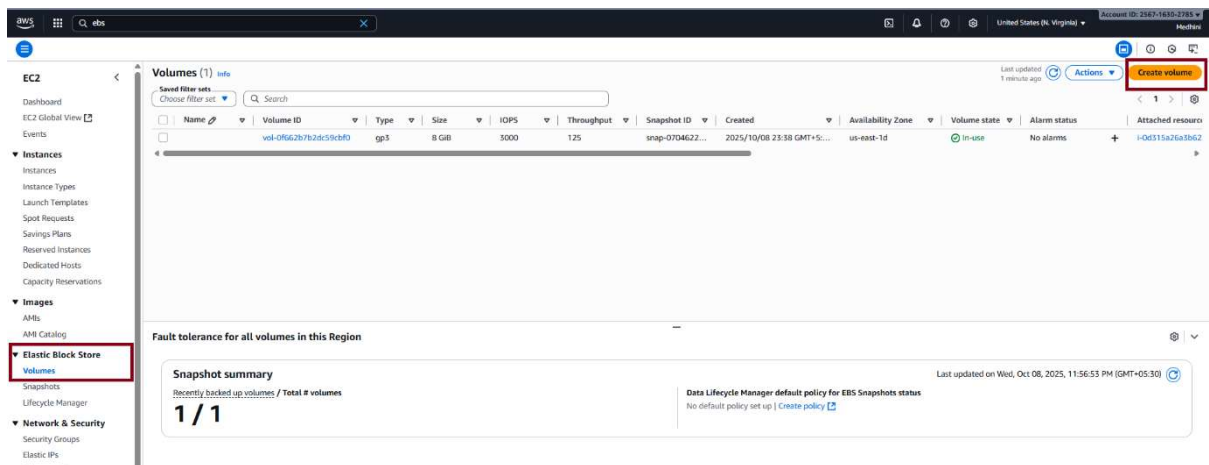


Step 4: Go to **US-WEST-2** region to check



Create Volume

Step 1: Go to “**Elastic Block Store**”, and click on “**Volumes**” and then click on “**Create Volume**”



Assignment 1 - EBS, AMI and Volume

Step 2: Select Size like **5, 10, 15** etc according to requirement and click on “**Create Volume**”

Create an Amazon EBS volume to attach to any EC2 instance in the same Availability Zone.

Volume settings

Volume type: [info](#)
General Purpose SSD (gp3)

Size (GB): [info](#)
5
Min: 1 GB, Max: 65536 GB

IOPS: [info](#)
3000
Min: 3000 IOPS, Max: 80000 IOPS

Throughput (MB/s): [info](#)
125
Min: 125 MB/s, Max: 2000 MB/s, Baseline: 125 MB/s

Availability Zone: [info](#)
us-east-1a

Snapshot ID - optional: [info](#)
Don't create volume from a snapshot

Encryption: [info](#)
Use Amazon S3 encryption as an encryption solution for your EBS resources associated with your EC2 instances.
☐ Encrypt this volume

Tags - optional [info](#)
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.
No tags associated with the resource.
[Add tag](#)
You can add 50 more tags.

Snapshot summary [info](#)
[Click refresh to view backup information](#)
The volume type that you select and the tags that you assign determine whether the volume will be backed up by any Data Lifecycle Manager policies.

[Cancel](#) [Create volume](#)

Step 3: Select “**Availability zone**” as shown in below figure

Create an Amazon EBS volume to attach to any EC2 instance in the same Availability Zone.

Volume settings

Volume type: [info](#)
General Purpose SSD (gp3)

Size (GB): [info](#)
5
Min: 1 GB, Max: 65536 GB

IOPS: [info](#)
3000
Min: 3000 IOPS, Max: 80000 IOPS

Throughput (MB/s): [info](#)
125
Min: 125 MB/s, Max: 2000 MB/s, Baseline: 125 MB/s

Availability Zone: [info](#)
us-east-1d
us-east-1a
us-east-1b
us-east-1c
us-east-1d
us-east-1e
us-east-1f

Tags - optional [info](#)
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Step 3: Give a name to Volumes Created

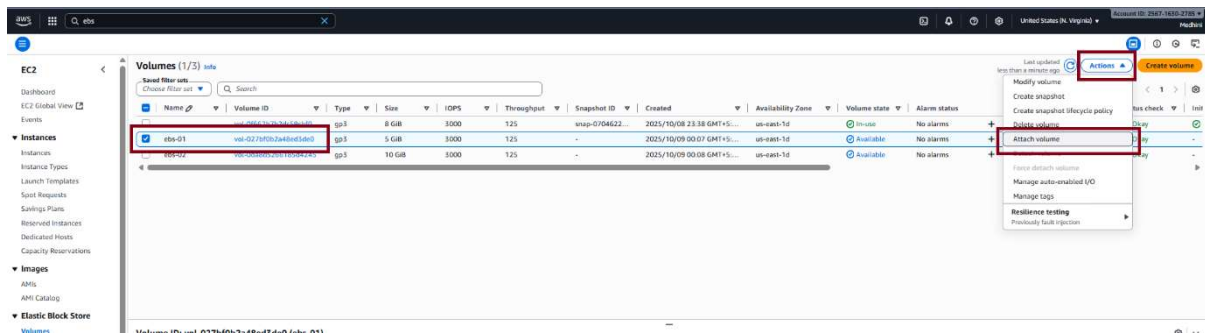
Volumes (1/2) [info](#)

Last updated: less than a minute ago [Actions](#) [Create volume](#)

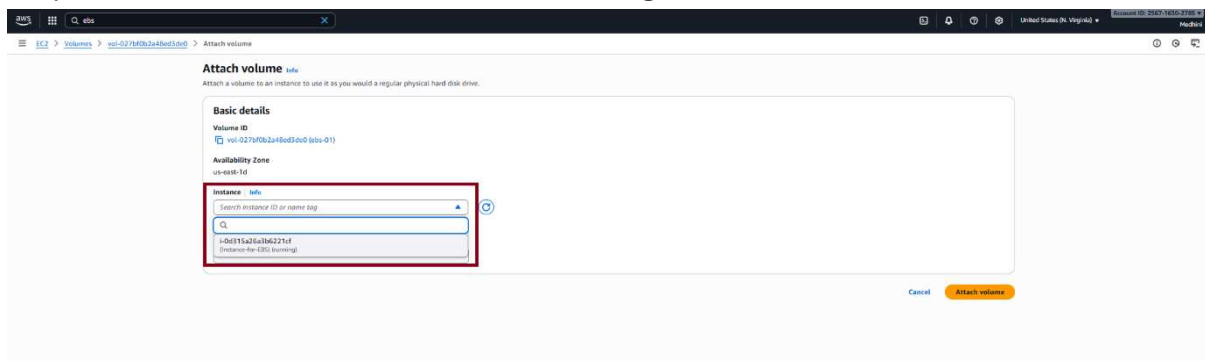
	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID	Created	Availability Zone	Volume state	Alarm status	Attached resources	Status check
<input type="checkbox"/>		vol-0f62b7b2dc5f6c9f0	gp3	8 GB	3000	125	snap-0704622...	2025/10/08 23:38 GMT+5:30	us-east-1d	In-use	No alarms	i-0d115a26a196221cf (Inst...	Okay
<input checked="" type="checkbox"/>	ebs-01	vol-0270f0b2a48ec5da0	gp3	5 GB	3000	125	-	2025/10/09 00:07 GMT+5:30	us-east-1d	Available	No alarms	-	Okay

Assignment 1 - EBS, AMI and Volume

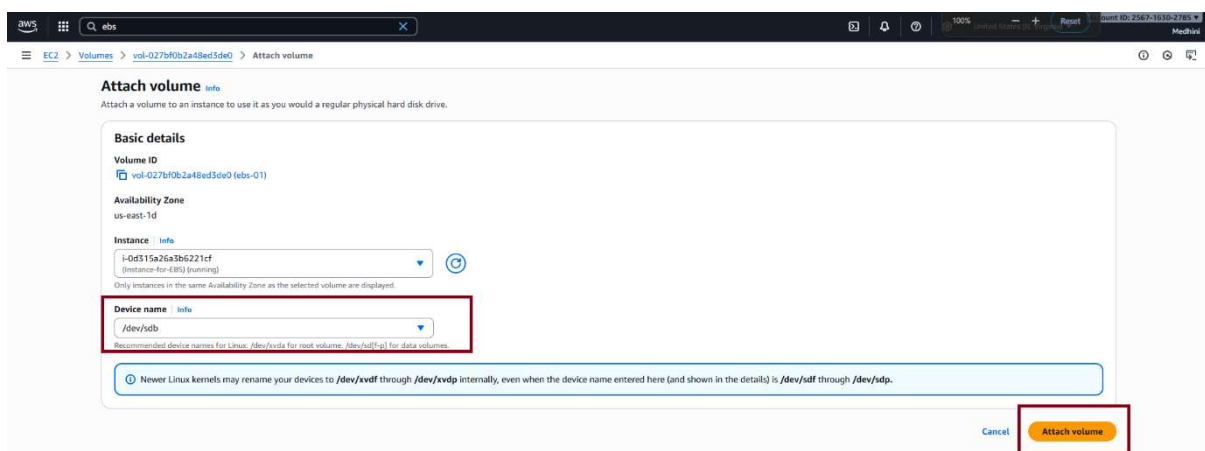
Step 4: Select **Volume** -> go to “**Actions**” click on “**Attach Volume**”



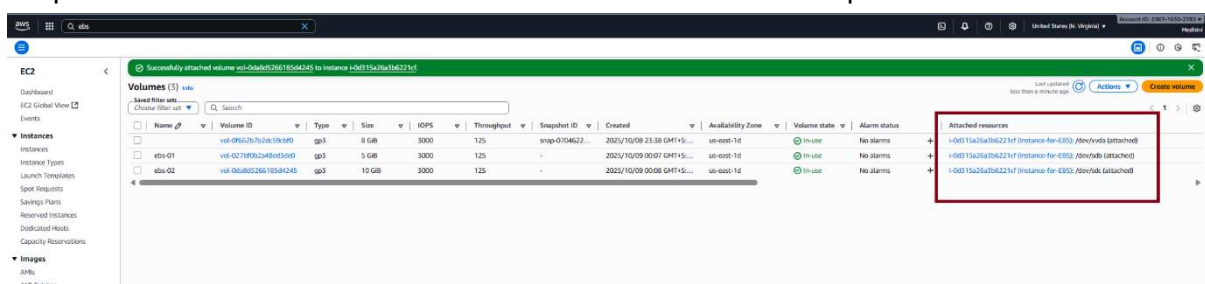
Step 5: Select “**Instance**” as shown in below figure



Step 6: Select “**Device name**” and click on “**Attach Volume**”



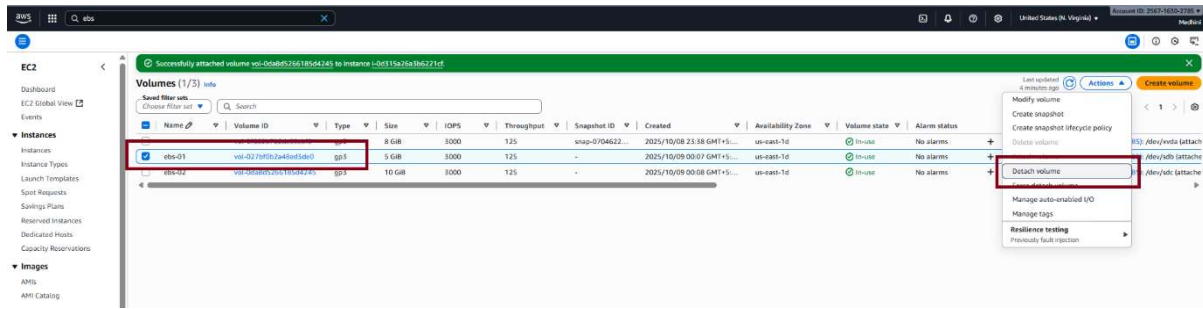
Step 7: You can see the **Attached Volume** as shown in below picture



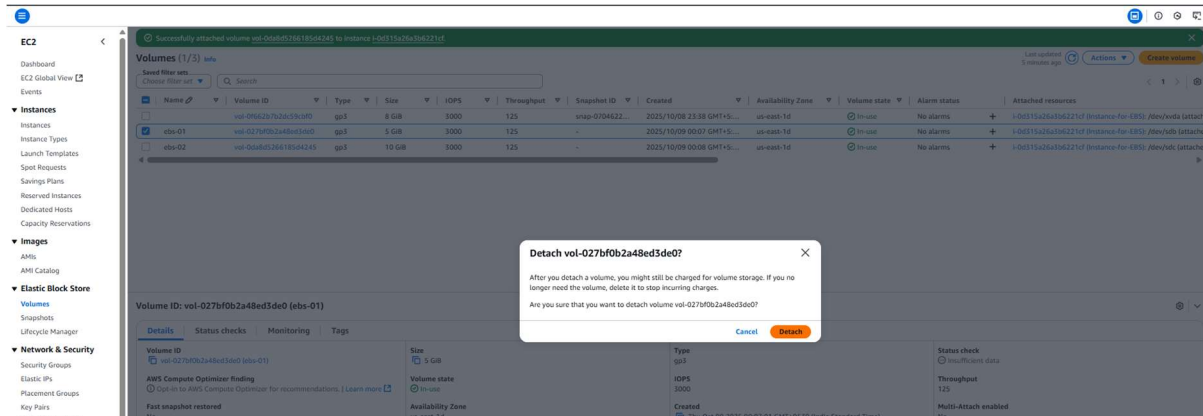
Step 8: Delete one volume after detaching it and extend the size of the other volume.

Assignment 1 - EBS, AMI and Volume

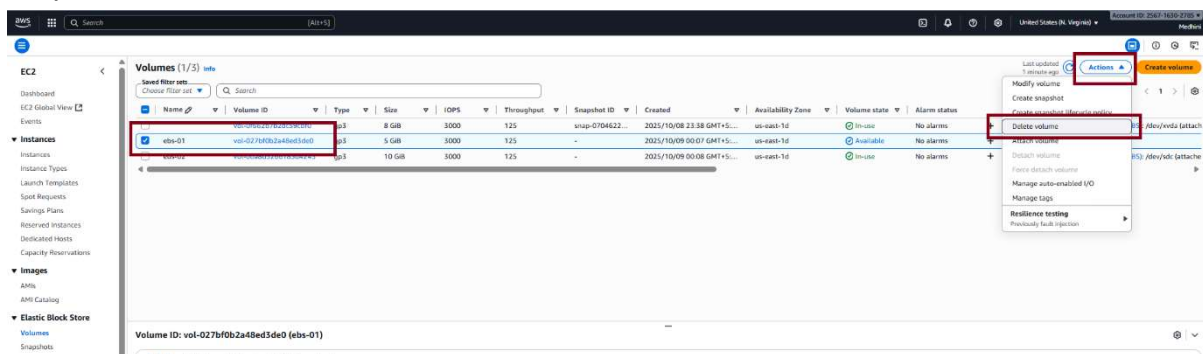
Select **“Volume”** -> click on **“Action”** -> and then click on **“Detach Volume”**



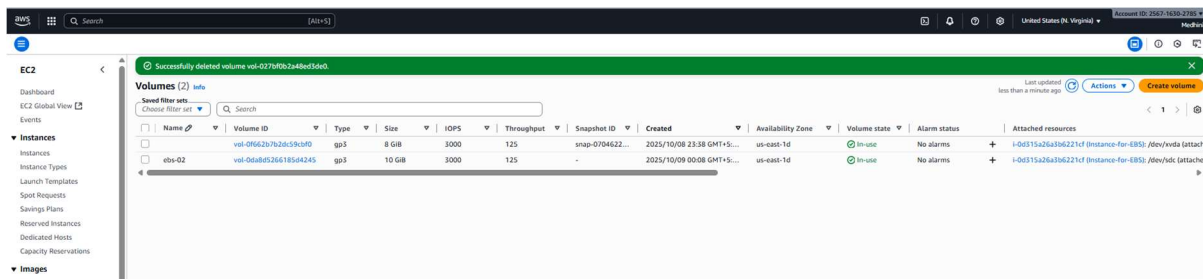
Step 9: Click on **“Detach”** as shown in below figure



Step 10: Select the **Volume** and click **“Attach”** click **“Delete Volume”**

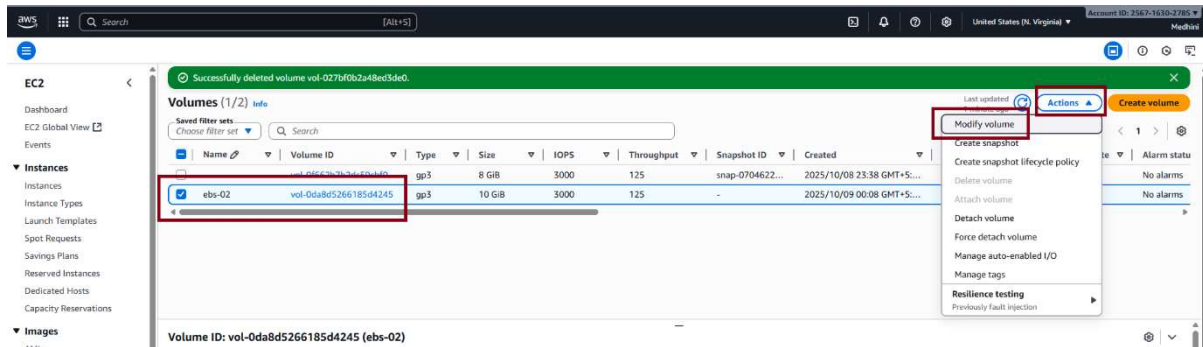


Step 11: You can see the volume deleted as shown in below picture

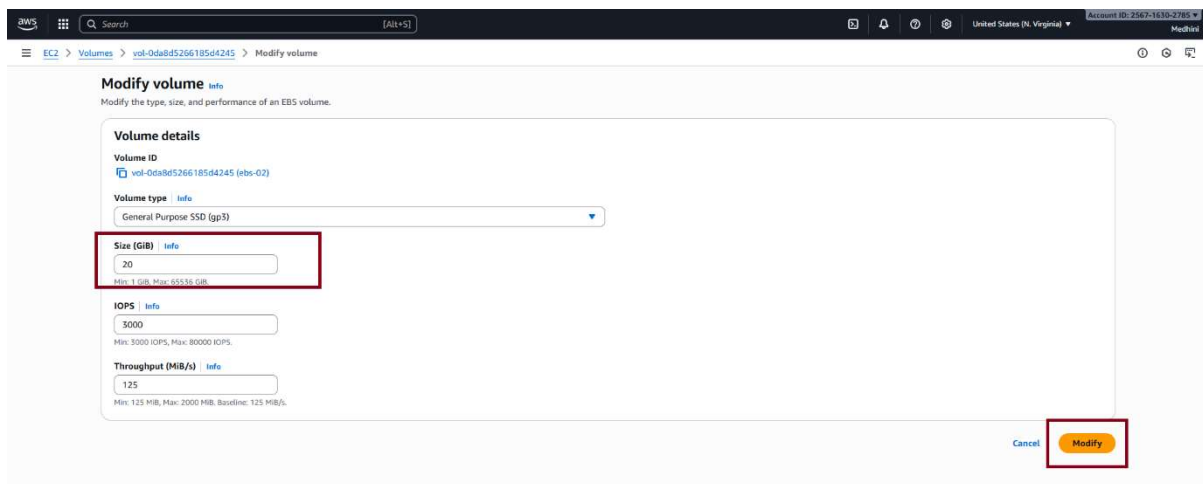


Extend The Size of Another Volume

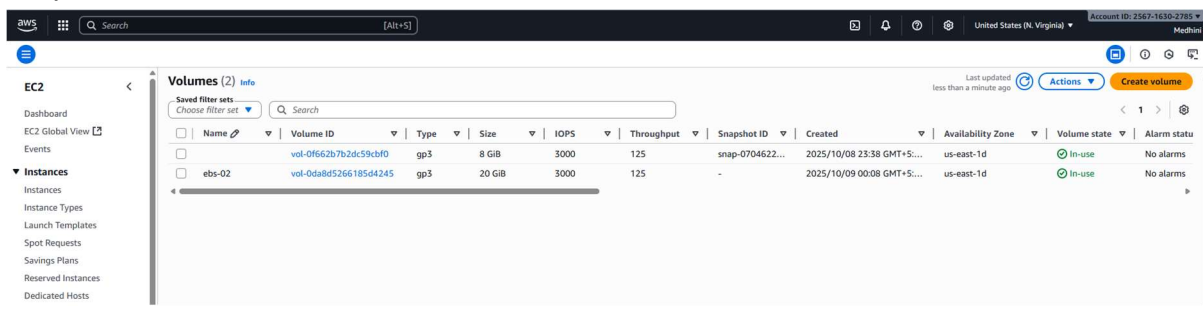
Step 1: Select the **“Volume”** -> Click on **“Action”** -> Click on **“Modify Volume”**



Step 2: Add the size and click on **“Modify”**

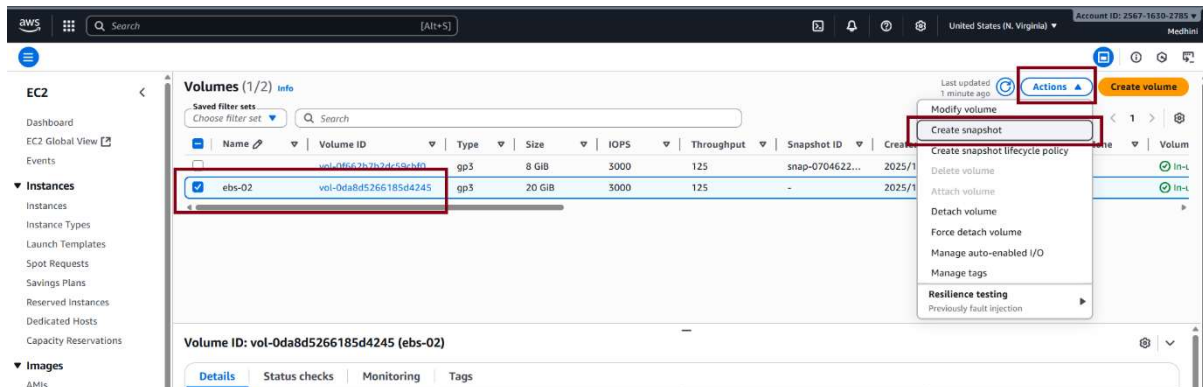


Step 3: You can see the **Size** is Extended

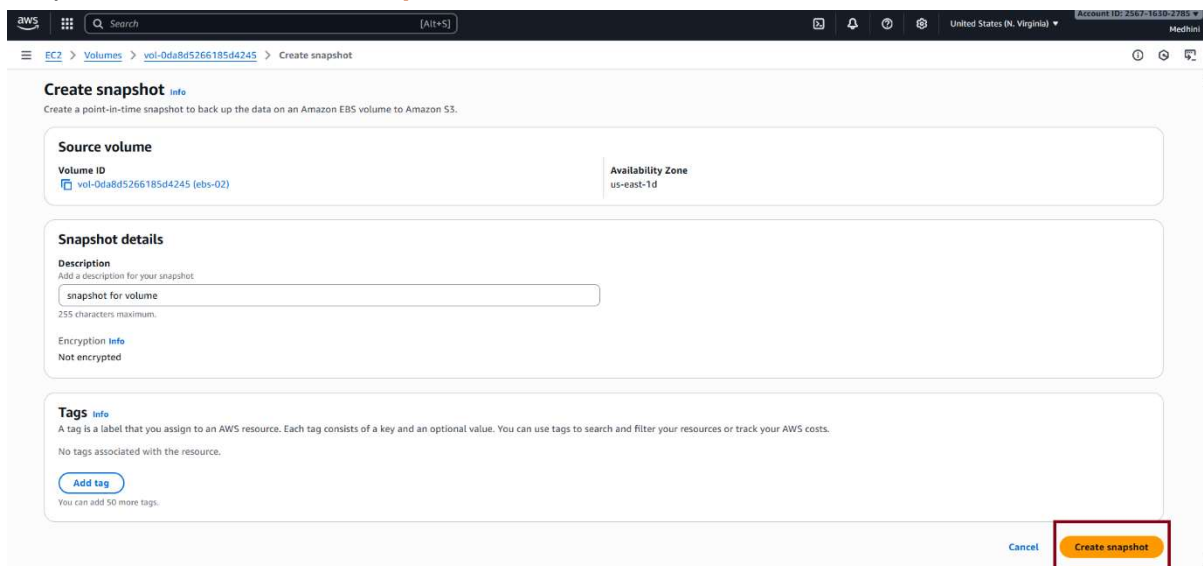


Take Backup of Volume

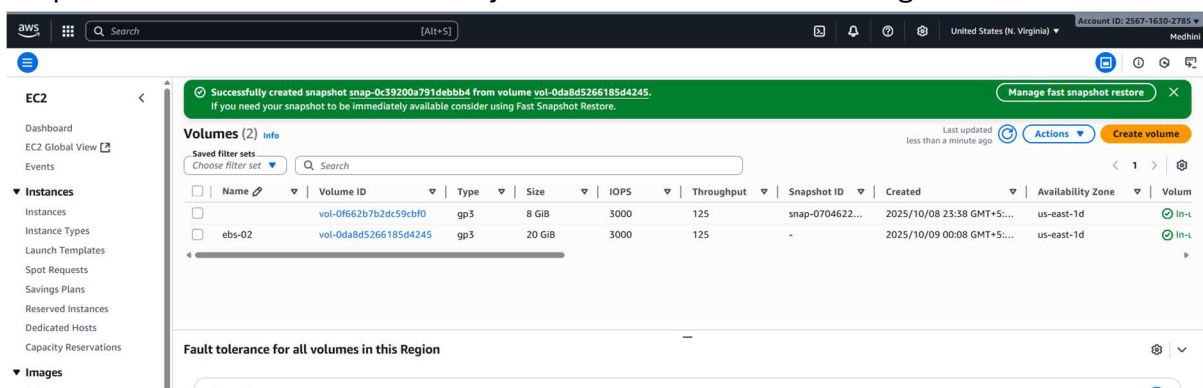
Step 1: Select Volume, click on “**Action**” -> “**Create Snapshot**”



Step 2: Click on “**Create Snapshot**”



Step 3: You can see the successfully created as shown in below figure



Step 4: You can see the Snapshot created as shown in below Figure

The screenshot displays the AWS Management Console interface for an EBS snapshot. The left-hand navigation pane shows the 'EC2' section expanded, with 'Snapshots' selected. The main content area shows the details for the snapshot 'snap-0c39200a791debbb4'. The 'Details' tab is active, showing a progress bar at 99% and a status of 'Pending'. The 'Source volume' is 'vol-0da8d5266185d4245' with a size of 20 GiB. The 'Encryption' section shows 'Not encrypted'. The 'Snapshot settings' tab is also visible, showing 'Snapshot Lock' as 'Not locked' and 'Share permissions' as 'Private'.

Details			
Snapshot ID snap-0c39200a791debbb4	Full snapshot size -	Progress 99%	Snapshot status Pending
Owner 256716302785	Started Thu Oct 09 2025 00:31:30 GMT+0530 (India Standard Time)	Product codes -	Fast snapshot restore -
Description snapshot for volume			
Source volume			
Volume ID vol-0da8d5266185d4245	Volume size 20 GiB		
Encryption			
Encryption Not encrypted	KMS key ID -	KMS key alias -	KMS key ARN -
Snapshot settings Storage tier Tags			
Snapshot Lock - new			
Lock mode Not locked			
Share permissions			
Snapshot share permissions Private			