**Lab Brief**

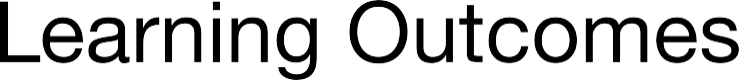


Course: Cloud Computing on AWS

**Storage**I**Volumes, S3, CLI**

(Addvolumesto EC2 instance, migratedatafromonevolumetotheother, writea CLI touploaddocumentstoS3fromlocalmachine)

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1.

2.

3.

4.

5.

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AWS (N Virginia)

Mech



EC2

Laptop SSD

SSH

CLI

Script

Browser

Snapshots

S3

AWS(Oregon)

S3

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**What is needed?**

1. AWS Account Credentials

2. EC2 Instances(Linux)

3. Shell script environment (any text editor of your choice)

4. Full access to - Volumes, Snapshots, S3, EFS, 1AM

5. Access to create anS3 bucket in 1 other region (Oregon) with cross region replication access

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**Commandreference**

1

The 1volume11 lab set of commands are as follows To elevate your privileges to root

1. sudo su

All following commands require you to be root 1.lsblk

2. file -s /dev/xvdf

3. mkfs -t ext4 /dev/xvdf 4. mkdir /appdata

5. mount /dev/xvdf /appdata

6. echo 11Thisis a sample file11 > /appdata/sample.txt 7. umount /dev/xvdf

The CLI set of commands are as follows

1. aws s3 cp [file] s3://[bucket/folder/file] 2. aws s3 Is [bucket]

3. aws s3 rm s3://[bucket/file]

Note - umount will not work if the pwd is /appdata.

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1. 2.



a) b)

3.

a) b) c) d) e)

4.

a) b) c)

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1. 2.

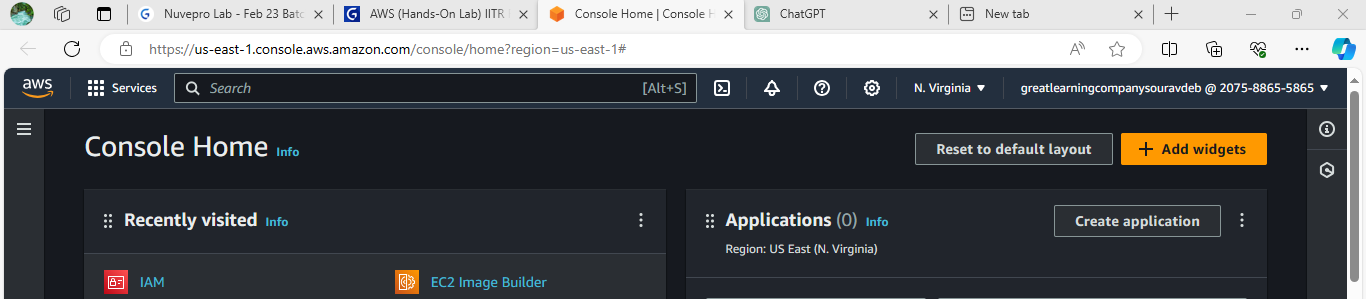
a) b) c)

3. 4. 5. 6.

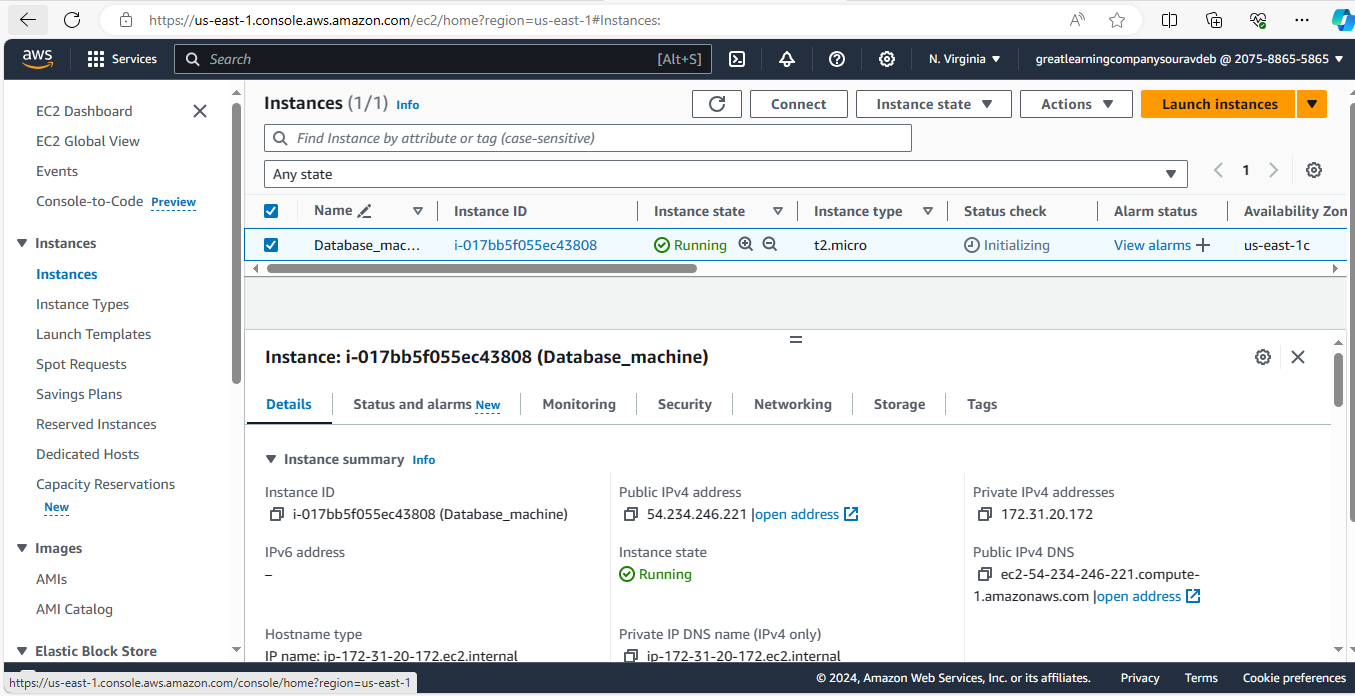
**7.**

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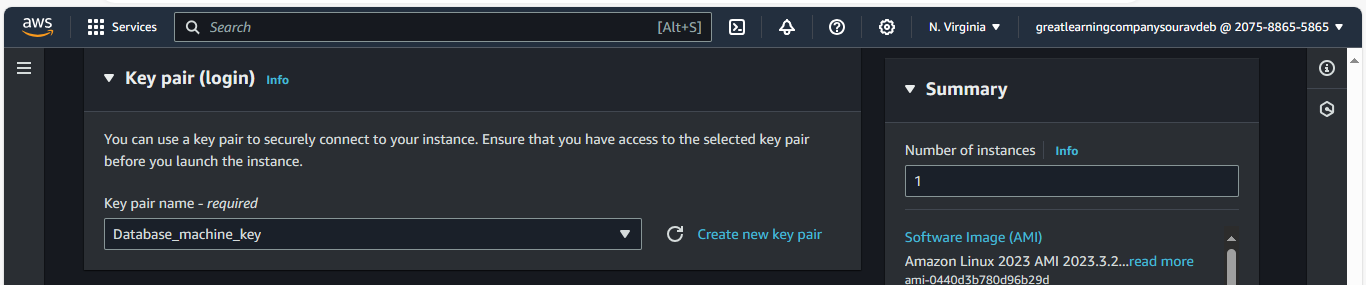
**1.Region is set to”N Virginia”**



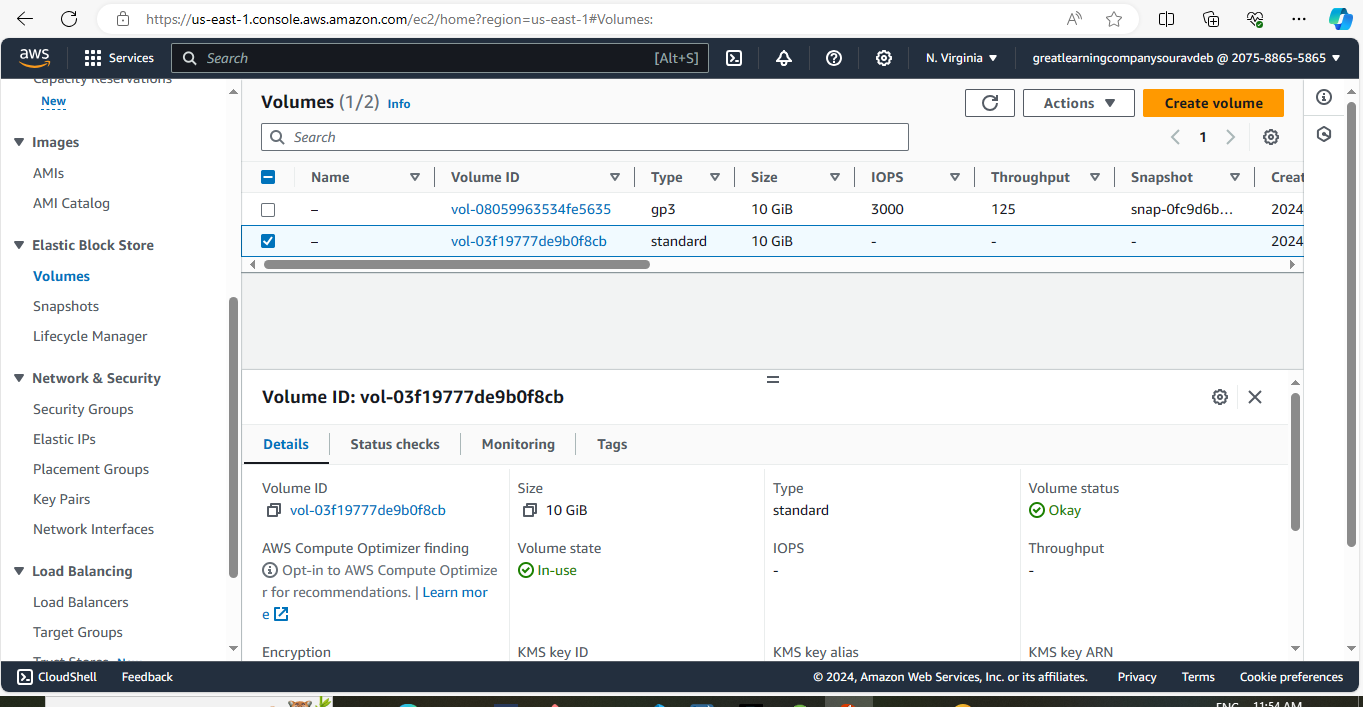
**2.a Create a EC2 instance**

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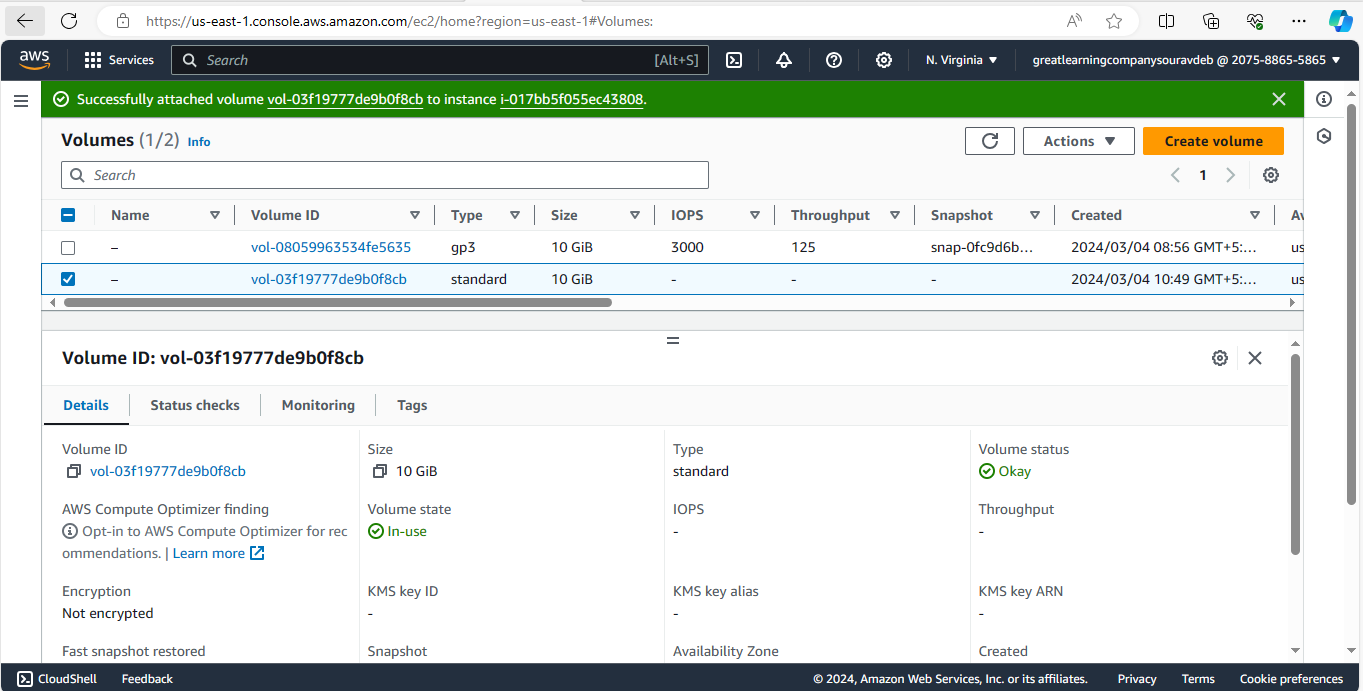
**2.b Download a PEM file**

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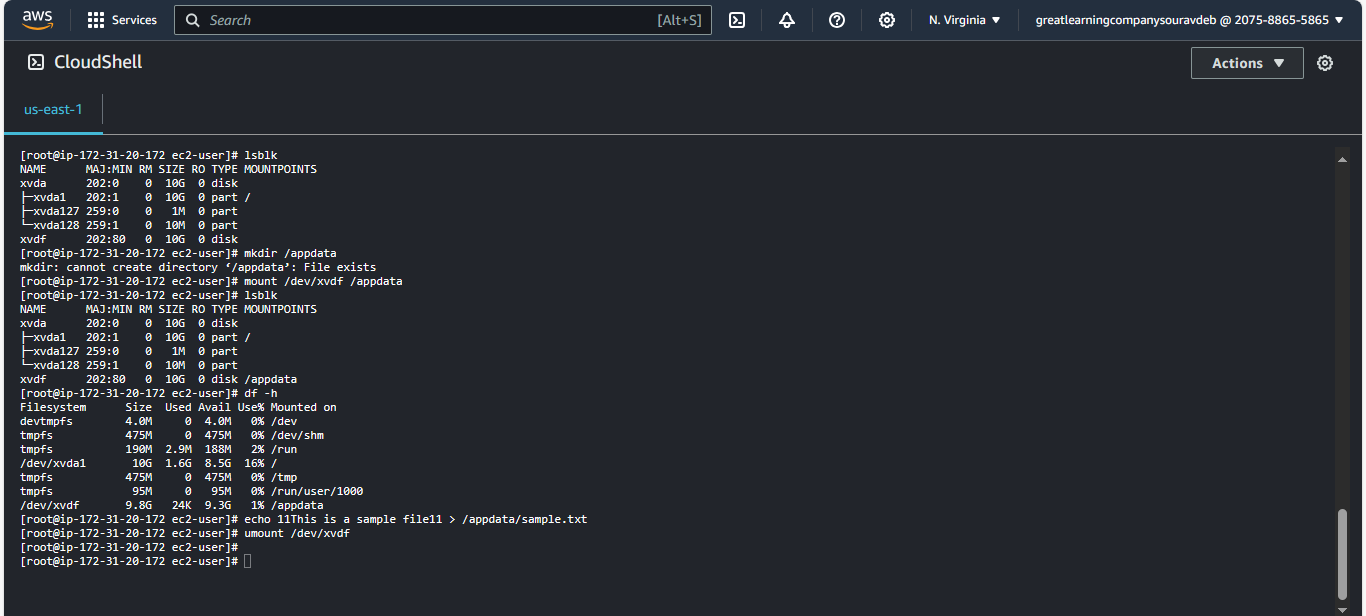
1. **a 10G magnetic volume**

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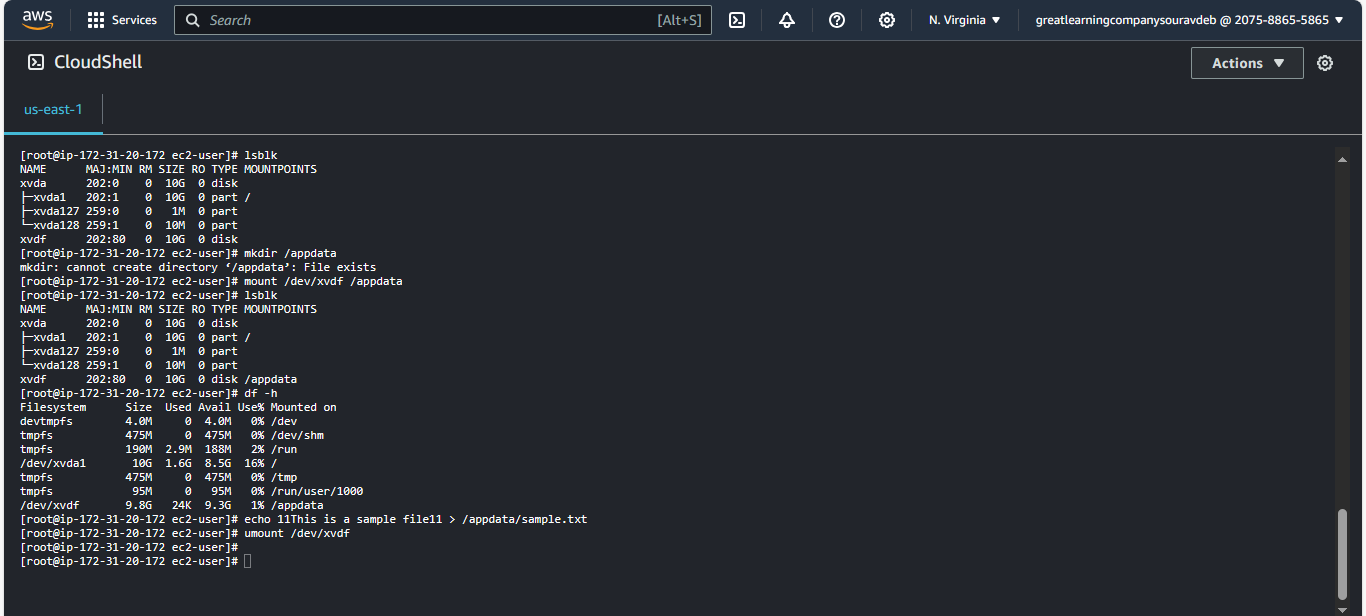
**3.b attach the volume to the instance**

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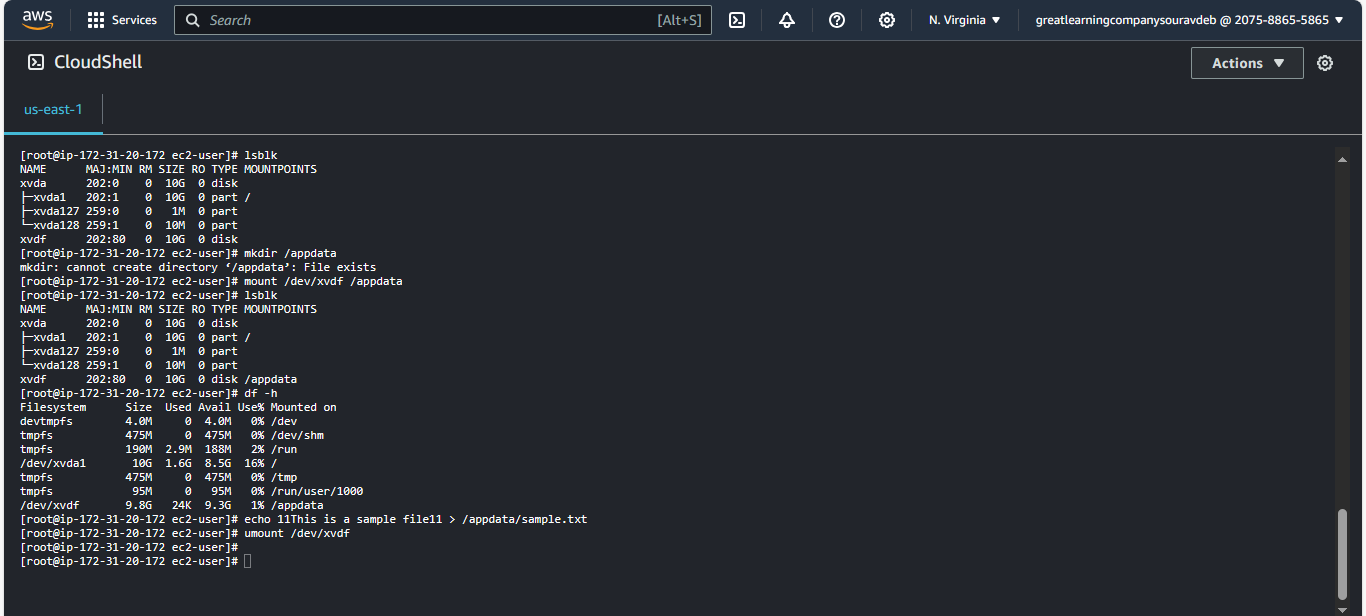
**3.c Format the volume and mount it**

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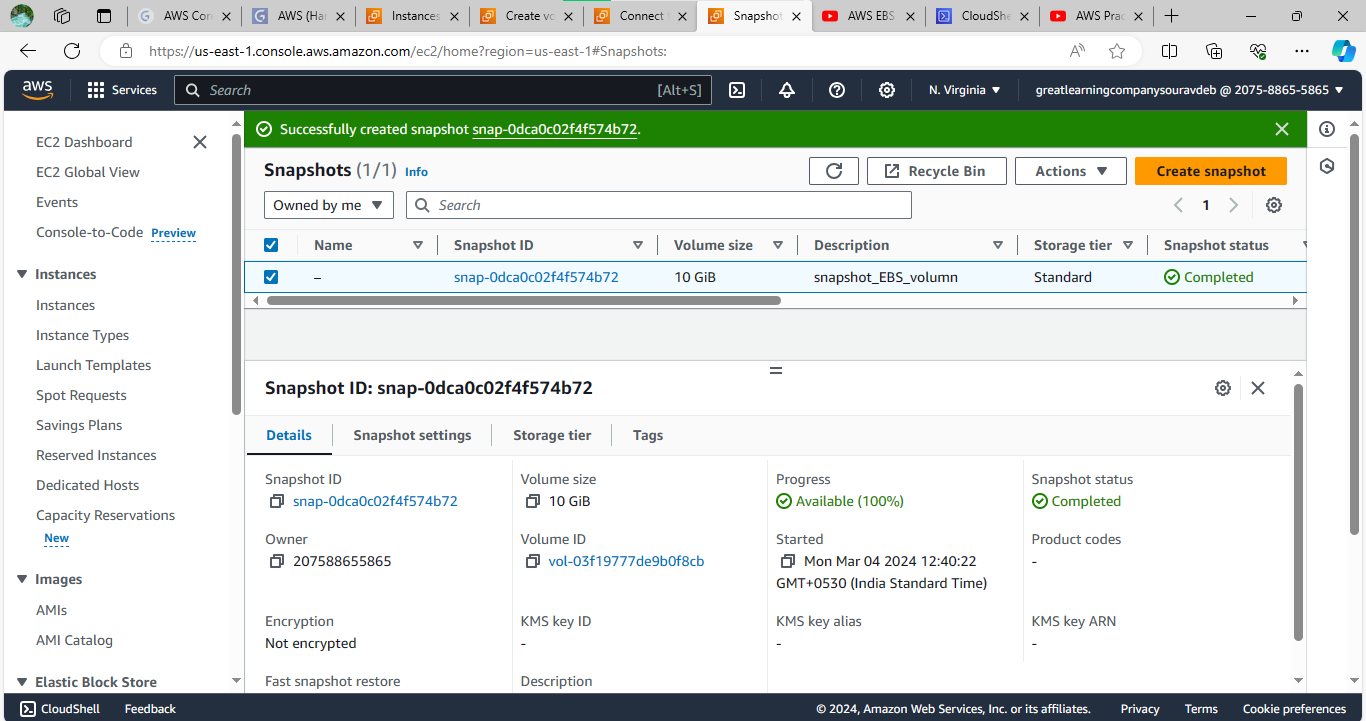
**3.d create a sample text file in the volume and to simulate data creation**

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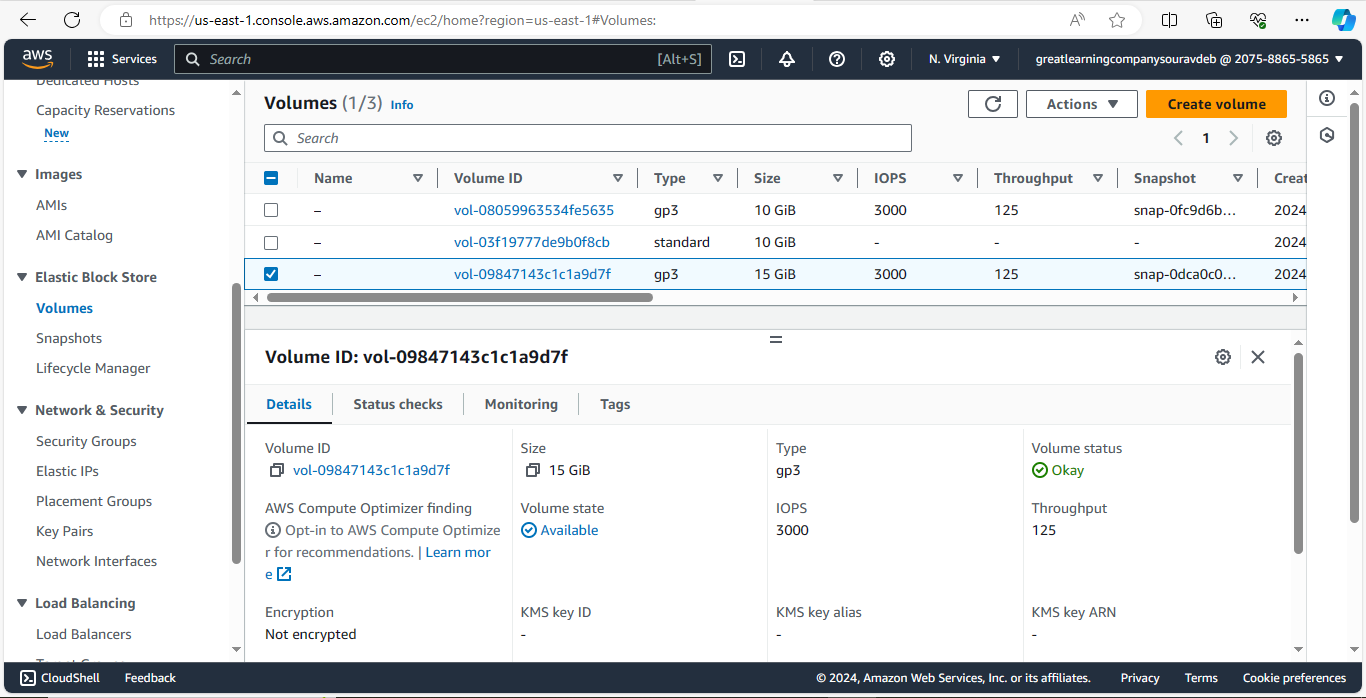
**3.e Unmount, detach the volume**

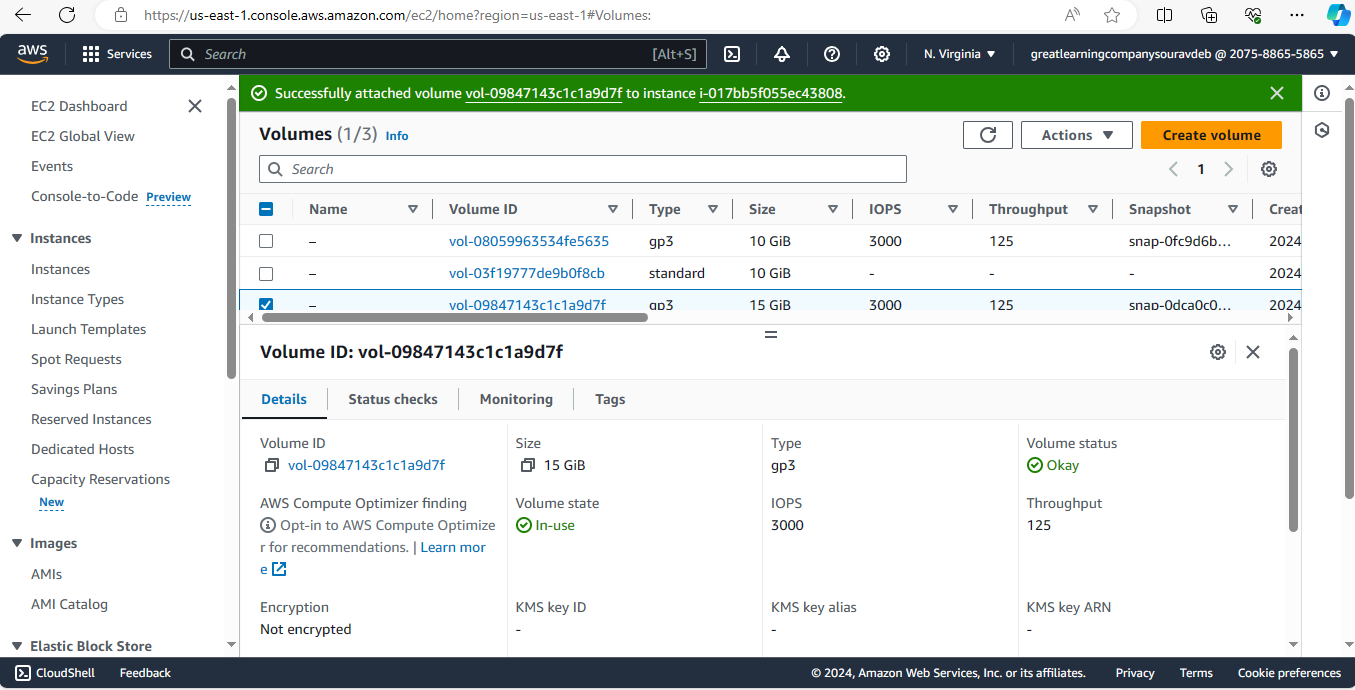
****

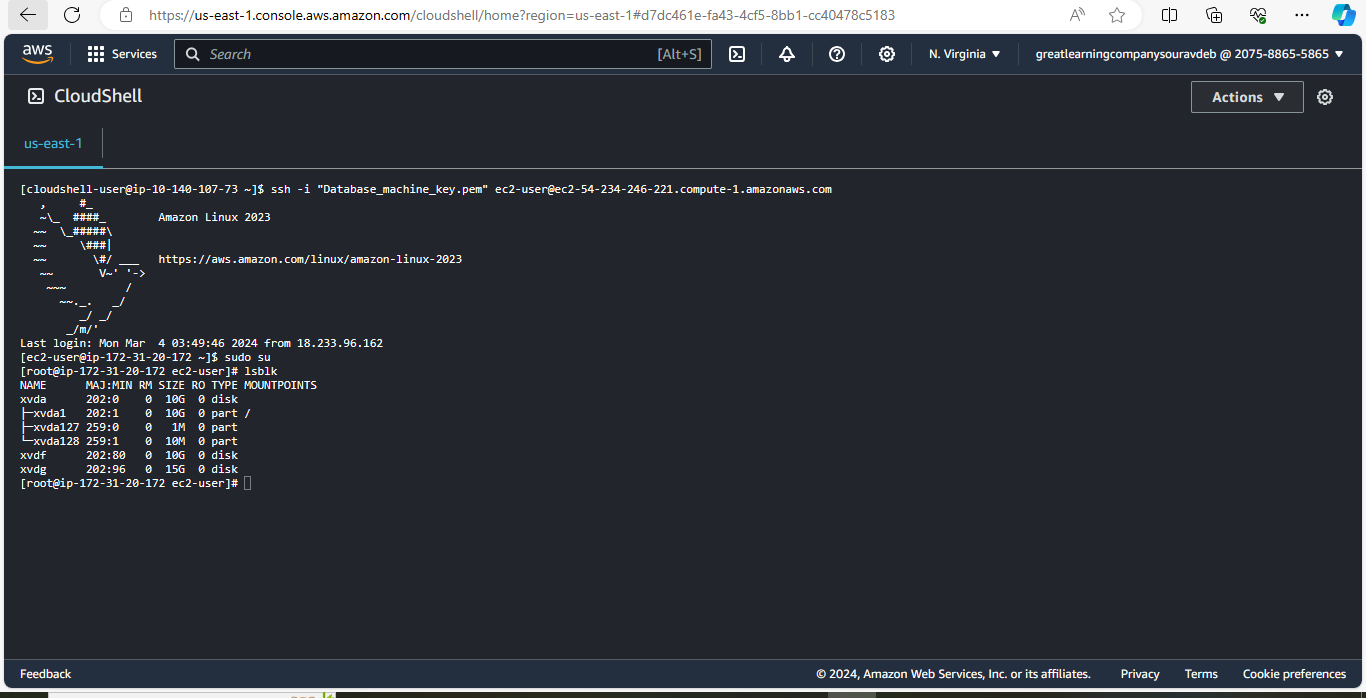
1. **a create a snapshot volume**

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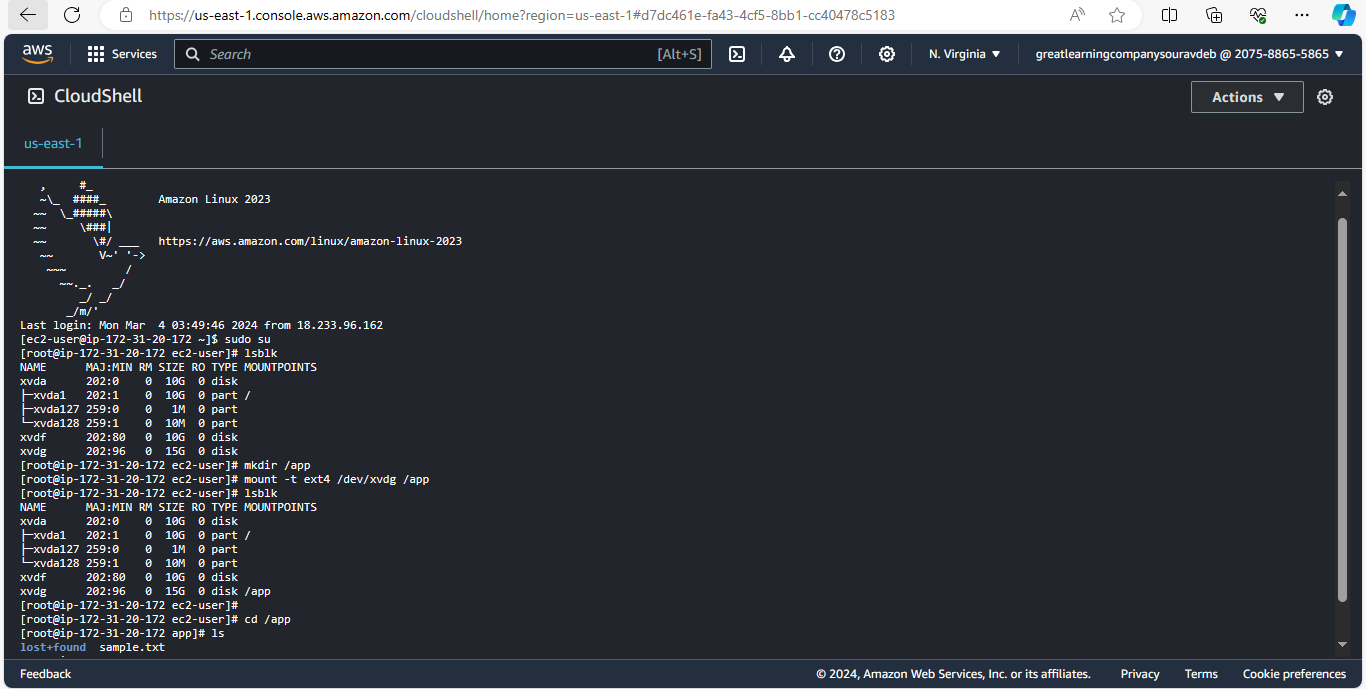
**4.b create new SSD volume 15GB**

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1. **c Attach, mount **

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**4.c check if data is there**

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