Case-Study-—-EC2-EBS-EFS

Problem Statement:

You work for XYZ Corporation. Your corporation is working on an application and they require secured web servers on Linux to launch the application.

Tasks To Be Performed:

1. Create an instance in the US-East-1 (N. Virginia) region with Linux OS and manage the requirement of web servers of your company using AMI.

2. Replicate the instance in the US-West-2 (Oregon) region.

3. Build two EBS volumes and attach them to the instance in the US-East-1 (N. Virginia) region.

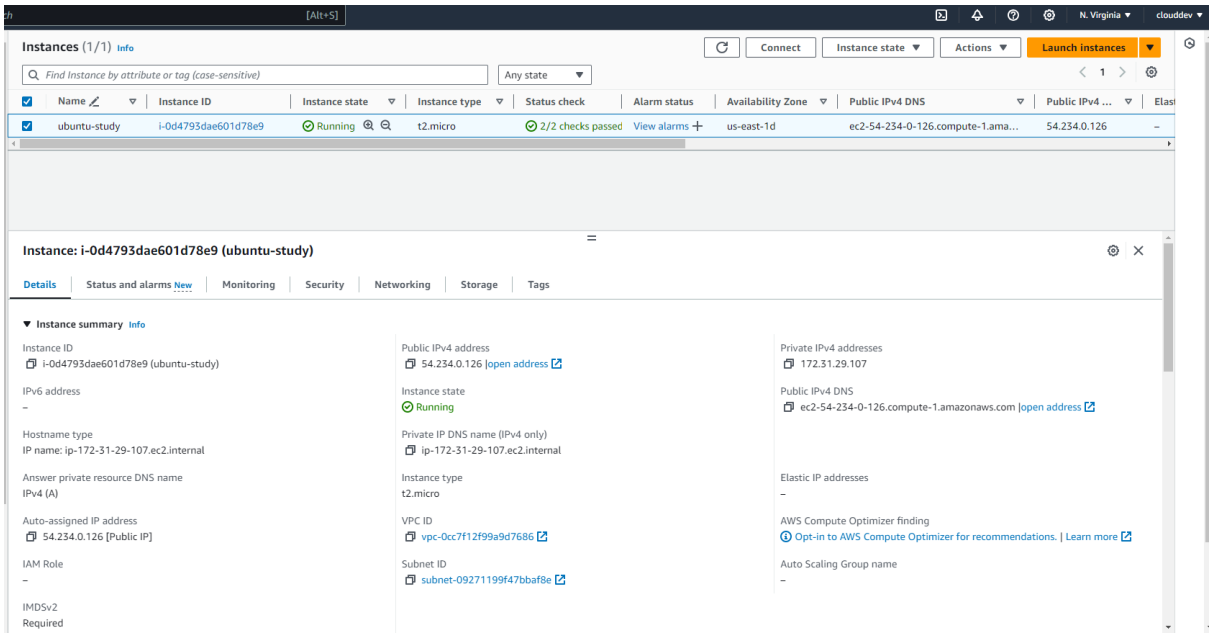
4. Delete one volume after detaching it and extend the size of the other volume.

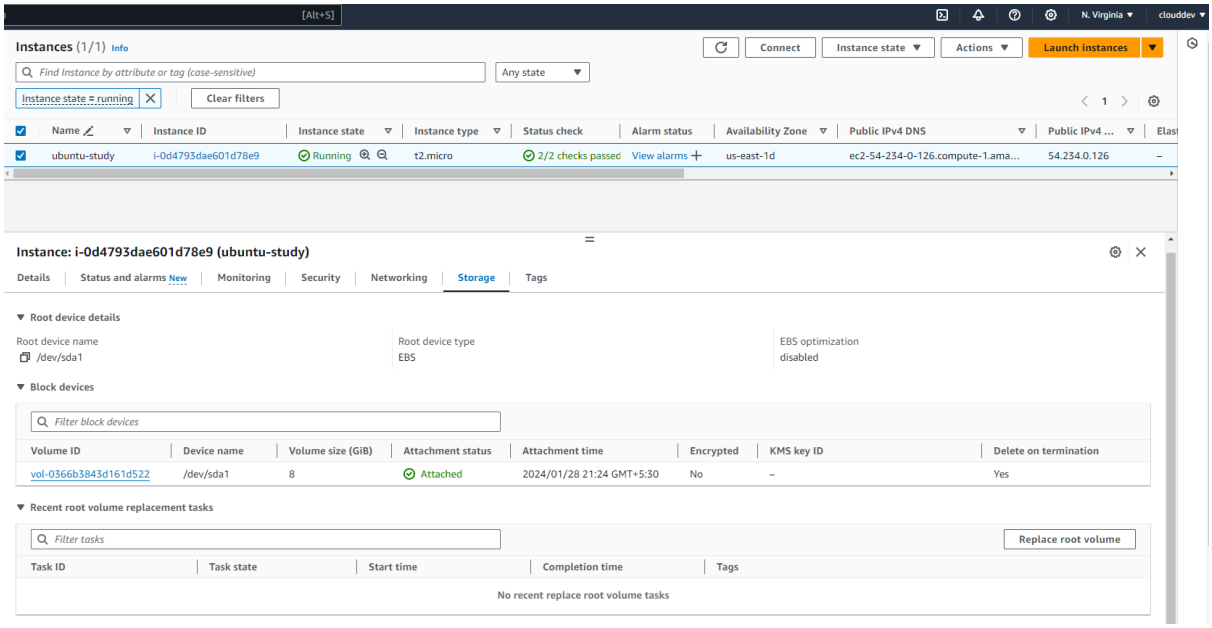
5. Take backup of this EBS volume.

Solution:

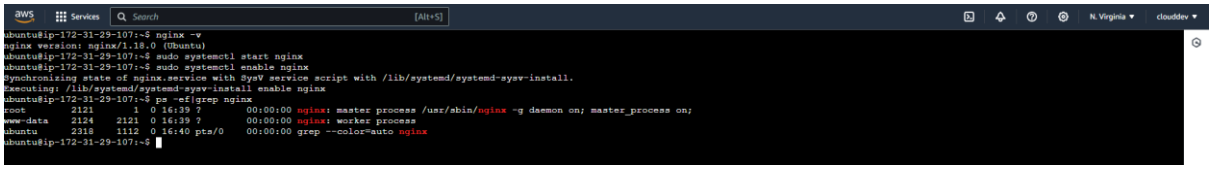
1. Creation of Ubuntu EC2 Instance in US-East-1 and configure

   a. Launch instance

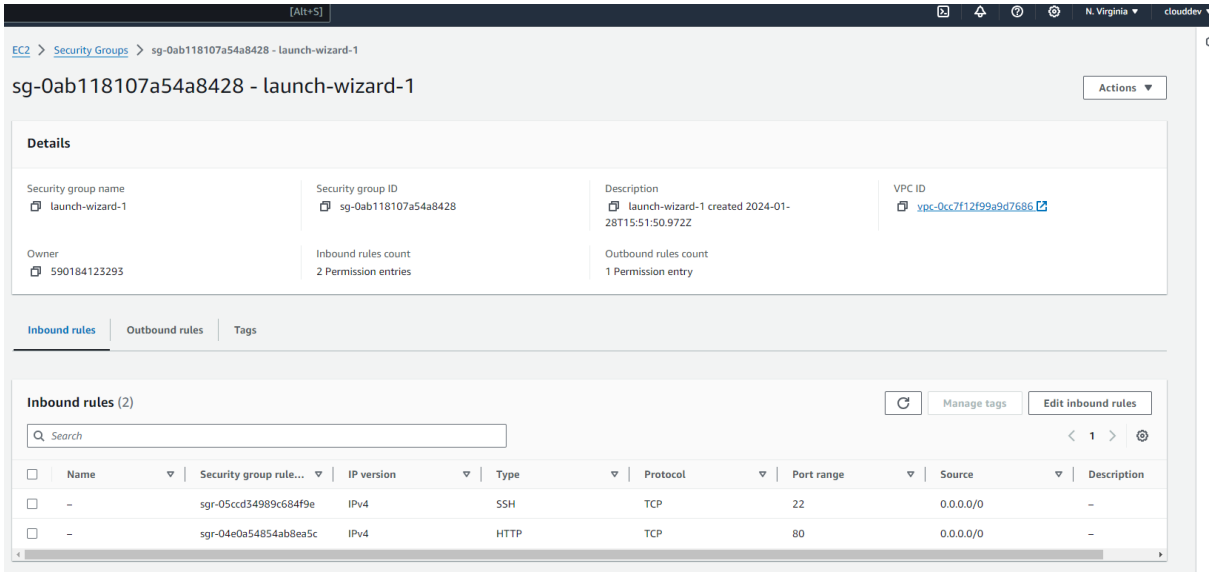




b. Install nginx webserver



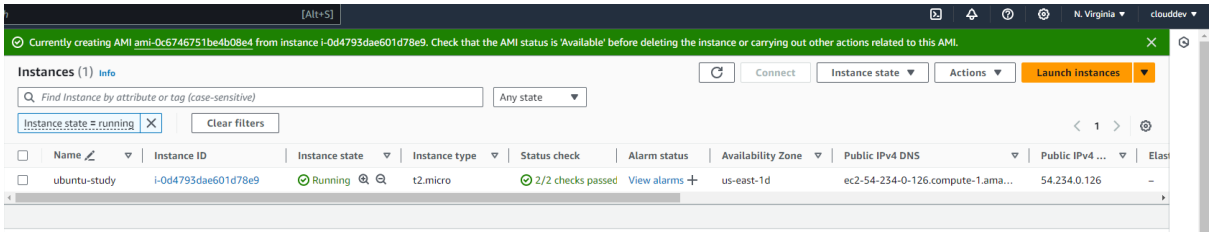
c. Security Group inbound rule

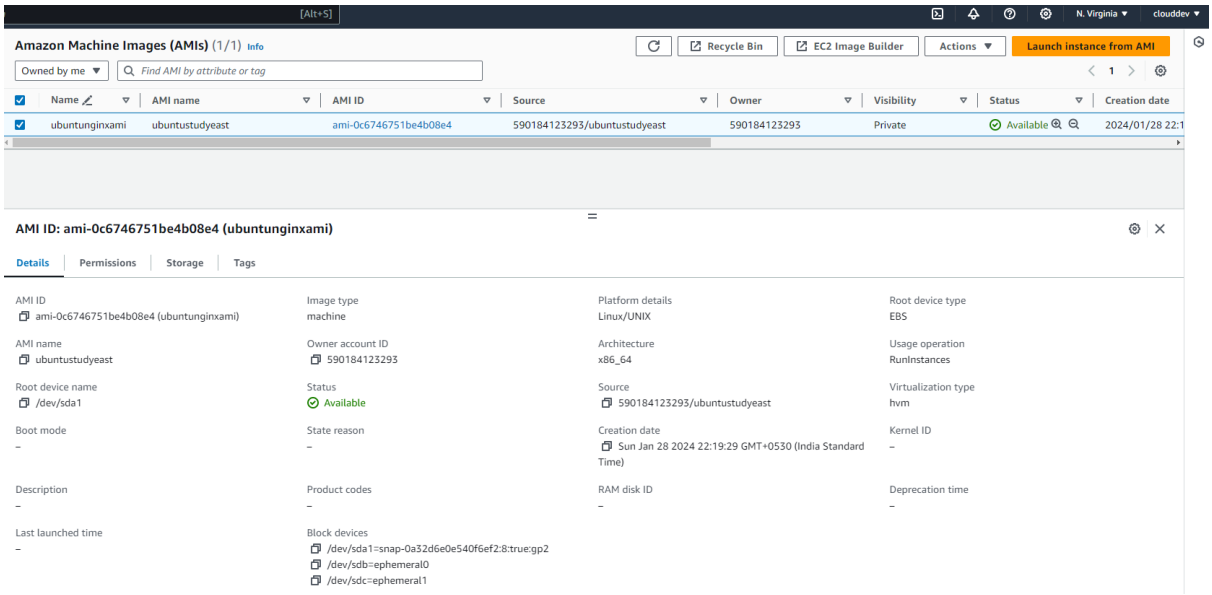


d. Launch webserver

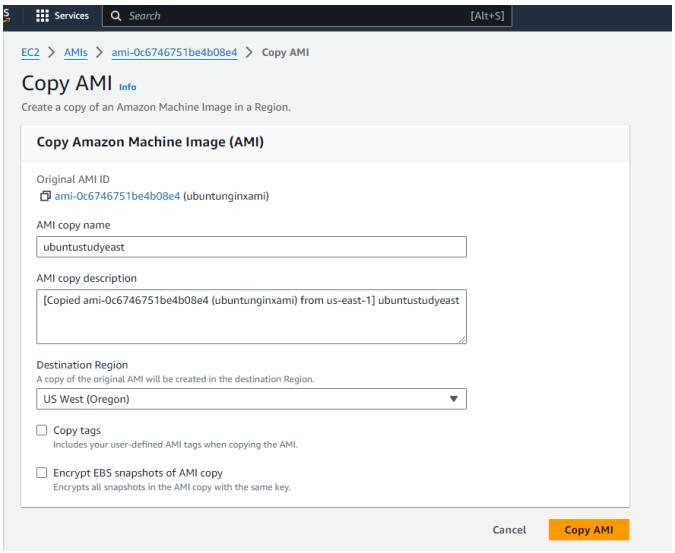
2. Replication of EC2 in US-West-2 and launch an instance

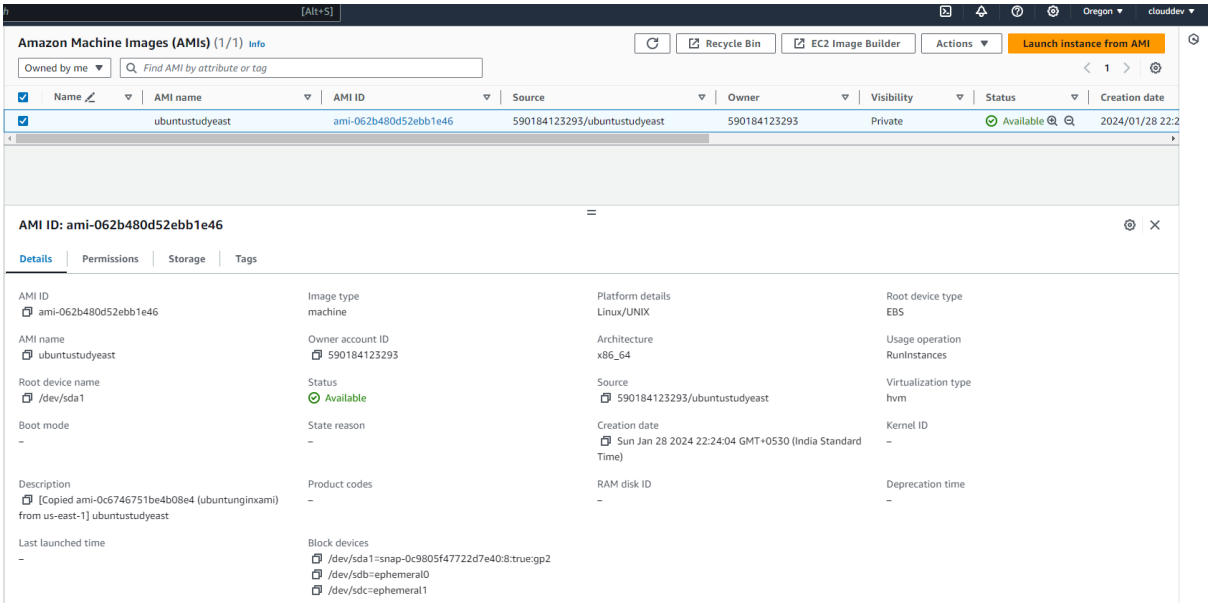
a. Create AMI of EC2 created in US-East-1



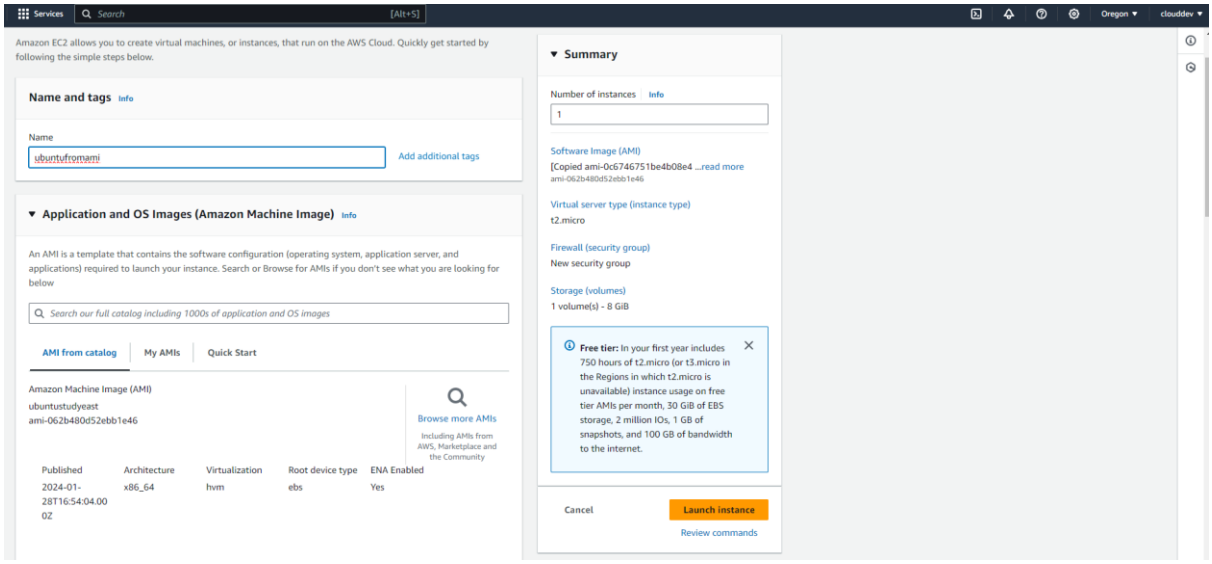


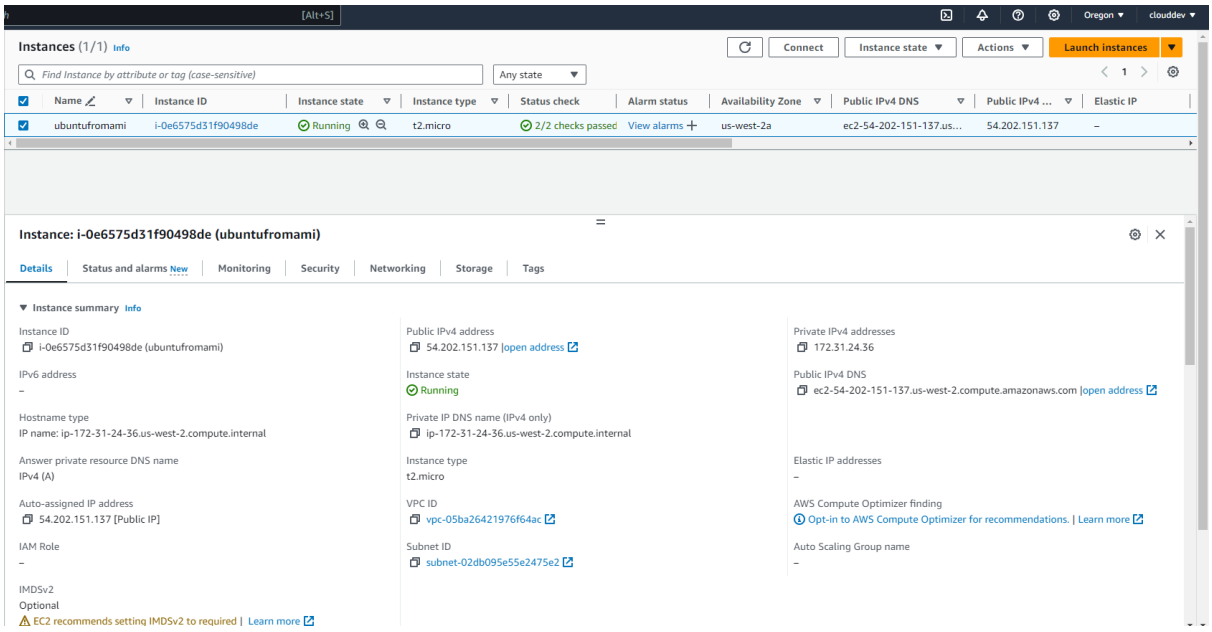
b. Copy the AMI to US-West-2 region

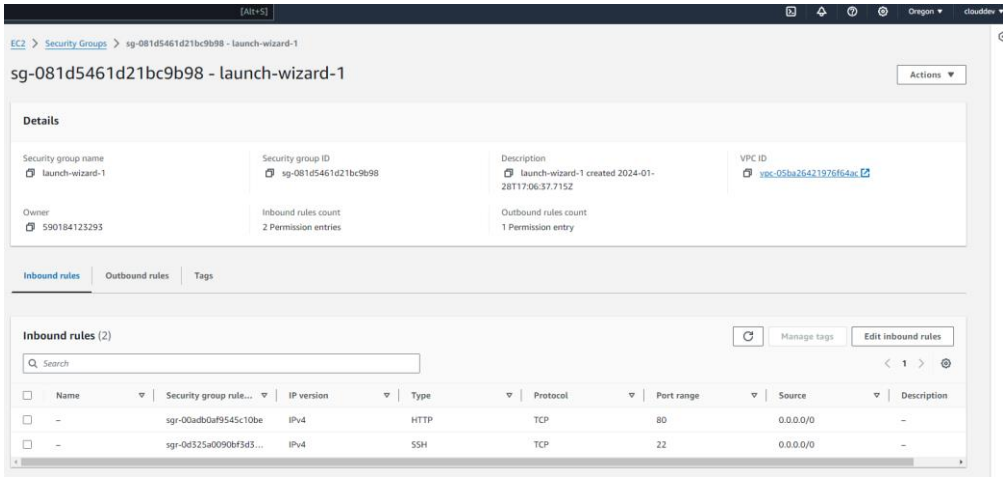




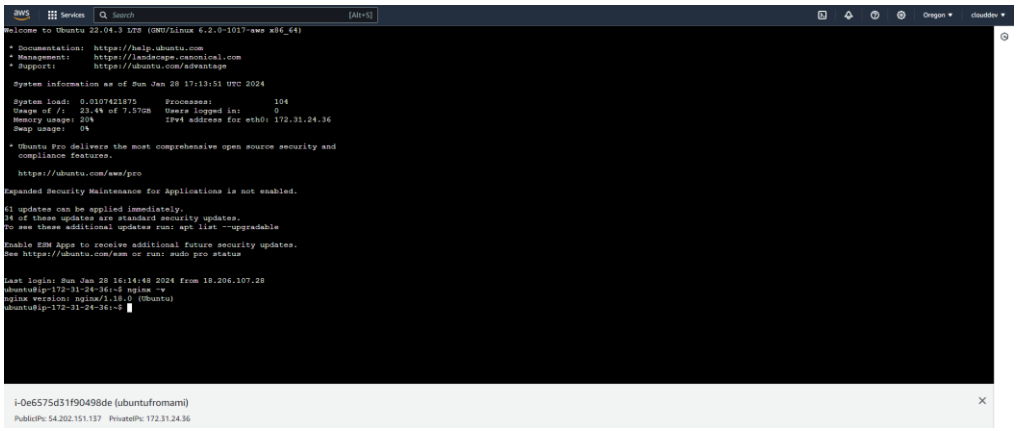
c. Launch instance from AMI

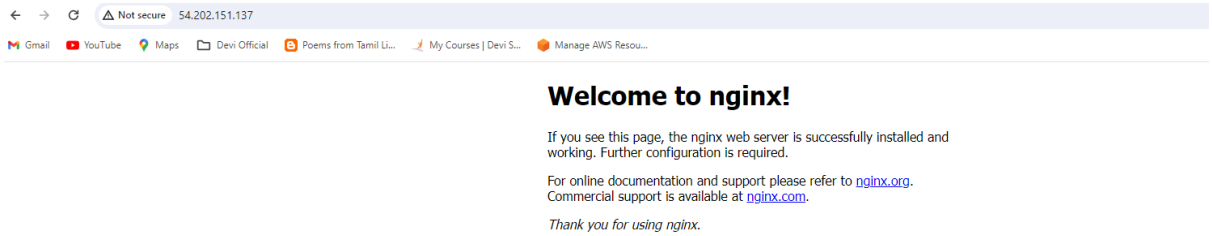




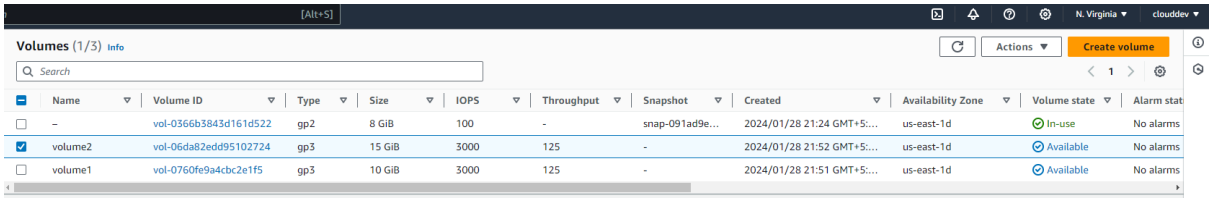


NGINX validation in US-West-2

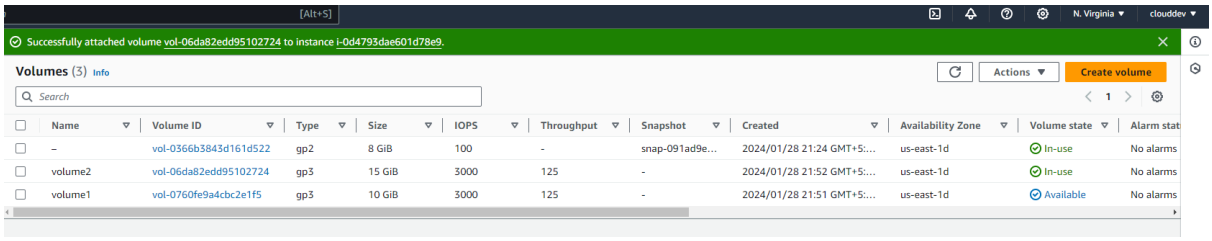


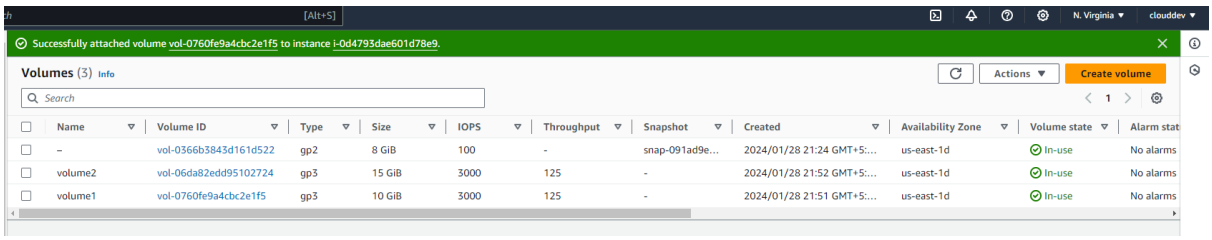


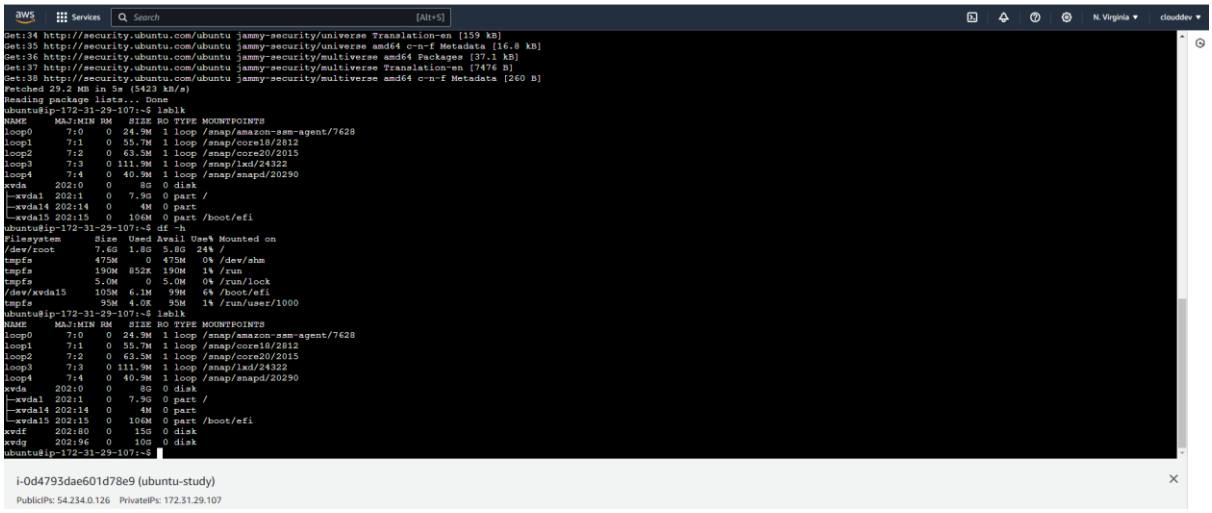
3. Create EBS volume 1 & volume 2. Attach & Mount to EC2 (Us-east-1)
   a. Volume creation



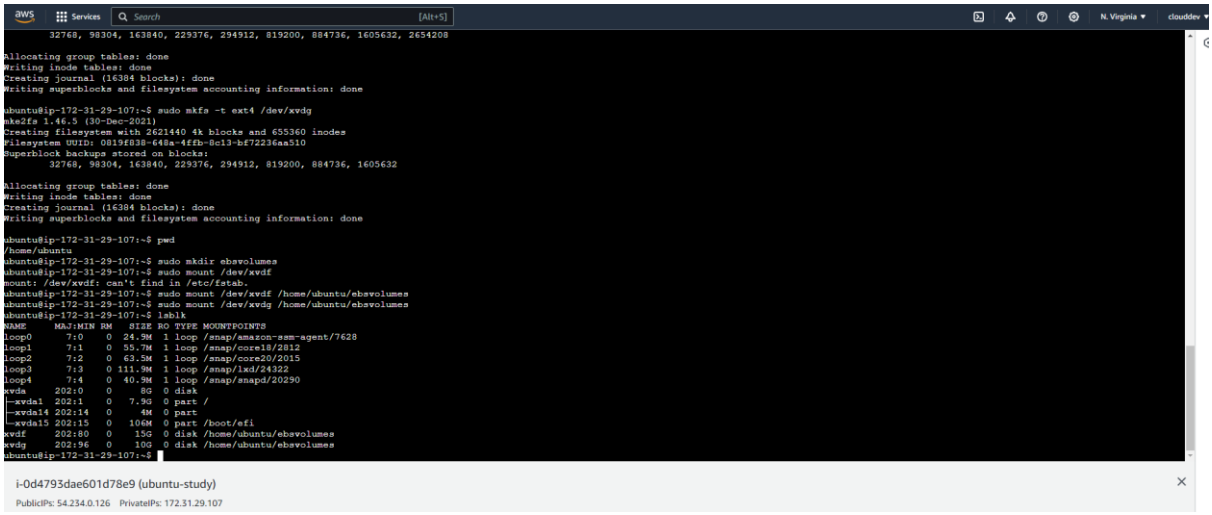
   b. Attach volume

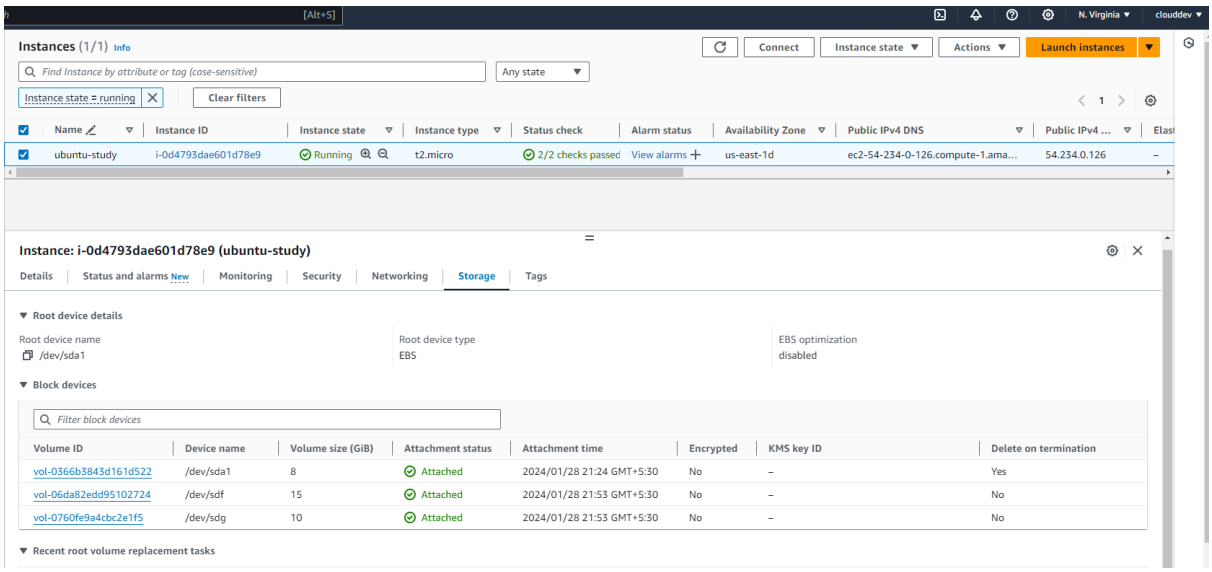




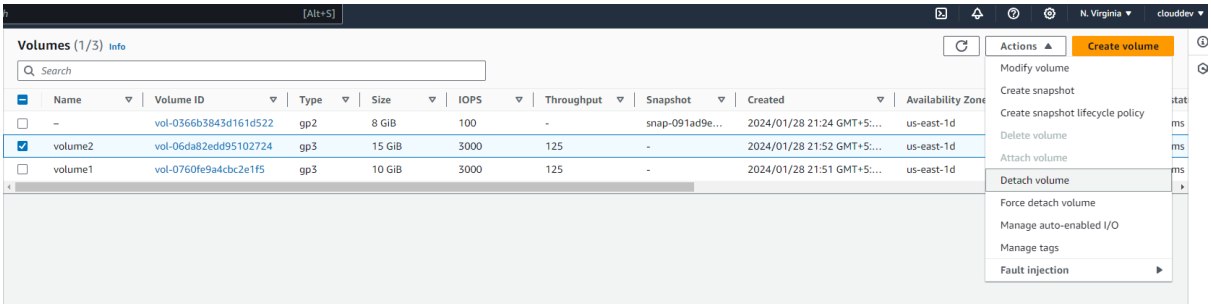


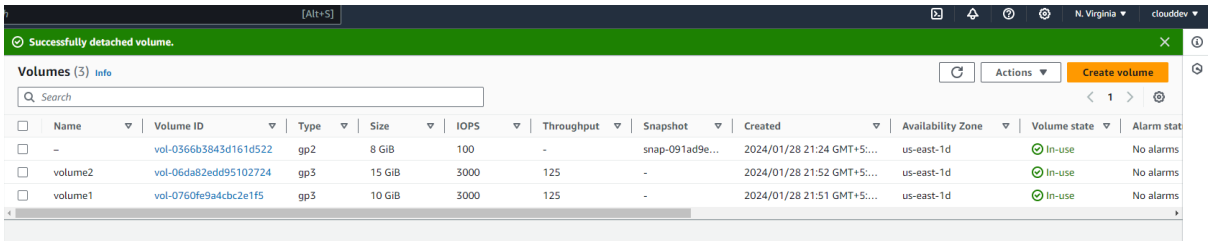
c. Mount volume

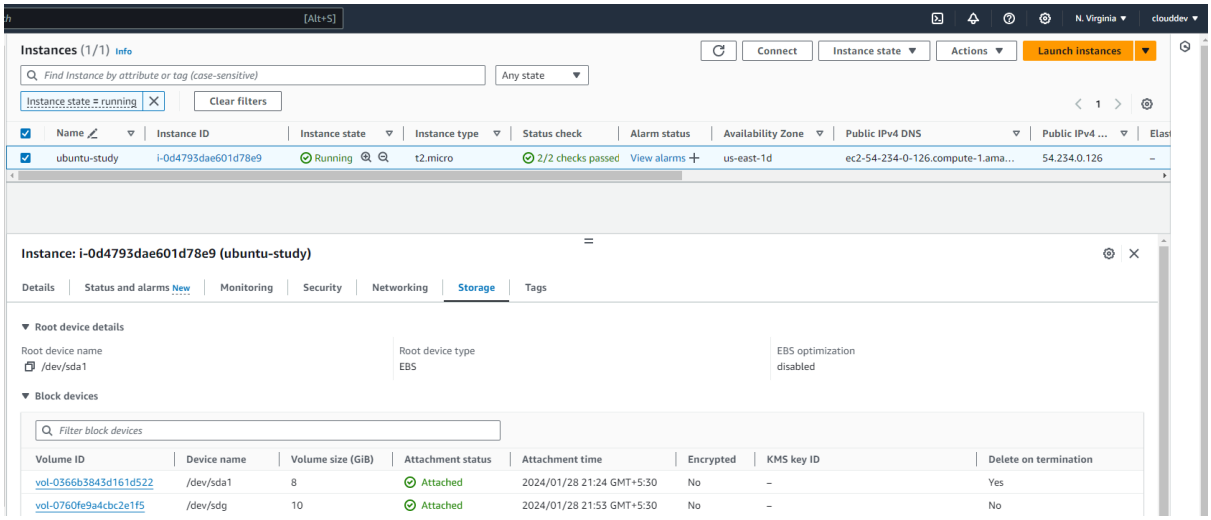




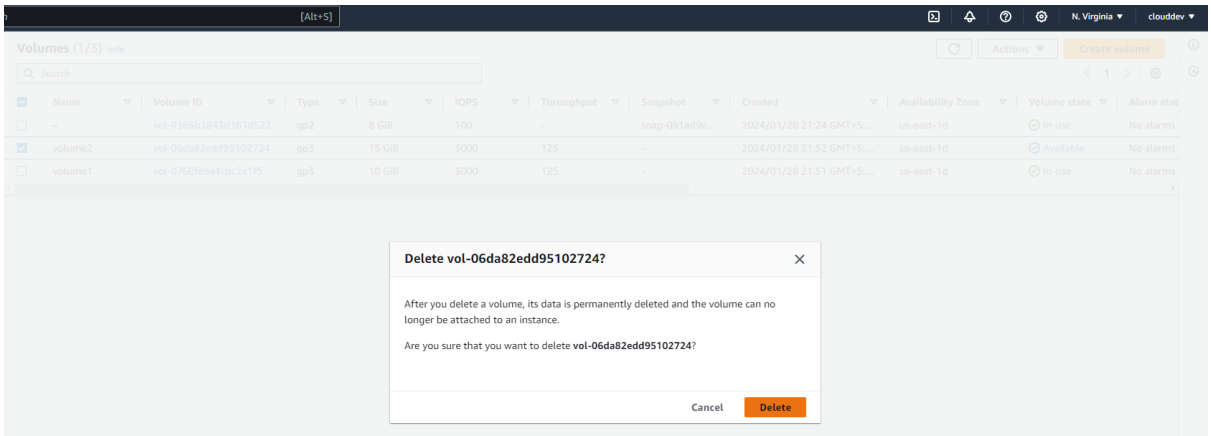
4. Delete Volume 2 and resize Volume 1
   a. Detach & delete volume2



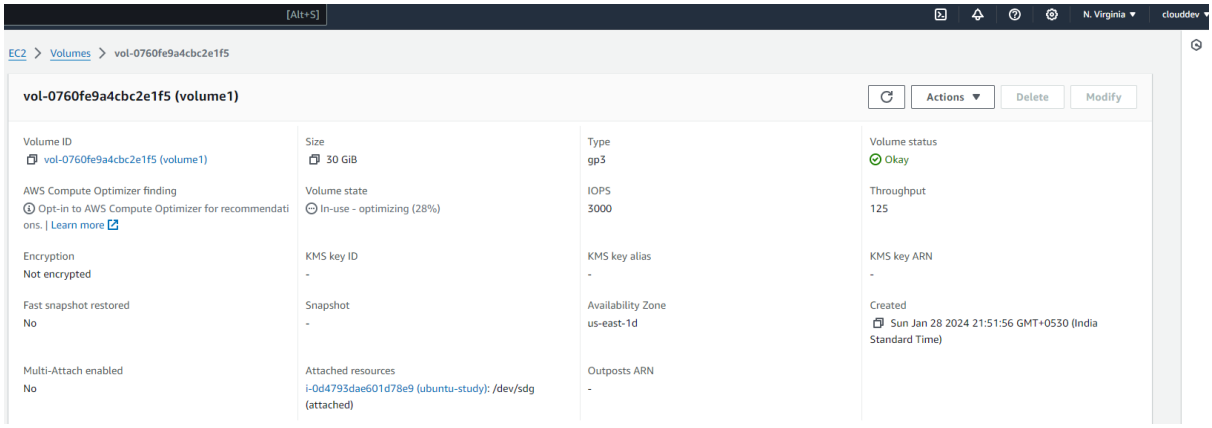


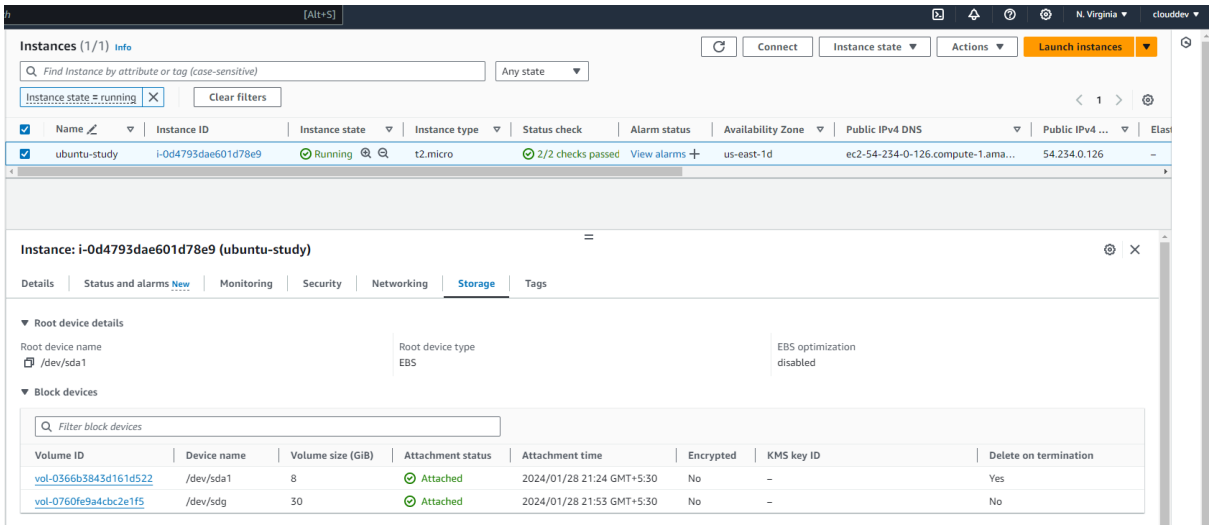


DELETE VOLUME2

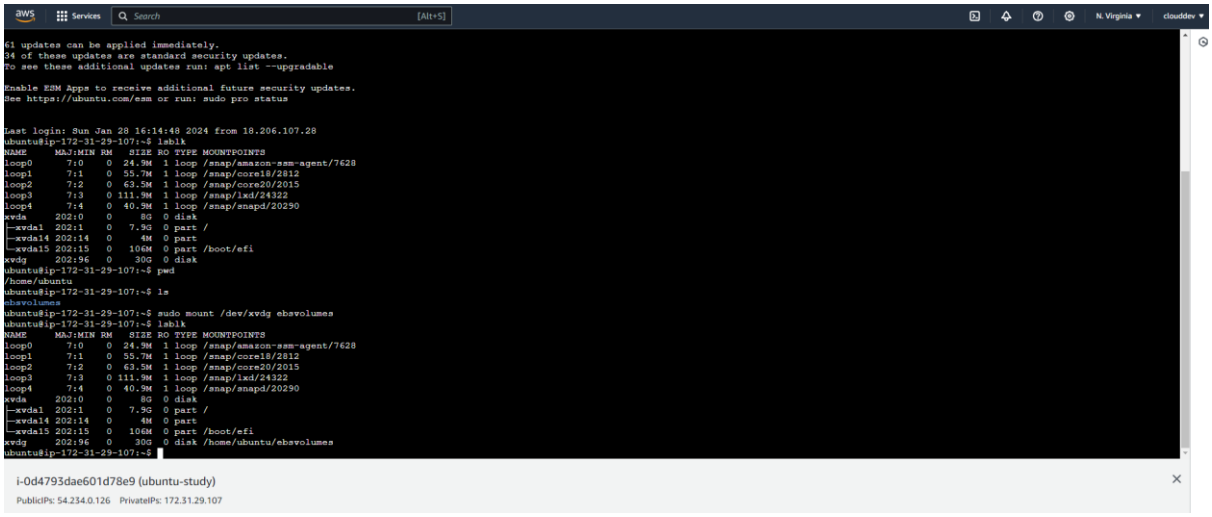


b. Resize volume1 to 30 GB and mount

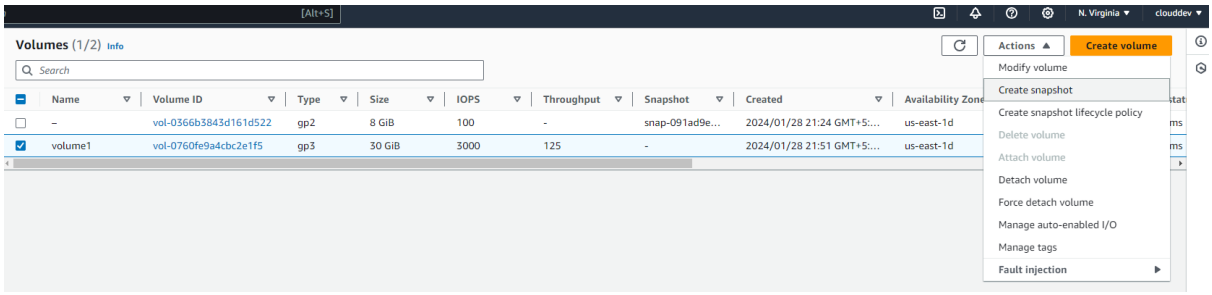


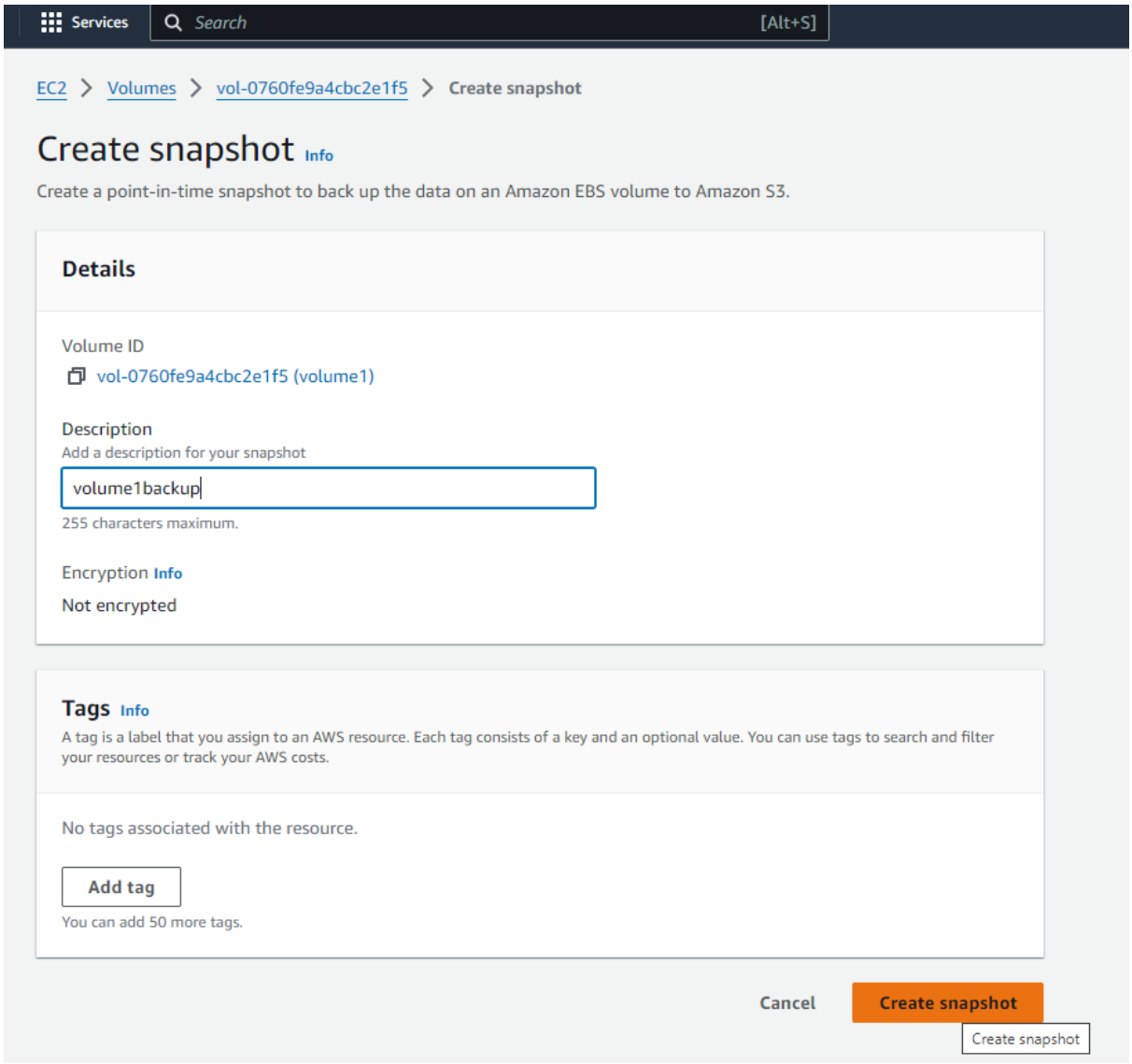


RESIZED VOLUME MOUNTED



5. Create Snapshot of EBS Volume 1





SNAPSHOT created for backup