

Name: Tushar Panchal

En.No: 21162101014

Sub: CCE(Cloud Computing Essentials)

Branch: CBA

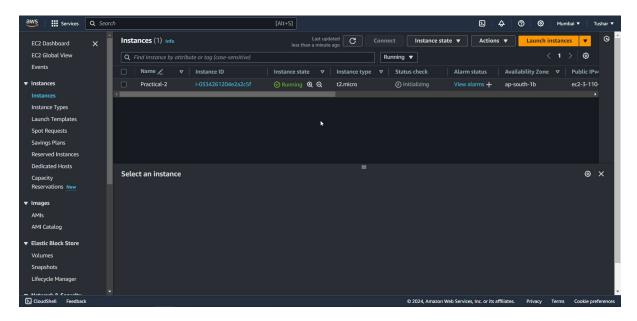
Batch:71

Andi is an IT Administrator of Pixel group Pvt limited is organized and wants to be adopted as IAAS using AWS cloud solution. Their majority of clients are e-commerce and OTP service providers. Initially, they want to set up one virtual windows server using Amazon EC2 which can be resizable and provide compute capacity along with a web-scale cloud computing solution. Andi is planning to create IAAS as below for E-Commerce clients.

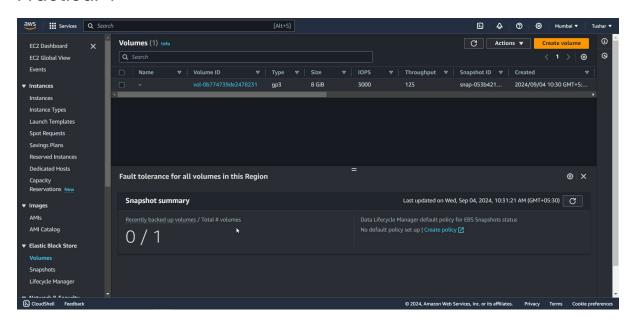
After 6-month Andi realized that they needed more cloud storage with an elastic, high performance block storage service. Design for EC2 machine due you to increase web traffic on their e-commerce client.

- Create an Amazon EBS volume
- Attach and mount your volume to an EC2 instance
- Create a snapshot of your volume
- Create a new volume from your snapshot
- Attach and mount the new volume to your EC2 instance
- Copy the snapshot to another region.
- How to create AMI from EC2
- How to copy AMI into another Account and Recreate EC2
- How to Attach Root Volume with another EC2 Instance.

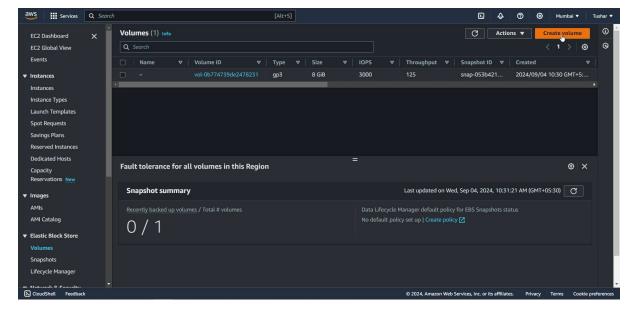
Create an Amazon EBS Volume.



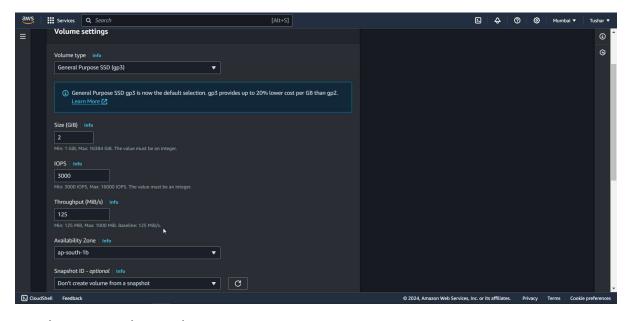
Firstly you have to create a new instance in EC2 as done in Practical-1



Now we have to Create a new volume From Elastic Block Store

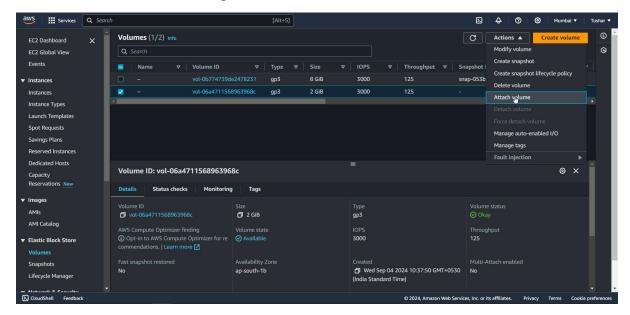


Set the volume size as 2 GB

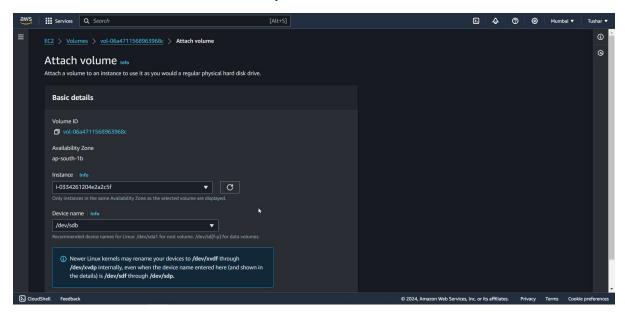


And create the volume

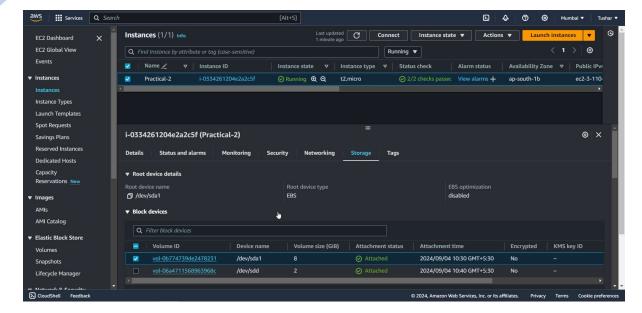
Attach and mount your volume to an EC2 instance.



Now the attach the Volume you created

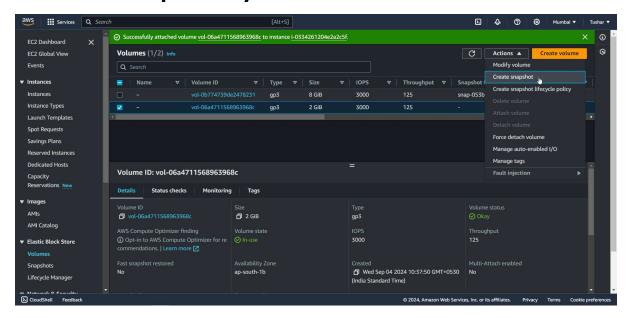


Here you have to select the instance which you have Created in starting and device name as a path and attach it



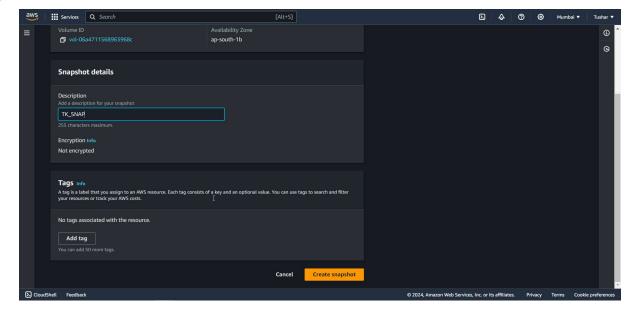
As you can see the attached volume in storage part.

Create a snapshot of your volume.

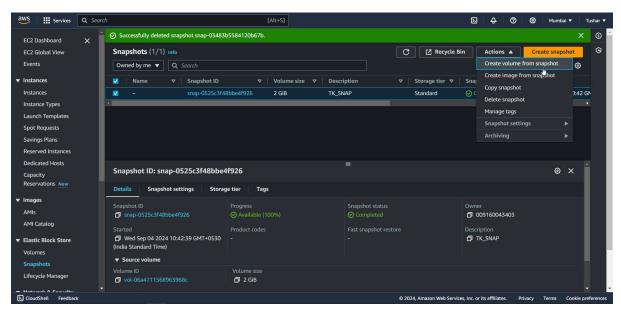


Now we have to Create the snapshot of the volume we have created

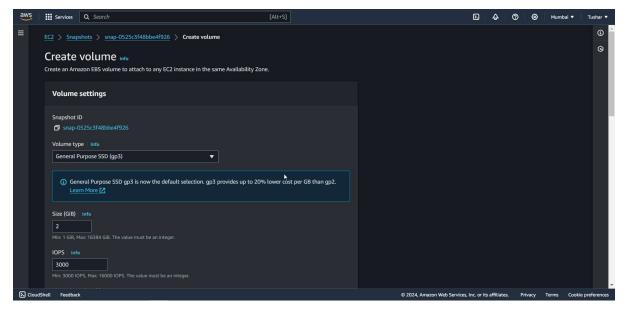
Name it and Create the snapshot



Create a new volume from your snapshot.

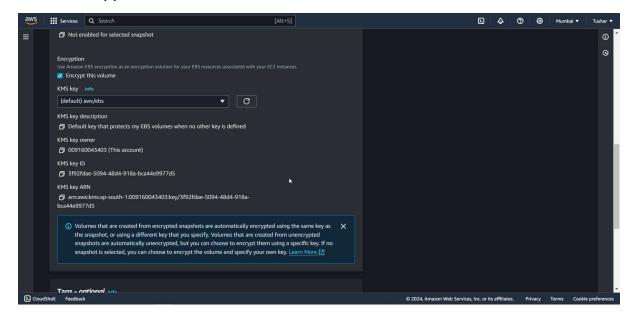


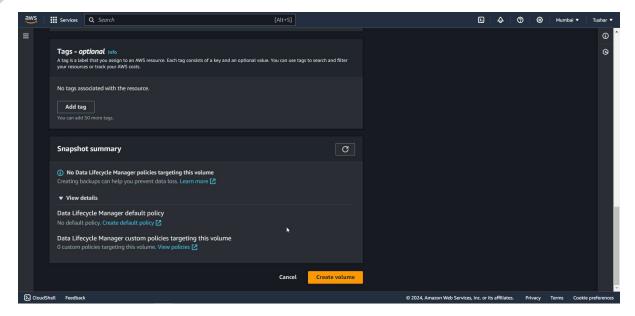
Now we have to Create the volume from the Snapshot you have created



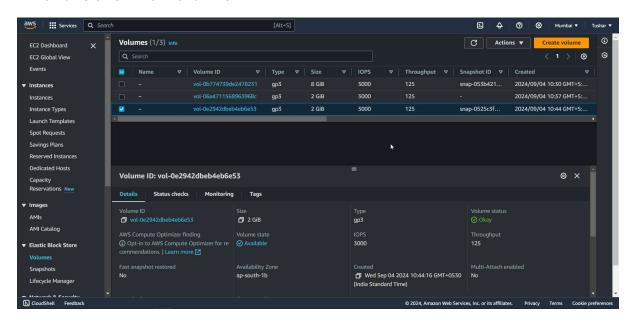
Select the Size as 2Gb

And encrypt the volume



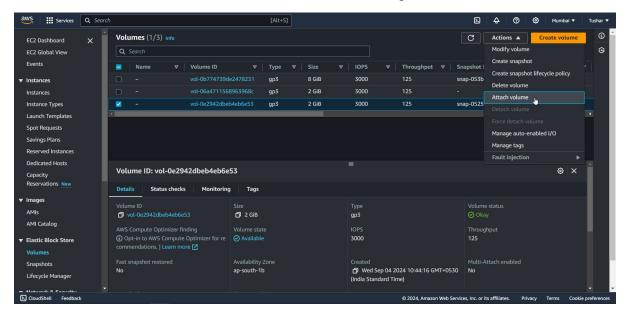


And Create the volume

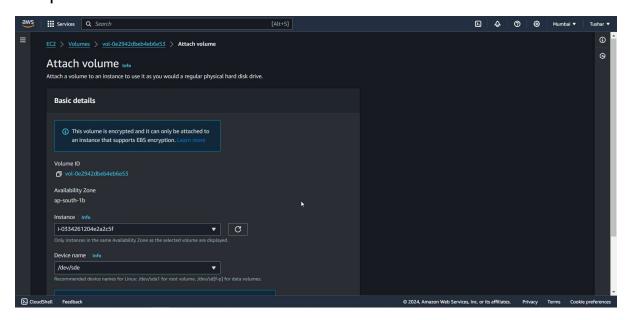


Now you can see the new Volume Created from the snapshot.

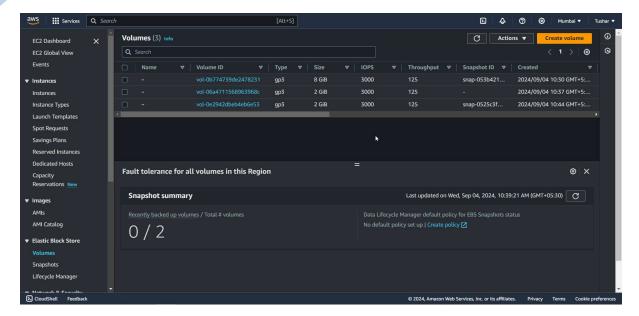
Attach and mount the new volume to your EC2 instance.



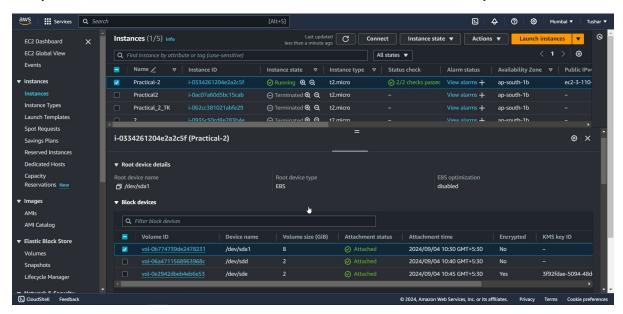
Now we have to attach the volume we have created from the snapshot to the Ec2



You have to attach the volume

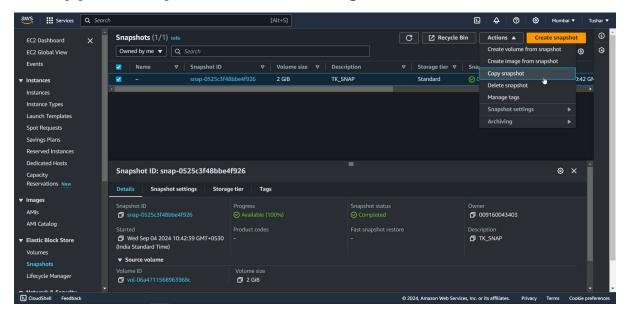


As you can see the volume is attached successfully

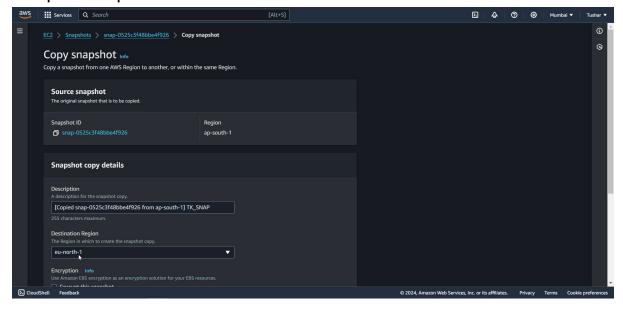


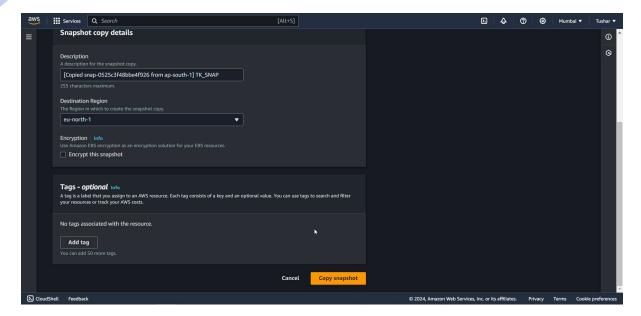
As you can see the volume is created

Copy the snapshot to another region.

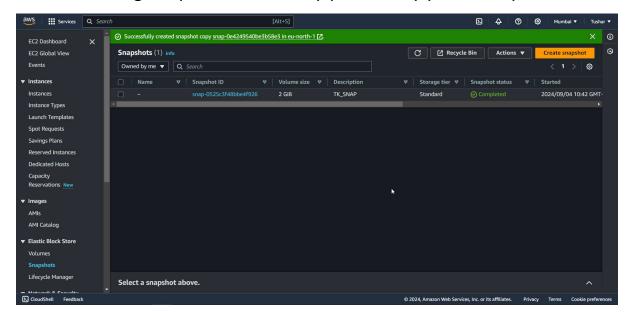


Now we have to copy the snapshot to another region using copy snapshot option.

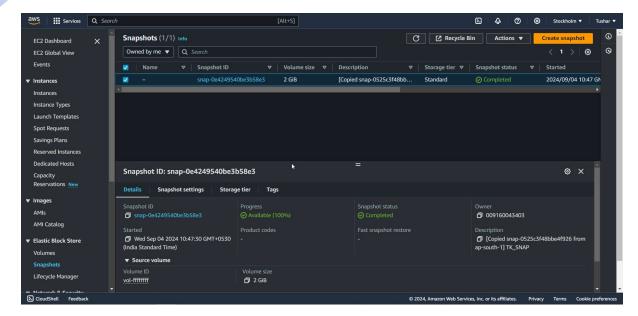




Select the region you have to copy .and copy the snapshot

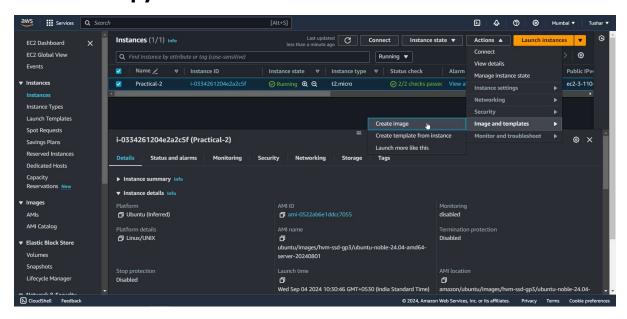


As you can see the success message of snapshot created

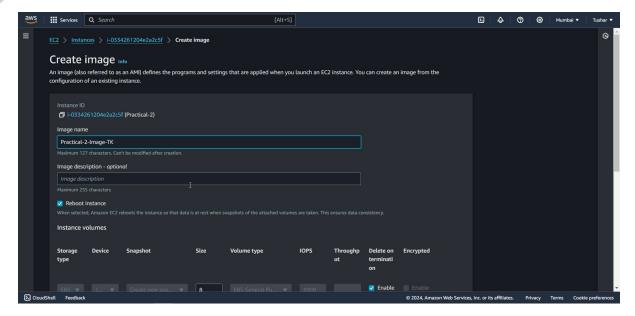


Here you can see the snapshot is created in the Stockholm region.

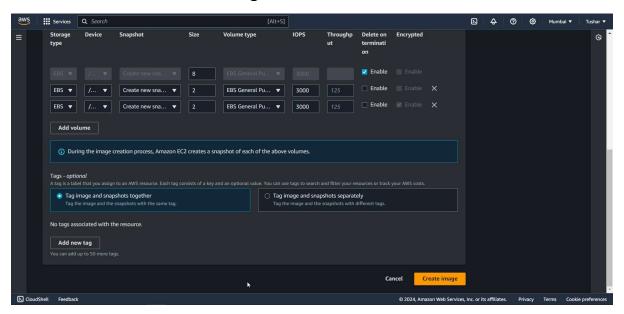
How to copy AMI into another Account and Recreate EC2:



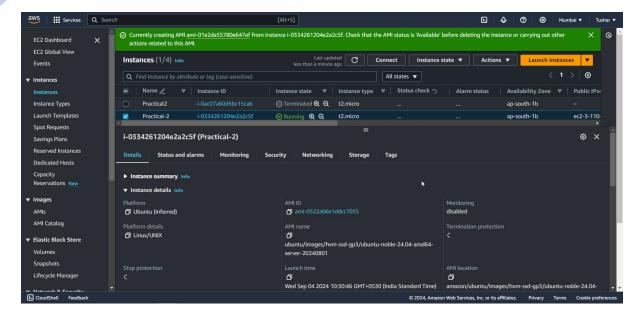
Now you have to create the image of the instance.



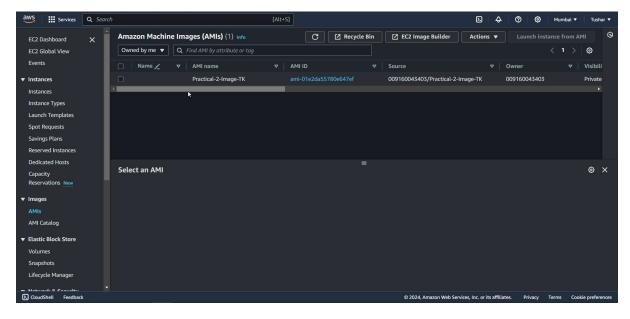
Give the name of the image and create it



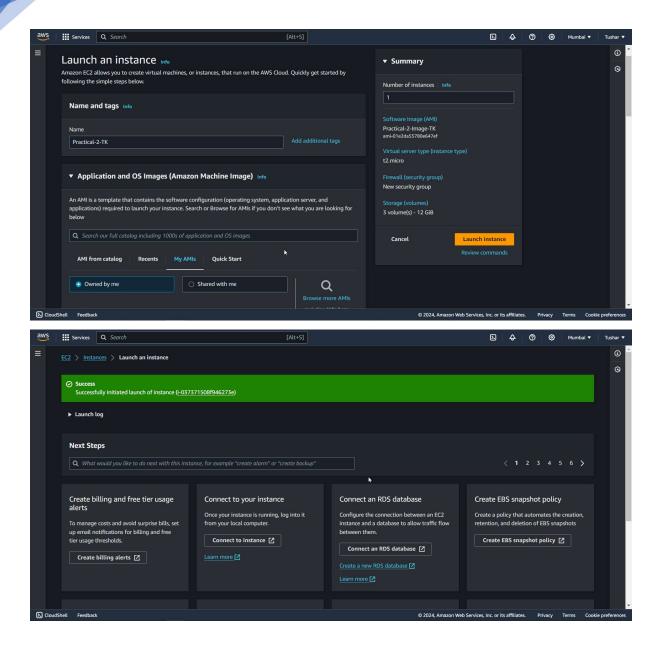
Create the image.

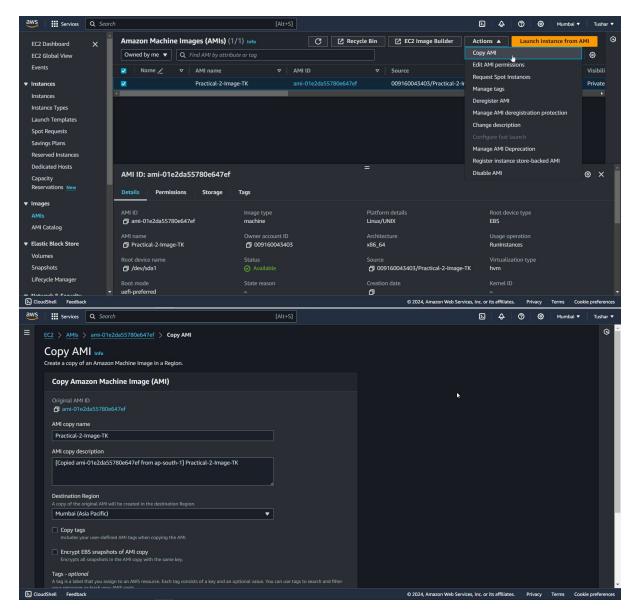


Now go to launch the instance from AMI



Now you can launch the image as you can see but Don't launch the instance as it is chargeable





This is for To copy the image you the option in action in AMI you can copy the image in any region you want but you don't have to copy the image as it also chargeable.