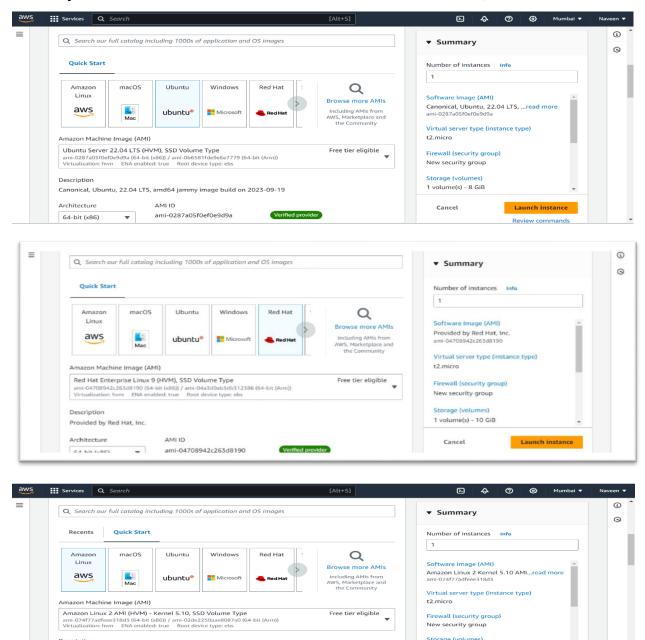
# Tasks to Be Performed: (Introduction to EC2,EBS,EFS)

Create an EFS and Connect to 3 different EC2 instance. Make sure that all instances have different operating systems. For instance, Ubuntu, Red Hat Linux and Amazon Linux 2

## **Steps:**

- Create 3 EC2 instance with different operating system (Instance operating system are Ubuntu, Red Hat Linux and Amazon Linux 2)



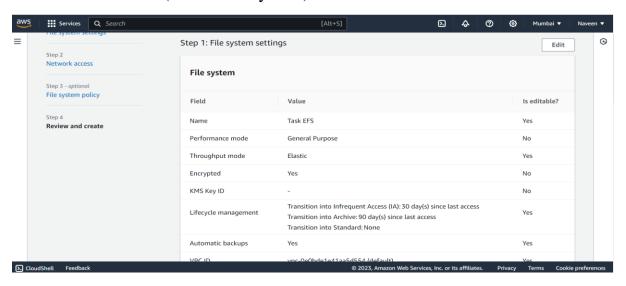
Amazon Linux 2 Kernel 5.10 AMI 2.0.20231206.0 x86 64 HVM gp2

64-bit (x86)

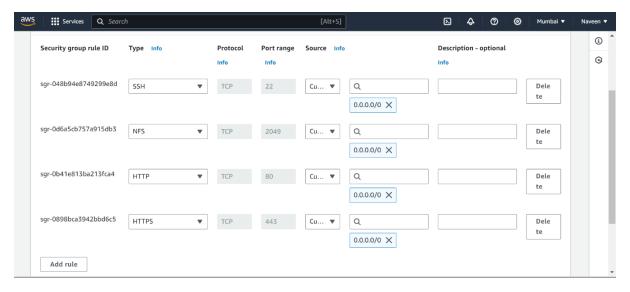
ami-074f77adfeee318d3

1 volume(s) - 8 GiB

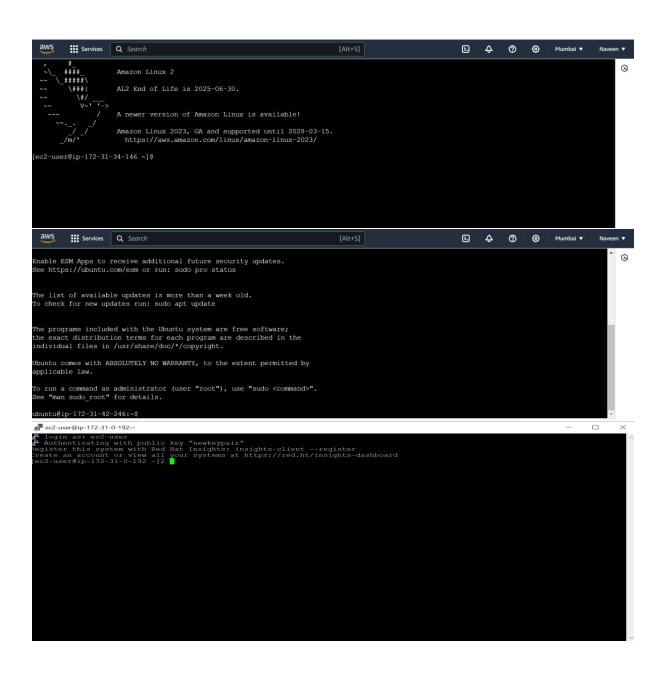
- Create a EFS (elastic file system)

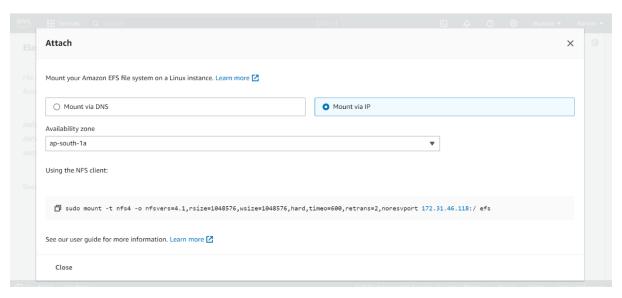


- Edit Inbound security rules by adding NFS port 2049

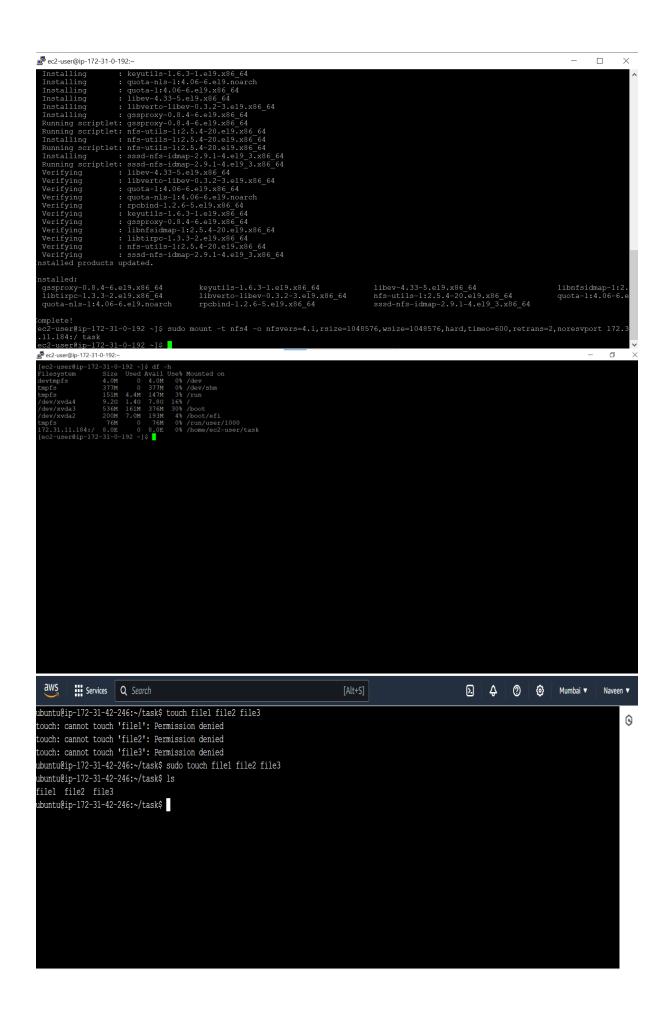


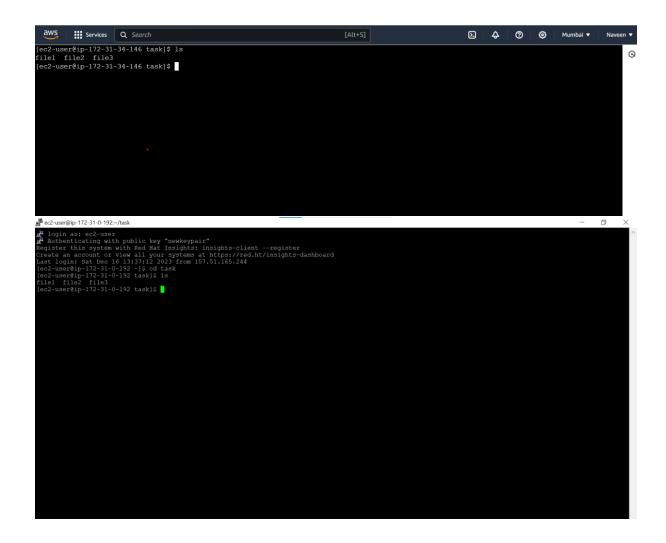
- Connect to all Three EC2 instance
- Update the EC2 and Install NFS client
- Create a directory and EFS click attach and Mount your instance and add the Directory name
- Check the EFS have mounted by running a common **df** –**h**
- Create a file in any one of the instance by Enter into the directory
- Enter into other two directory. The files with are created in the first instance will reflect in the other two instance











### **Problem Statement:**

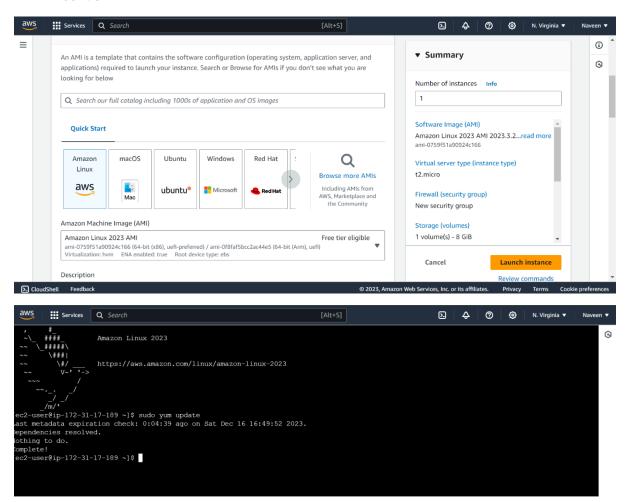
You work for XYZ Corporation. Your corporation is working on an application and they require secured web servers on Linux to launch the application.

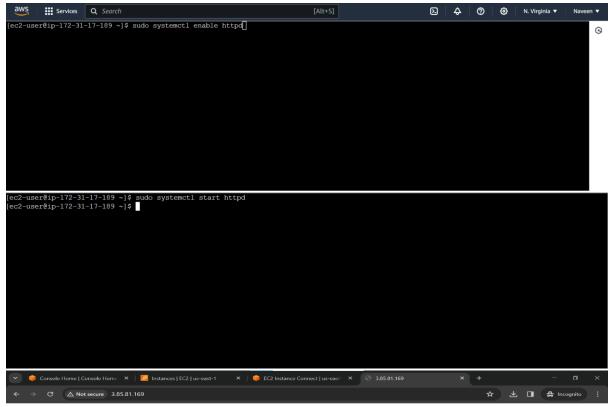
## Tasks to be performed:

- 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 volume 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.

### **Steps:**

- Create a Linux instance in US-East-1 (N. Verginia) region and host a web server

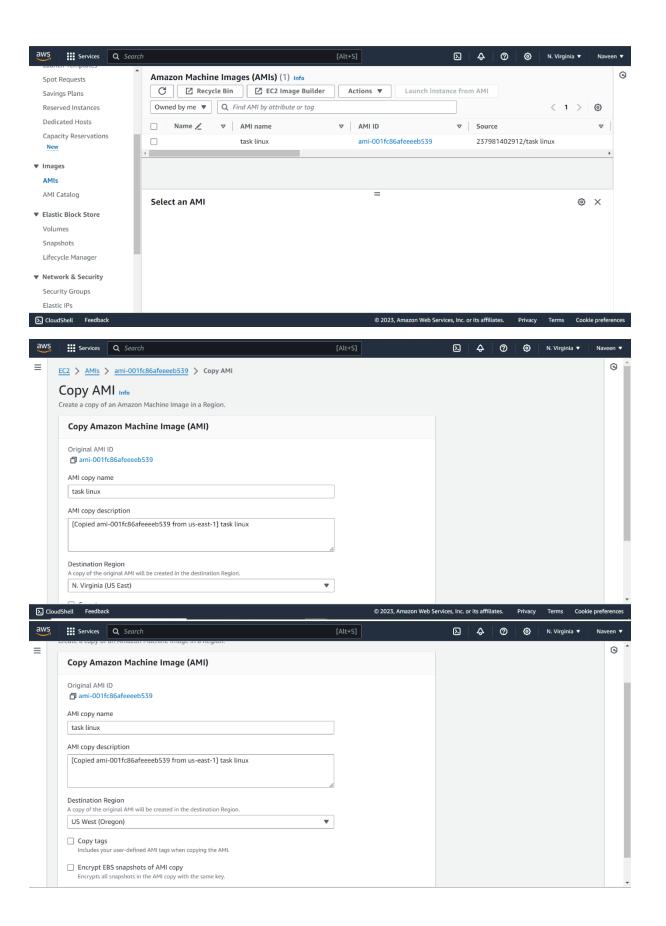


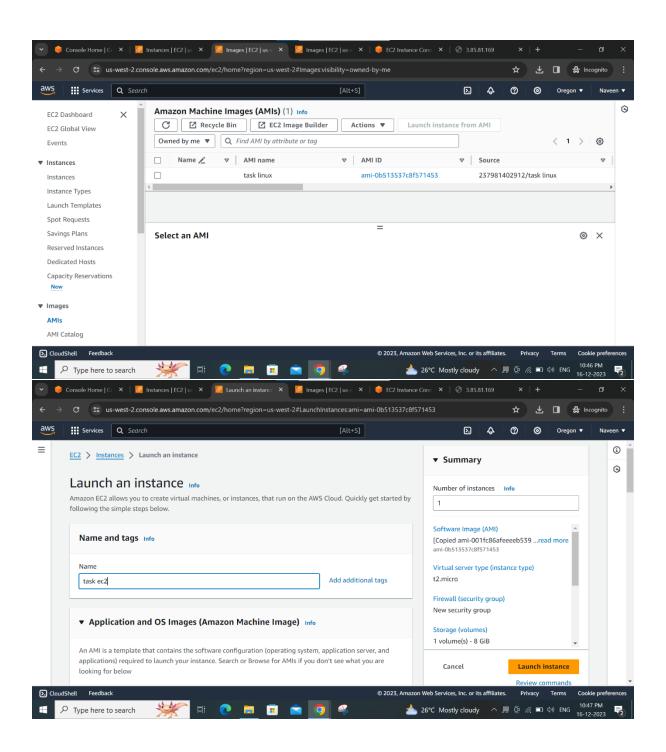


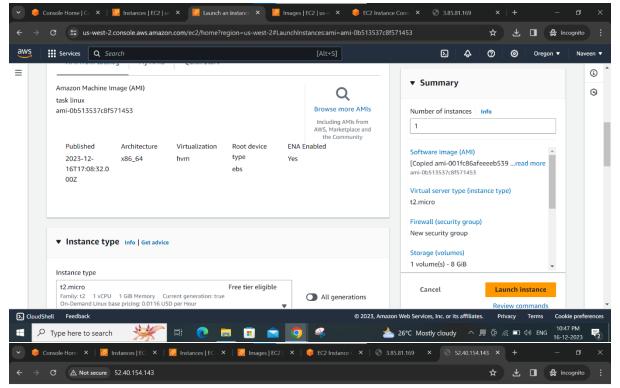
It works!



- Create a image in (N. Verginia) by selecting in action image and templates
- After creating the image we can a see the Instance image in AMI and select the AMI go to action copy AMI and select the destination region as US west (Oregon) and click copy AMI
- Go to AMI in Oregon regionand launch instance from AMI
- Create a instance in Oregon
- The Oregon instance will host a web server without any configuration or installing web server and the same application in web server in N. verginia will be reflected in Oregon instance







It works!



- Create a two EBS Volumes in (N. Virginia) same availability zone where EC2 instance in created
- After creating EBS Volume select the volume and go to action click attach and select the instance and attach the two volume
- Select the volume go to action and detach the volume and delete the volume
- Select the volume go to action and modify volume. (we can only increase the volume size we can't decrease the volume size)

- To take backup of the EBS volume we create a snapshot
- Select the volume go to action create snapshot
- We can see the snapshot of the volume

