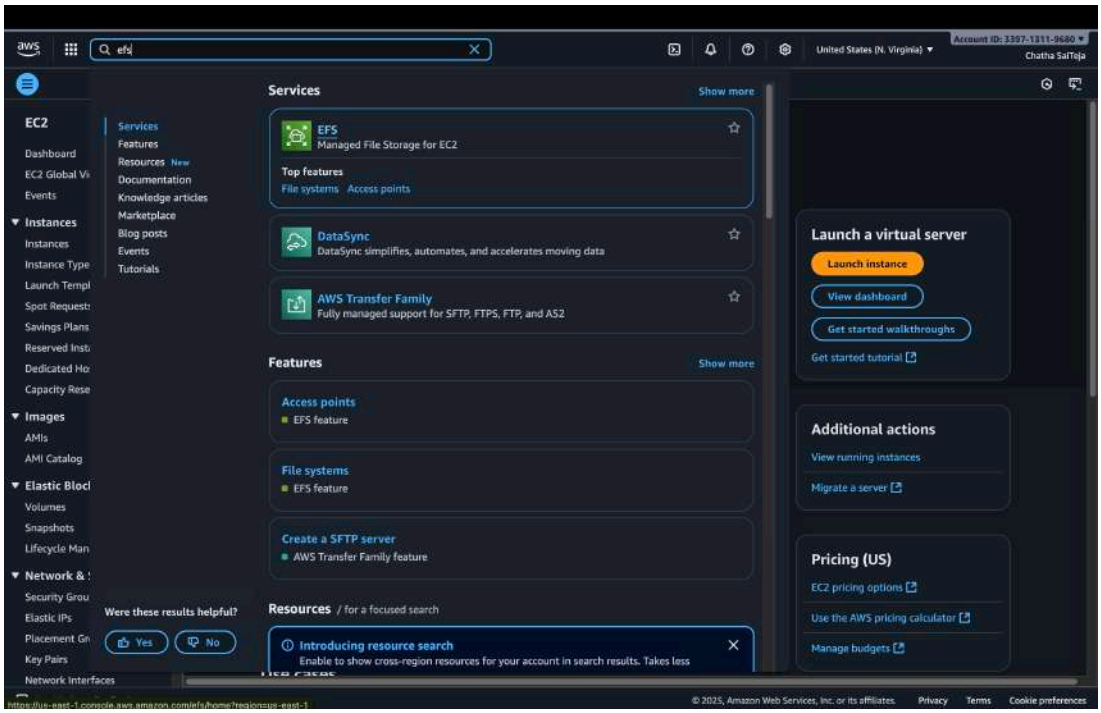
Assignment

Tasks To Be Performed:

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

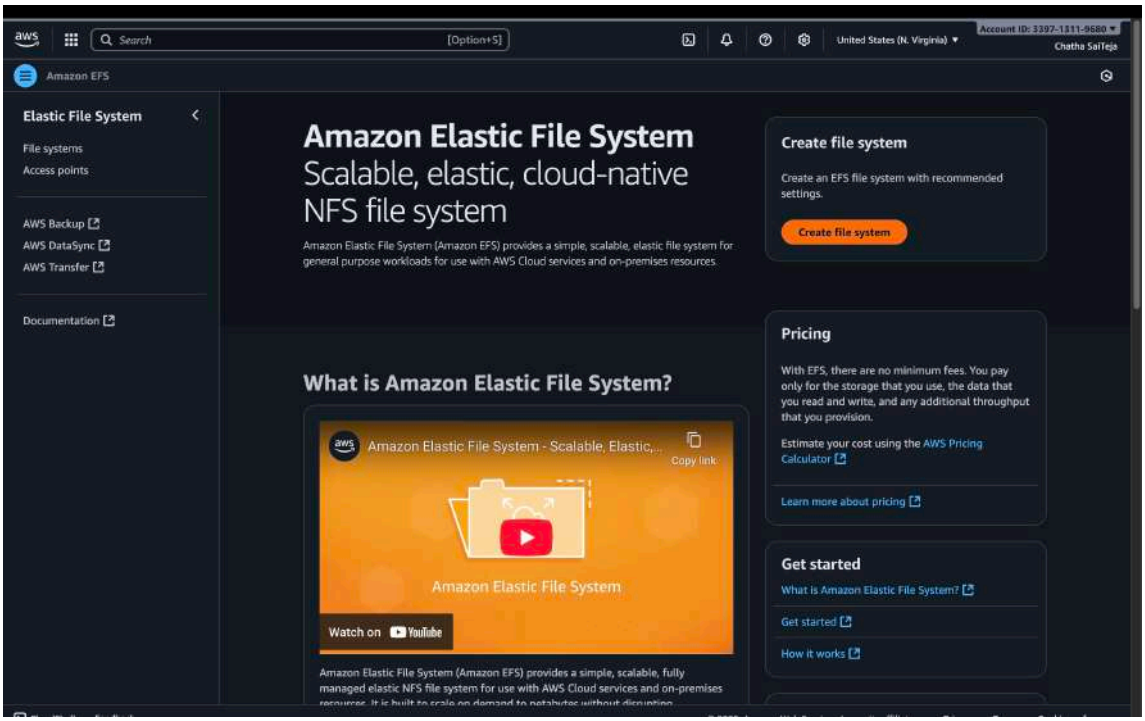
Step-By-Step Procedure:-

Step 1:- Open AWS Console , Sign in and search for EFS(Elastic Fie System)



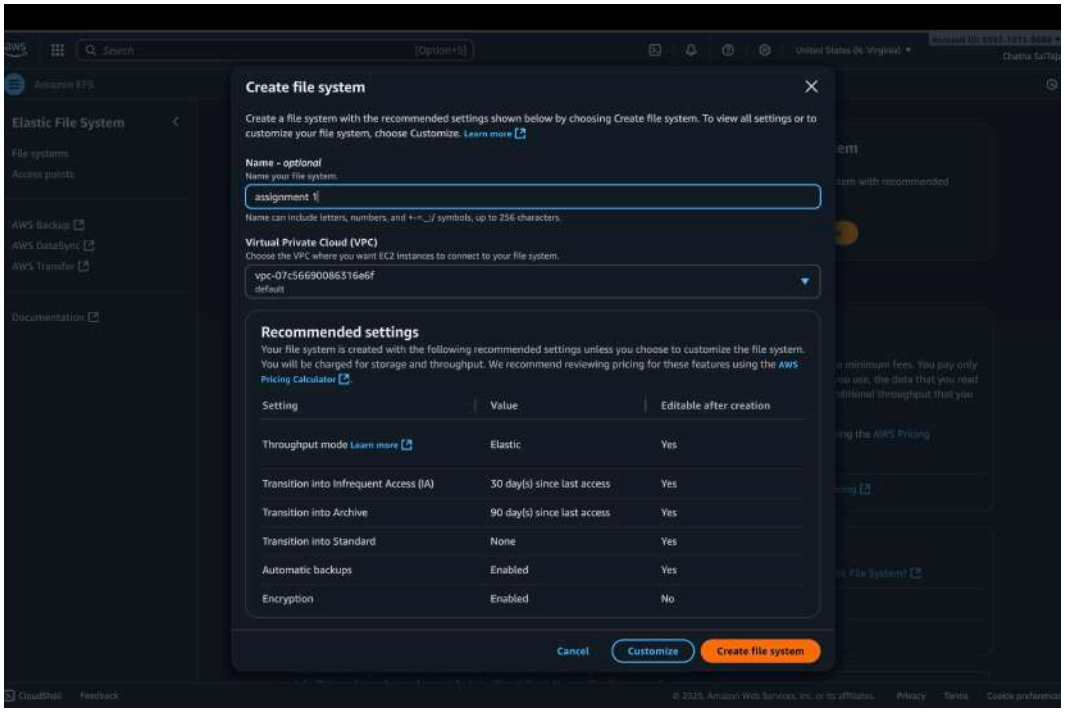
Search for EFS In Console

Step 2:- Go to EFS , then You can see “Create File System” click on it.



EFS Interface

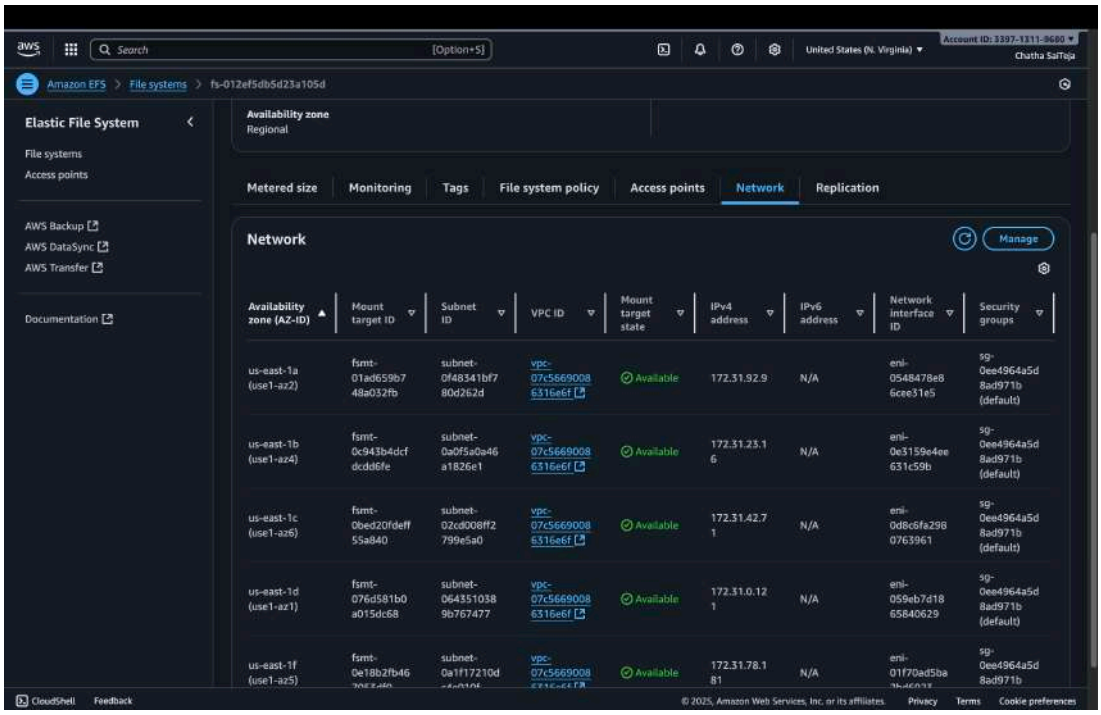
Step 3:- Give File System name (like anything you want to give)and other details or else you can customize the EFS, then Click on Create File system.



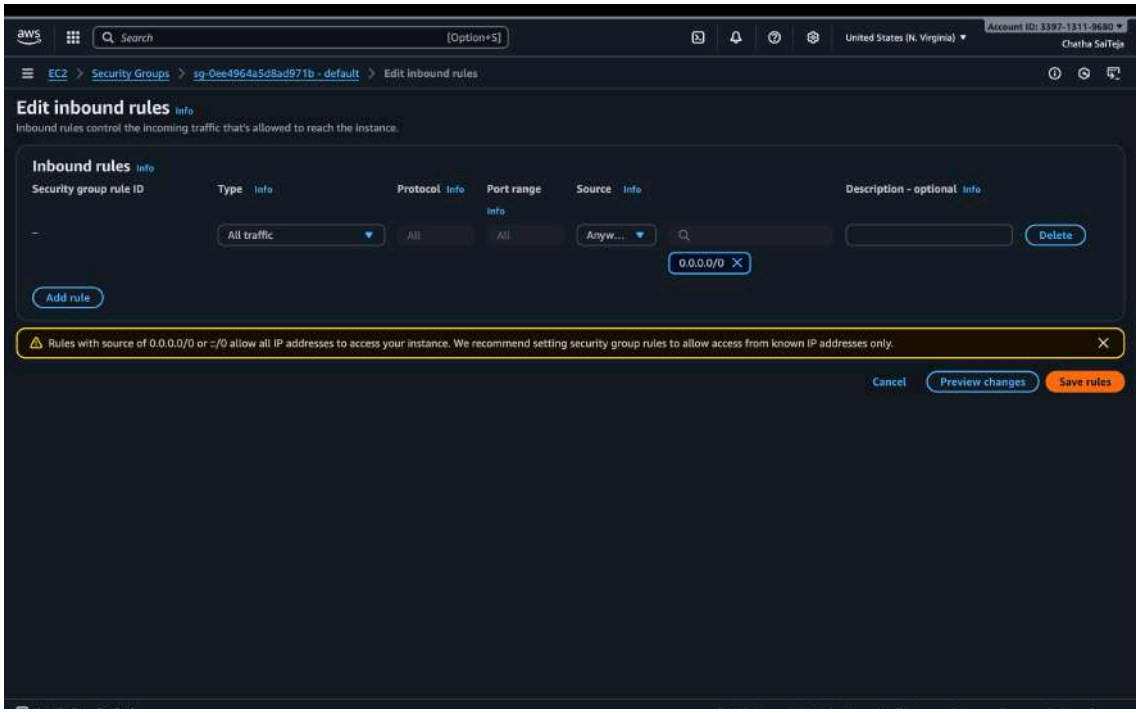
Caption

Step 4:- As we created EFS ,now we have to create 3 instances with different OS(operating systems) - “Ubuntu”,”Amazon Linux”, “Red Hat”

Step 5:- Before Creating the Instances ,Go to File System details, Click on Networks ,in that Check for Security Groups then Change the Security group inbound rules to “All Traffic” and “Anywhere IPV4”

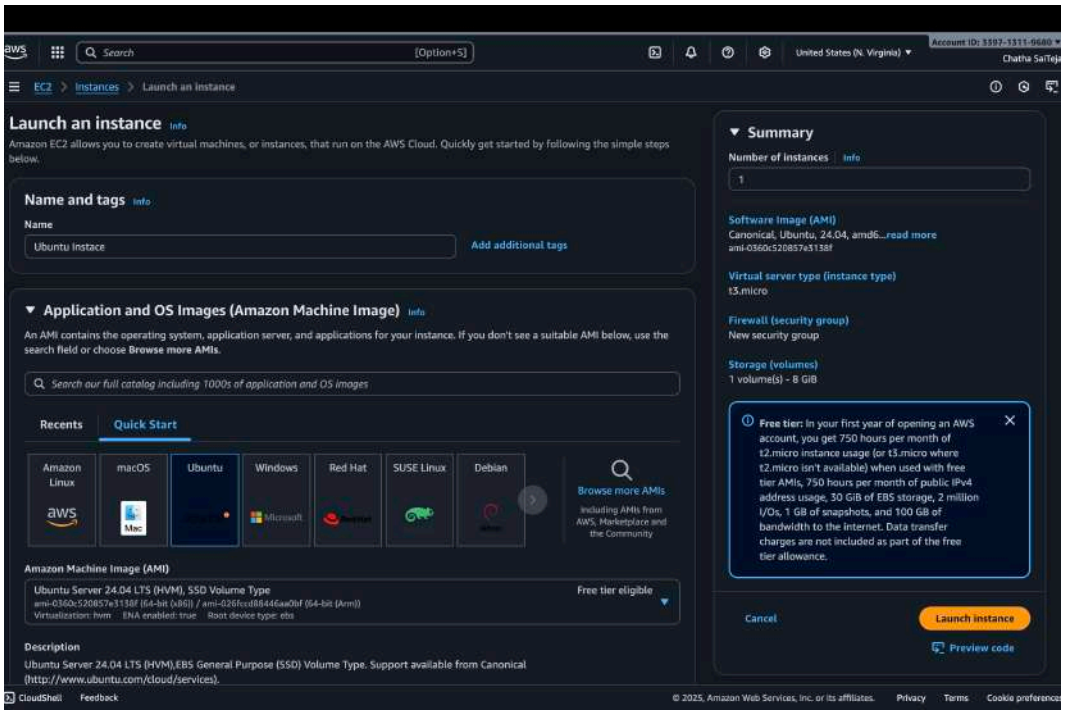


Checking Security Groups

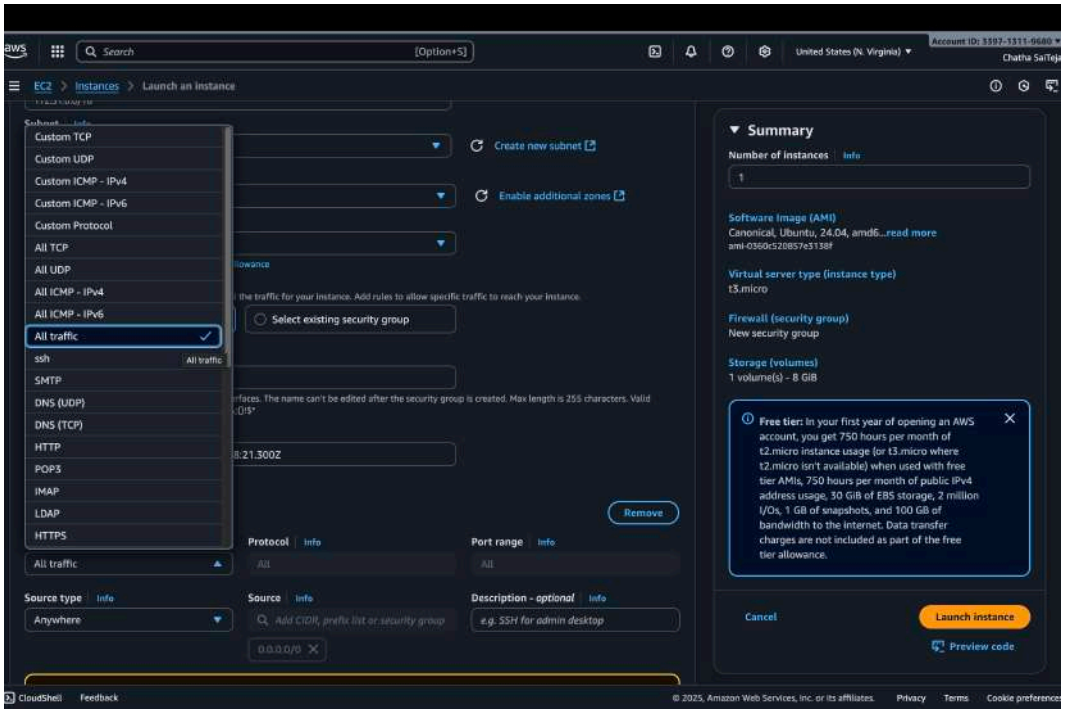


Editing Inbound rules

Step 6- Now we have to create the Instances, lets start with Instance1(Ubuntu),while creating the instance edit the inbound rules(in security groups) to allow “All Traffic “.

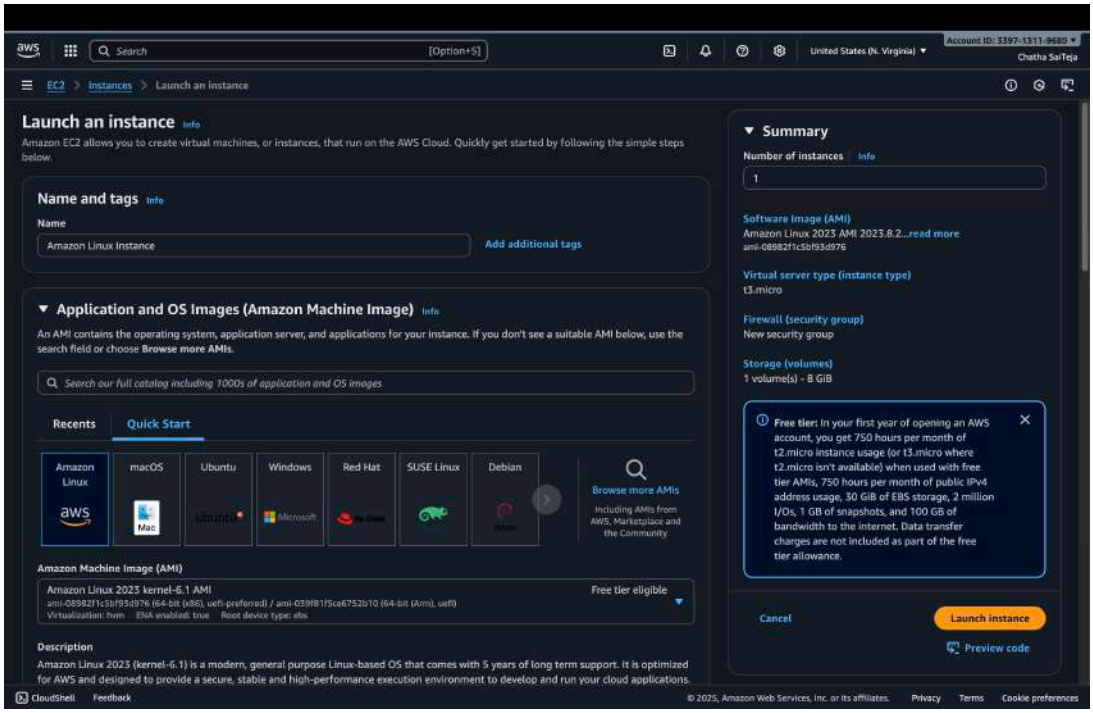


Creating Instance1(UBUNTU)

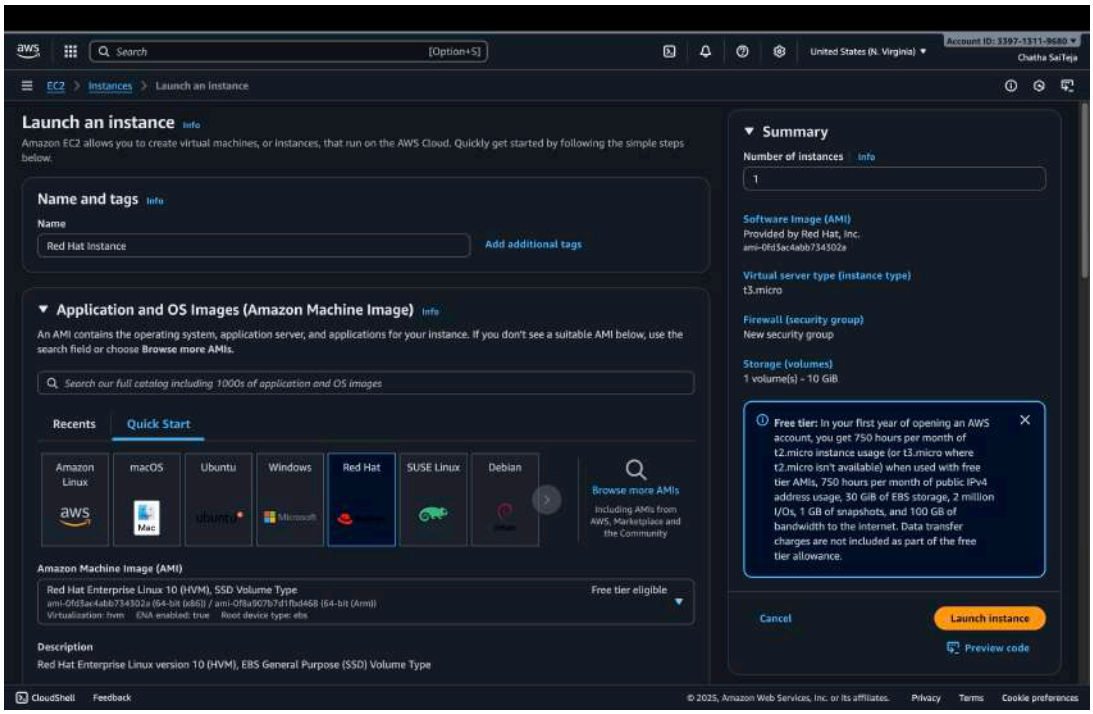


Edit the Inbound rules

Step 7:- Create two more instances(Amazon Linux, RedHat Linux) same as above by editing inbound rules of their Security groups.



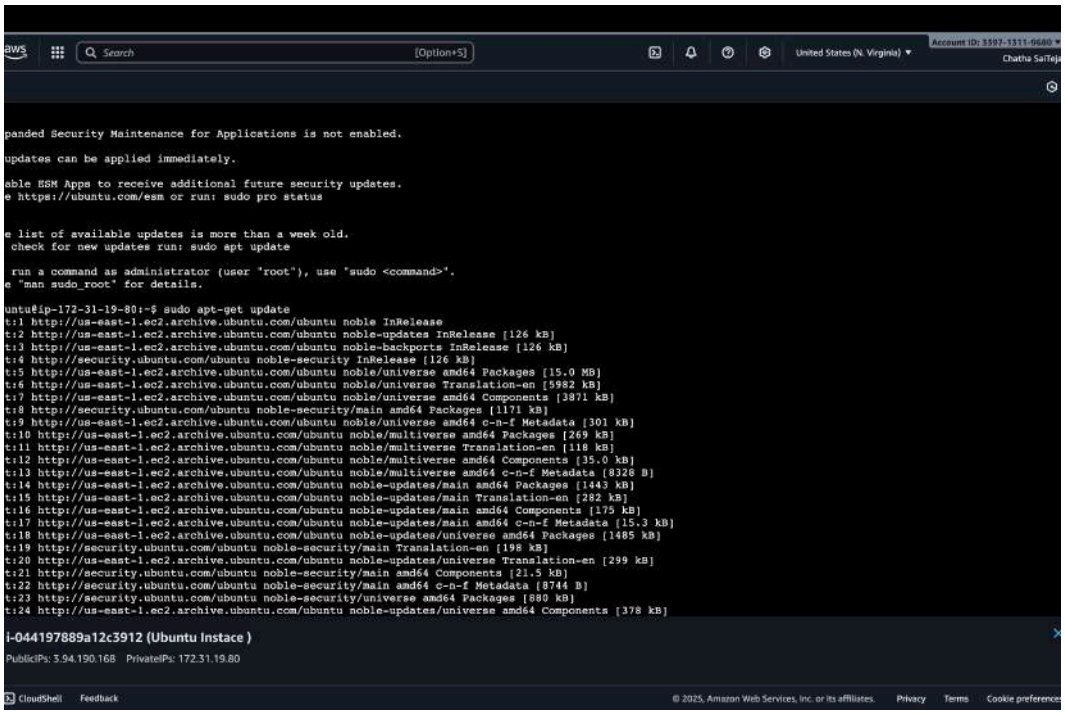
Instance 2(Amazon Linux)

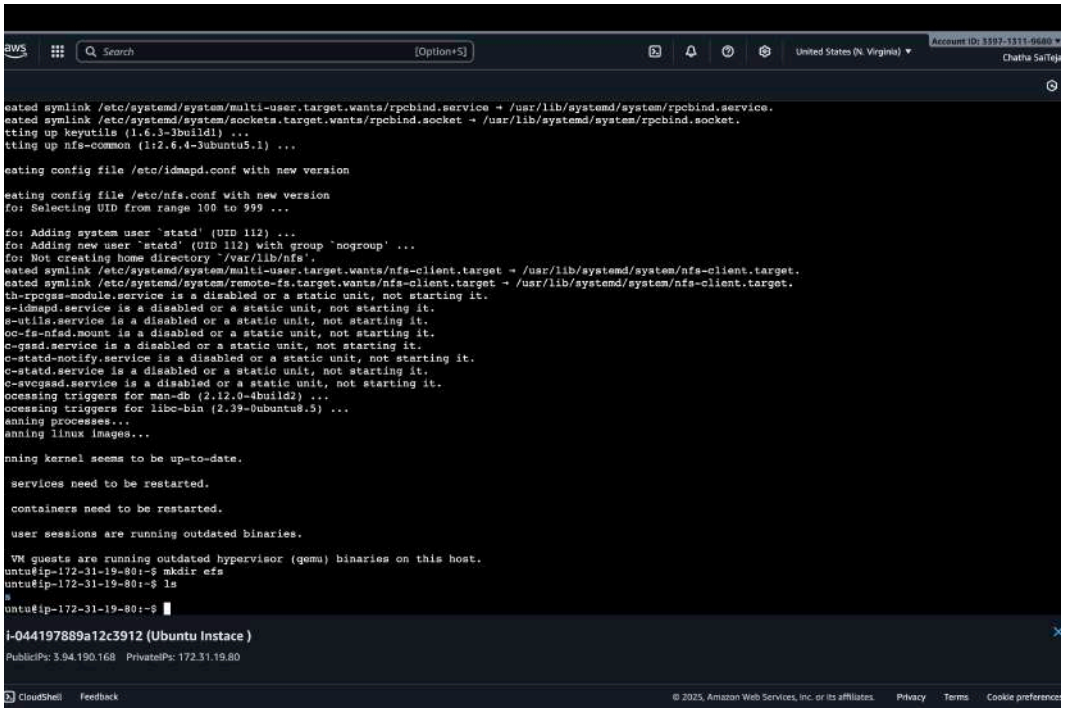


Instance 3(Red Hat)

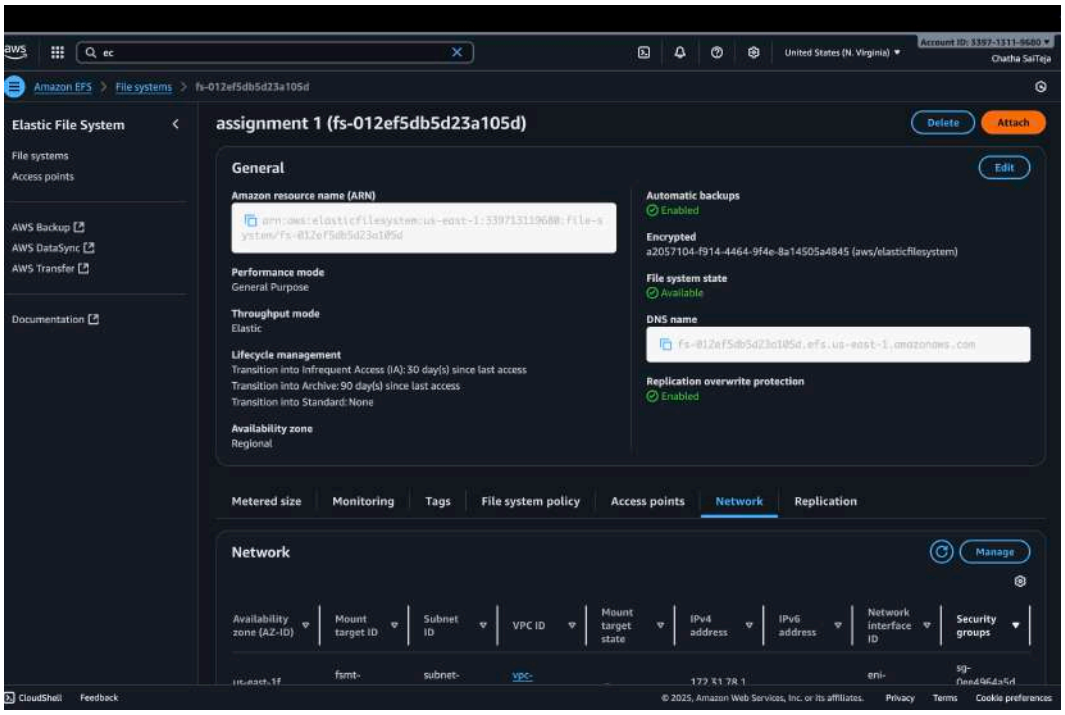
Step 8:- Connect the first Instance (UBUNTU) and run the following commands to attach the instance to EFS

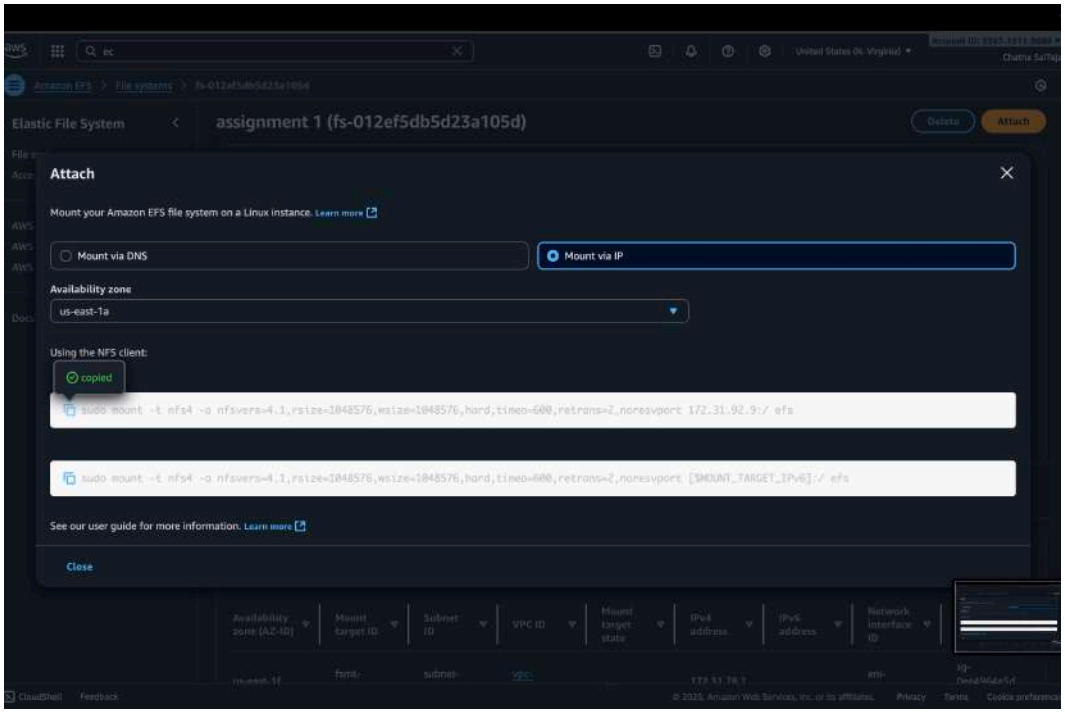
Commands:- sudo apt-get update
sudo apt install nfs-common
mkdir efs



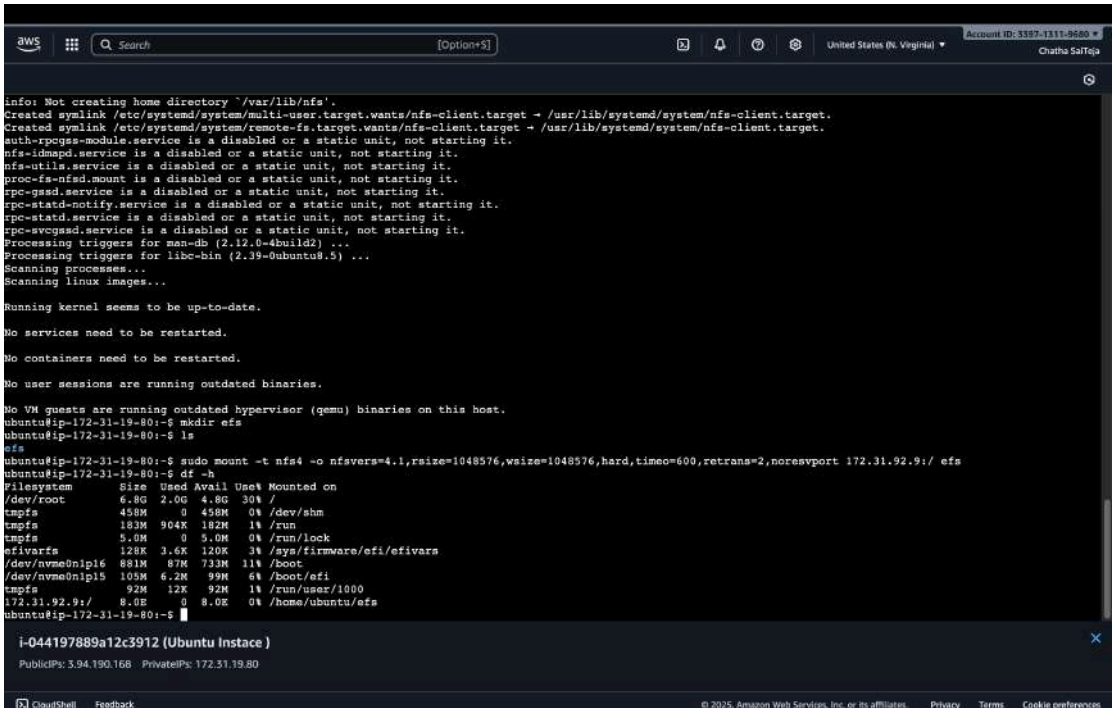


Step 9:- Attach the instance to EFS by pasting the command from efs attach button where we have an option mount via dns or mount via ip, we prefer mount via ip copy the command and paste in the Ubuntu terminal .





Copy the Command



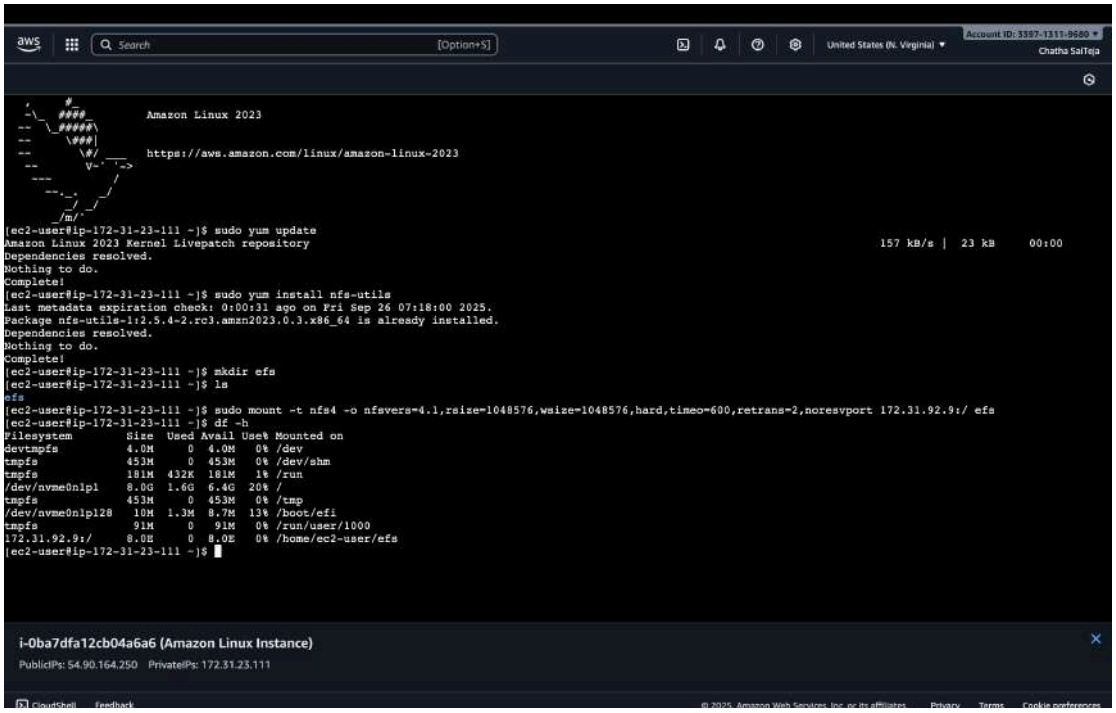
Instance1 Mounted with EFS

Step 10:- Connect the Second Instance (Amazon Linux) and run the following commands to attach the instance to EFS

Commands:- sudo yum update

sudo yum install nfs-utils

mkdir efs



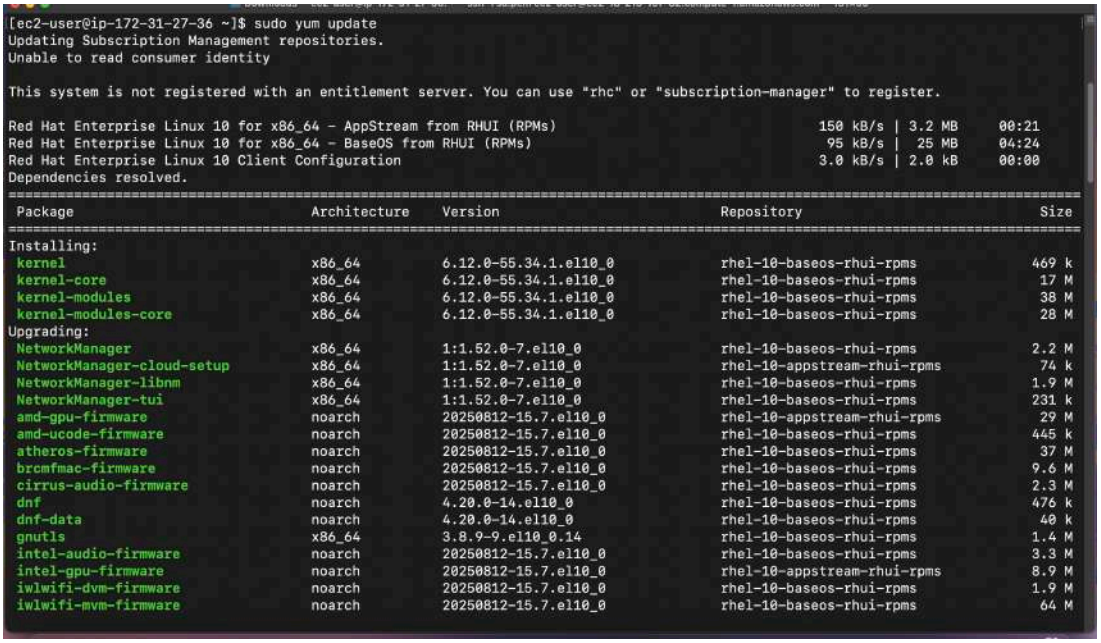
Instance 2 mounted with EFS

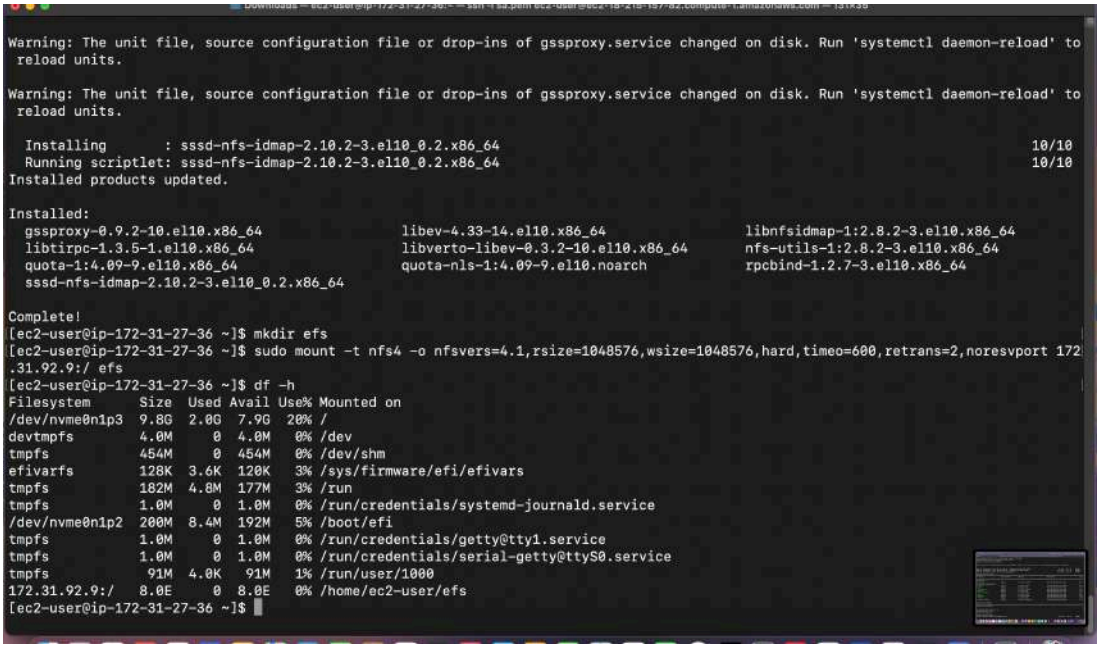
* Copy the command same as in instance 1 to mount the instance 2 with EFS

Step 11:- Connect the Third Instance (Red Hat Linux) and run the following commands to attach the instance to EFS

Commands:- sudo yum update
sudo yum install nfs-utils
mkdir efs

* Red hat Linux should not directly connect the instance we should connect it through ssh client (terminal ,windows shell).
* Same like above insatnces copy the command of Efs to mount the instance to Efs



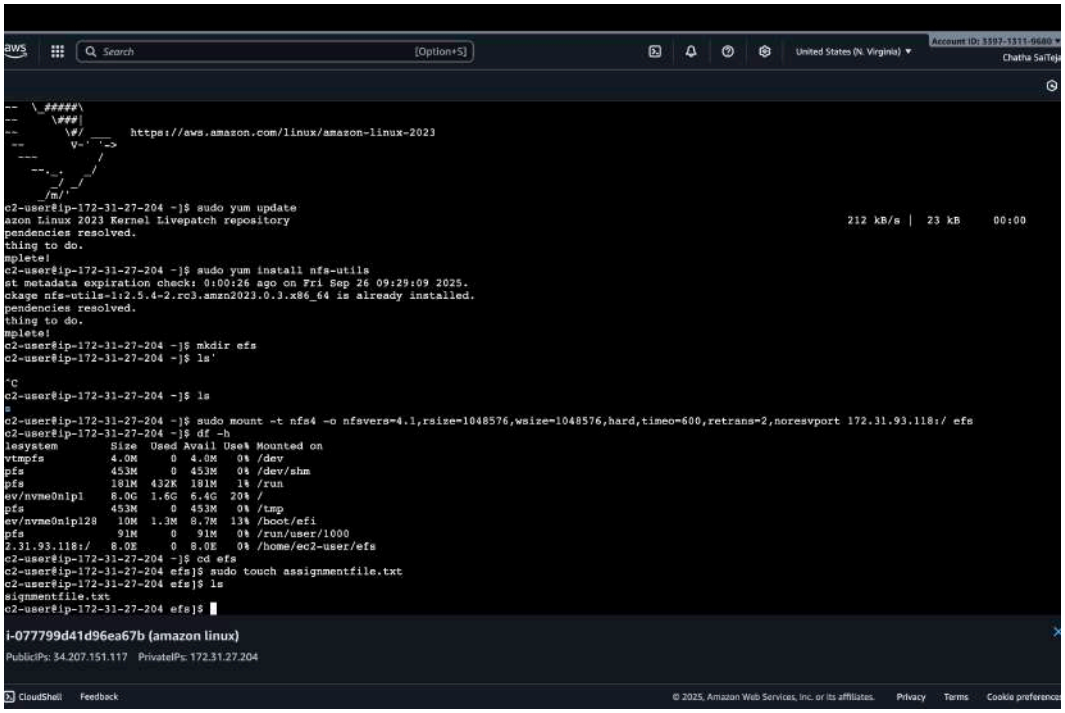


Instance 3 Mounted to Efs

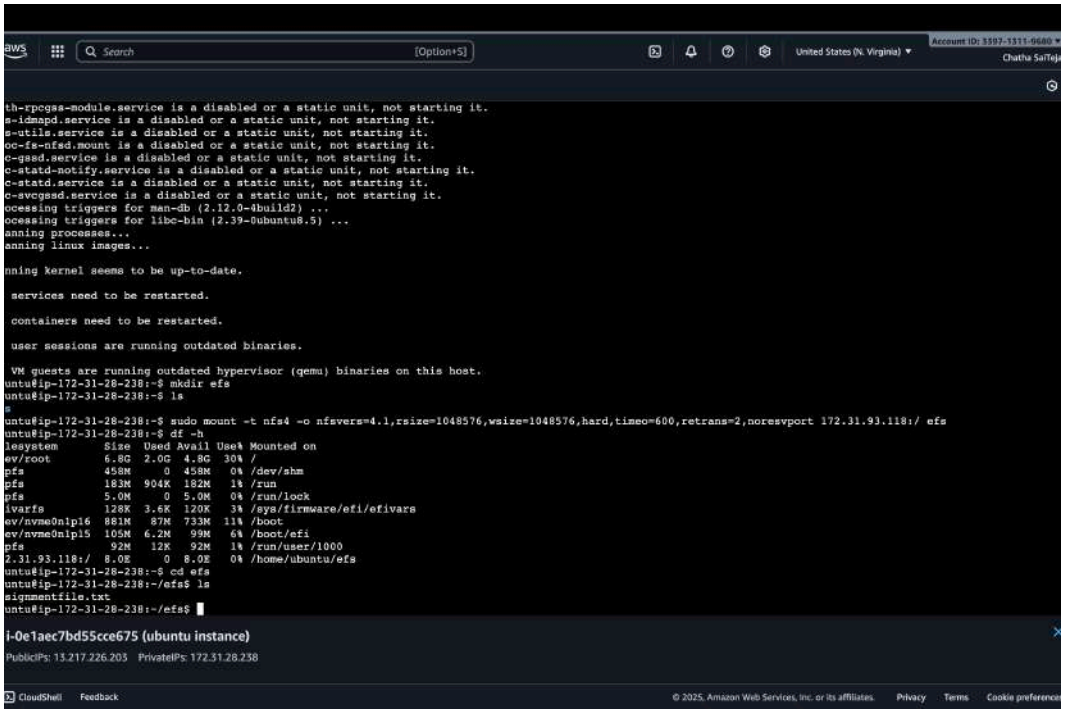
Step 12:- Now we mounted three instances to EFS and created directory named "efs", so we create a fie in one instance then it shows in all three instance without touching the instances.

* So we create the file named as "assignmentfile.txt" In Amazon Linux Instance(Instance2) using command sudo touch assignmentfile.txt .

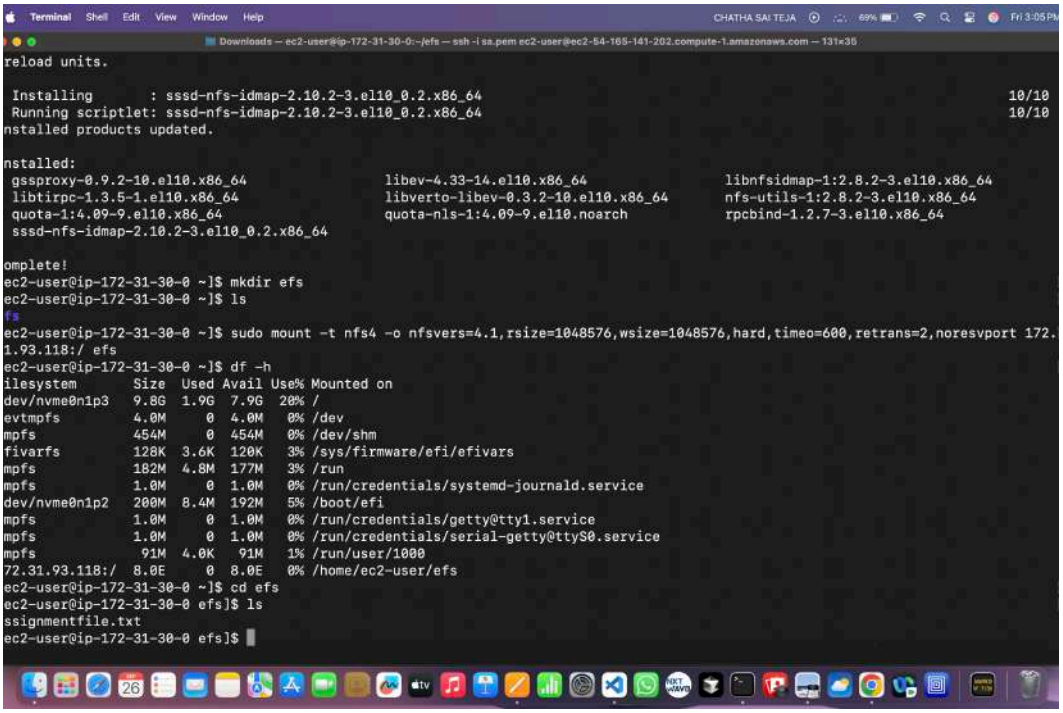
* Now we can see the file in other two instances we can check by running the command "ls".



Created a file in Amazon linux Instance



By running the command ls we can see the file in Ubuntu Instance



By running the command ls we can see the file in Red Hat Linux Instance

Step 13:- The three instances are mounted to the Efs we created ,now the instances share the storage. Efs Is region Specific.