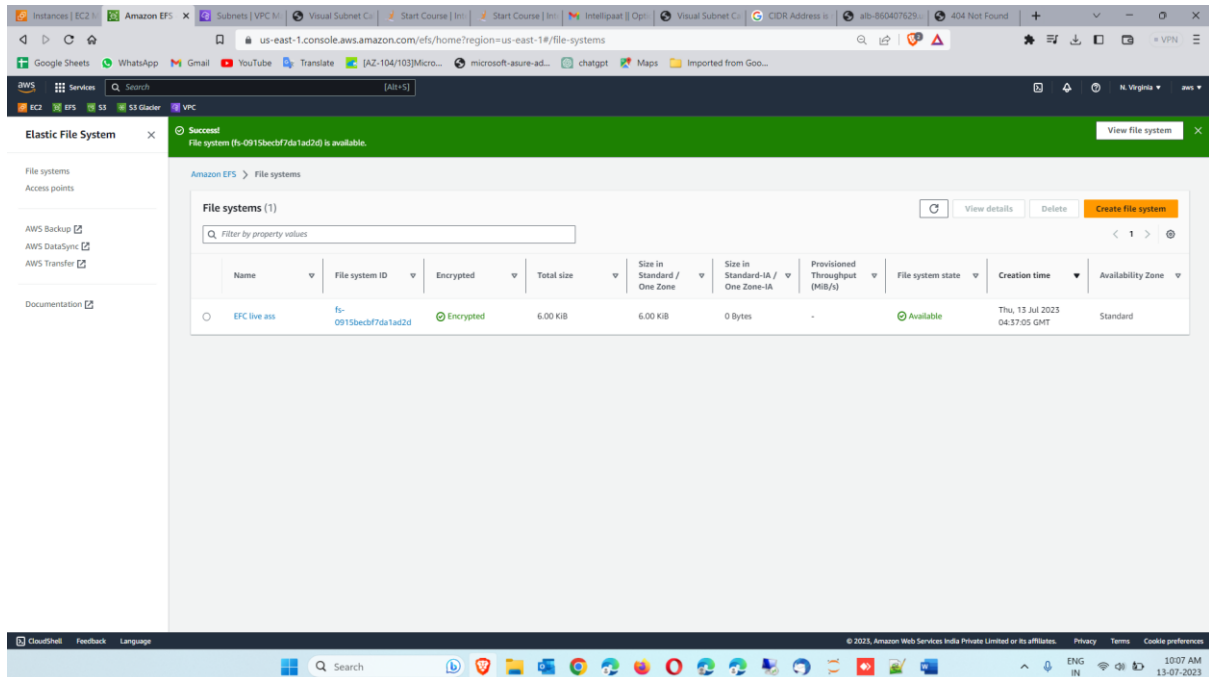
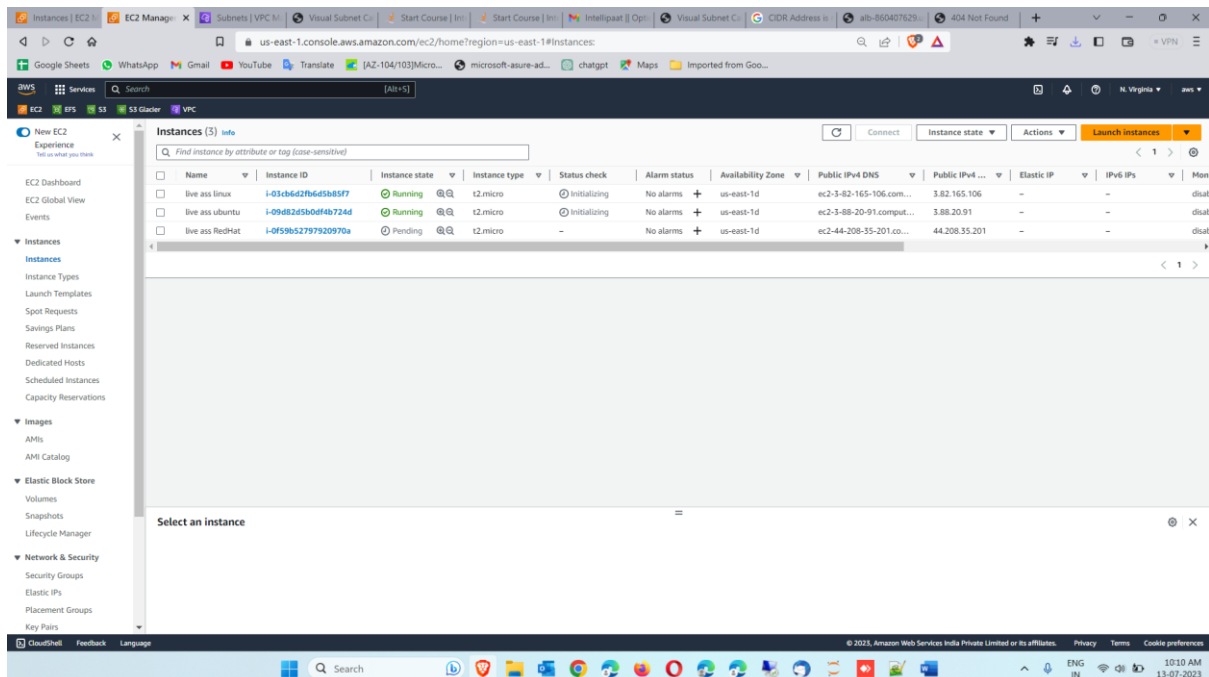


# Module 2: EC2 & EFS Assignment

1. Created an EFS file system.

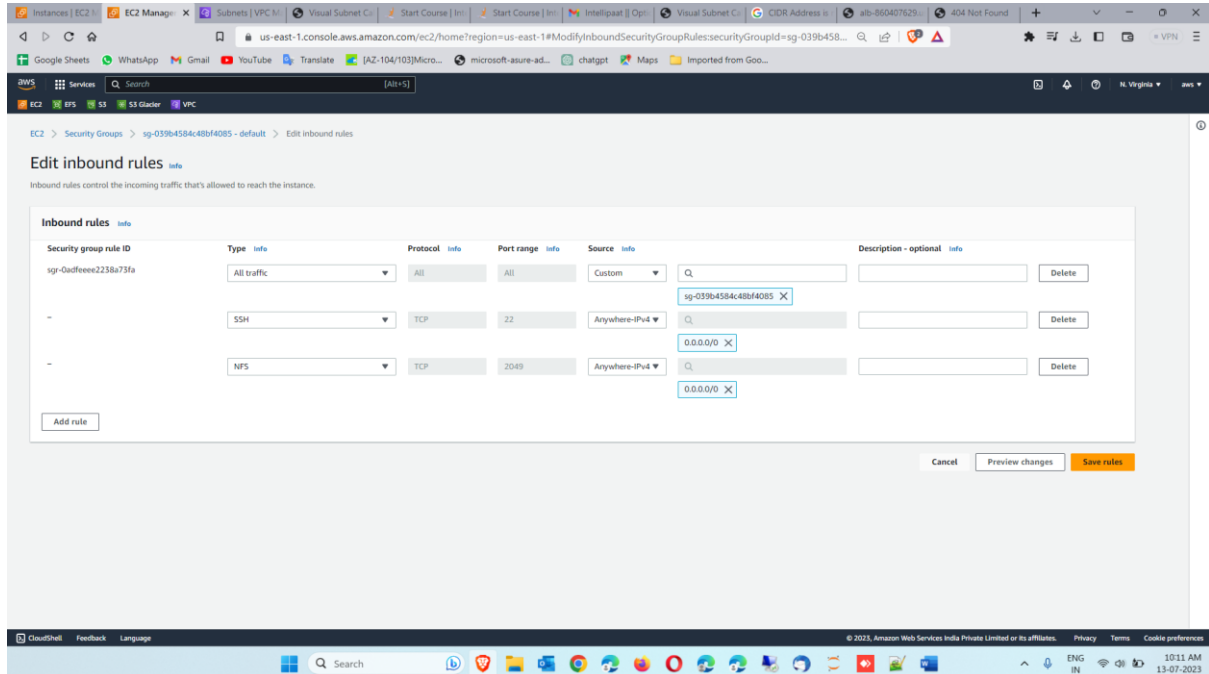


2. 3 different EC2 instances launched below.

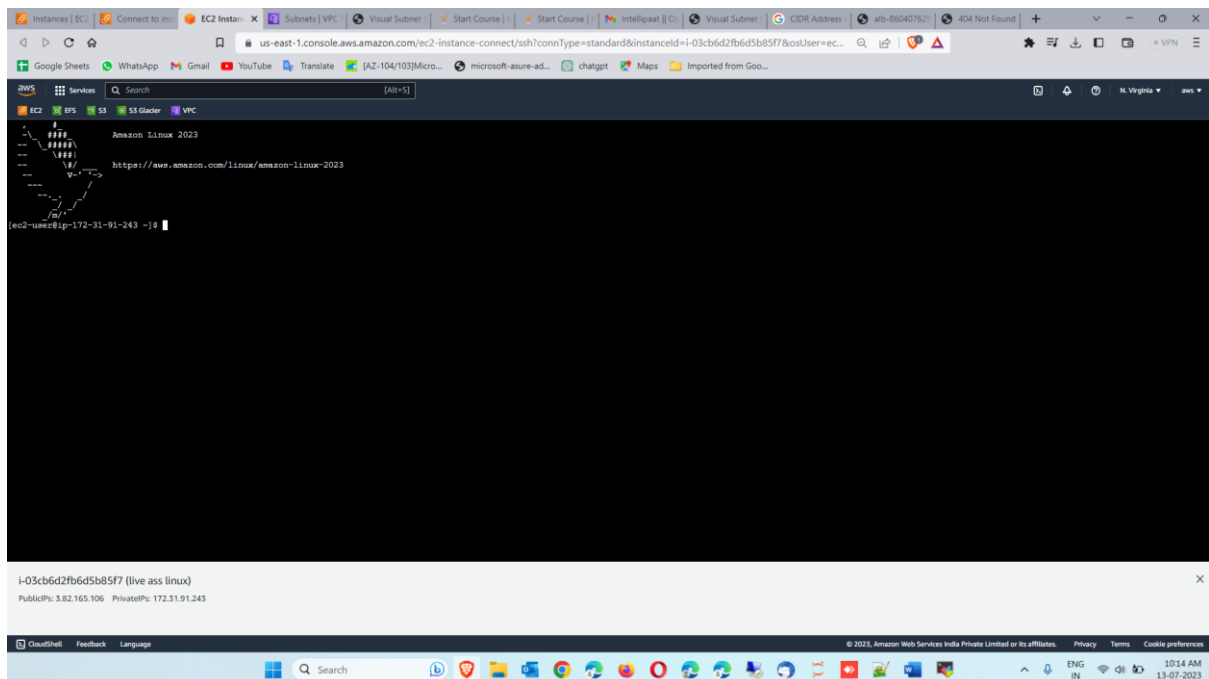


## Module 2: EC2 & EFS Assignment

3. Which SG I have attached with the Instances the same SG I have added SSH and NFS inbound rules.

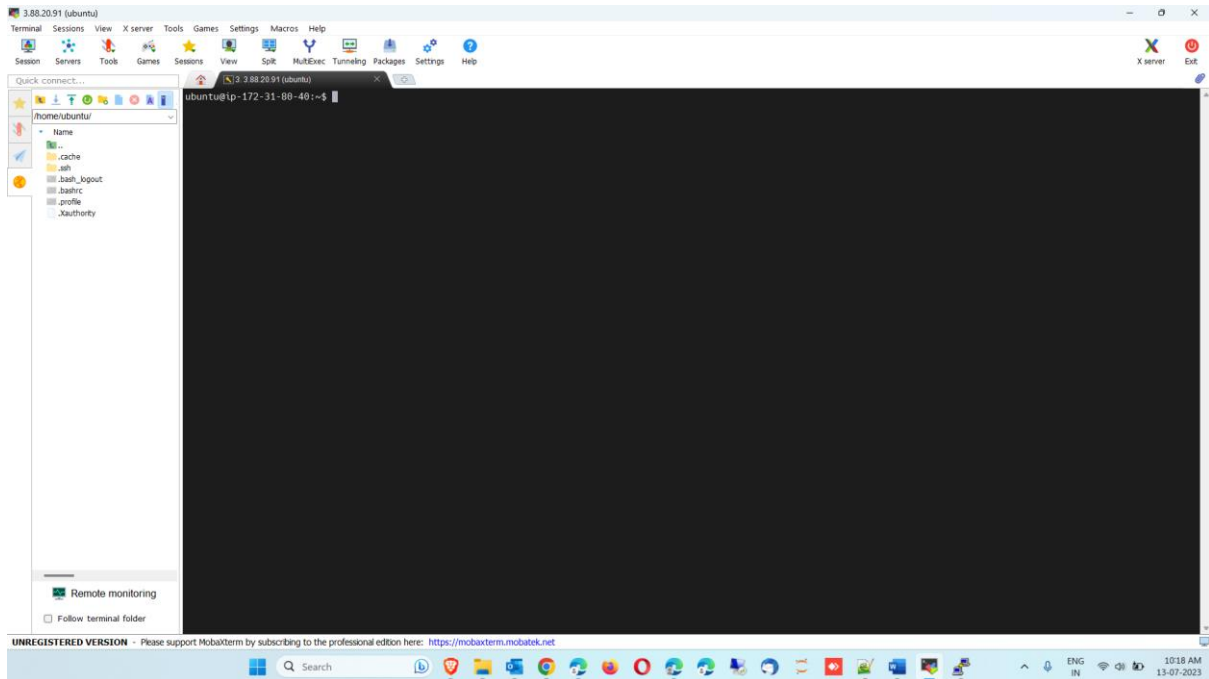


4. Launched a Linux instance via AWS console.

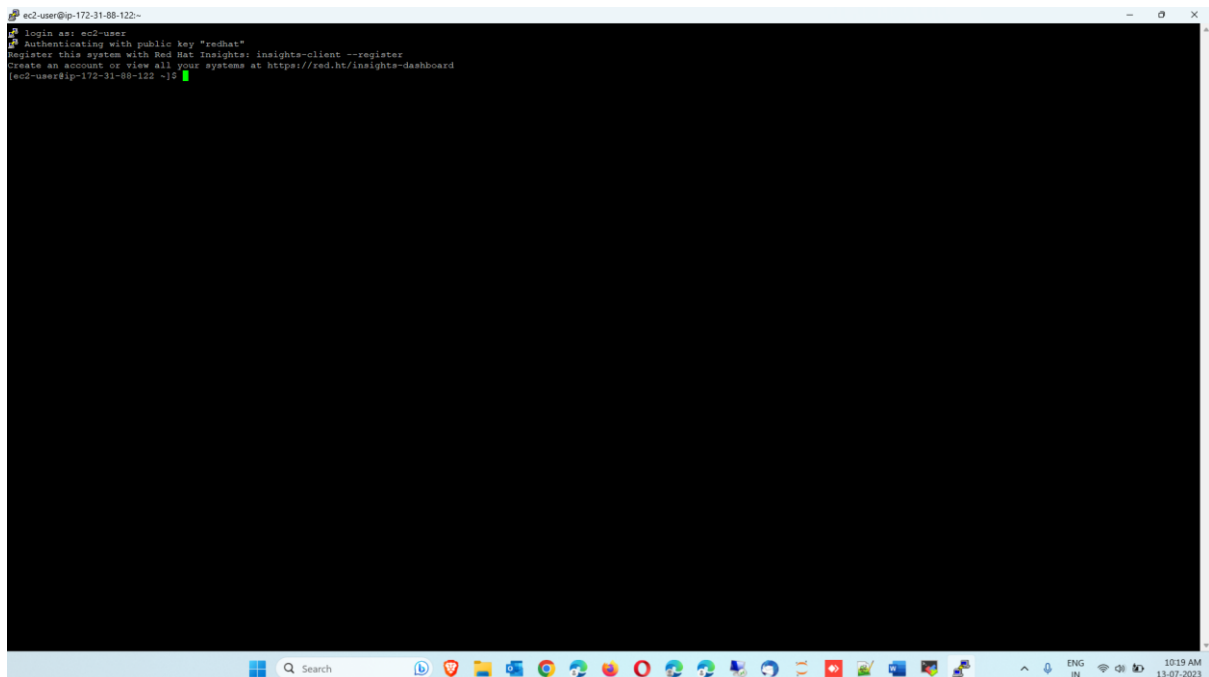


## Module 2: EC2 & EFS Assignment

5. Launched ubuntu machine through the MobaXterm.

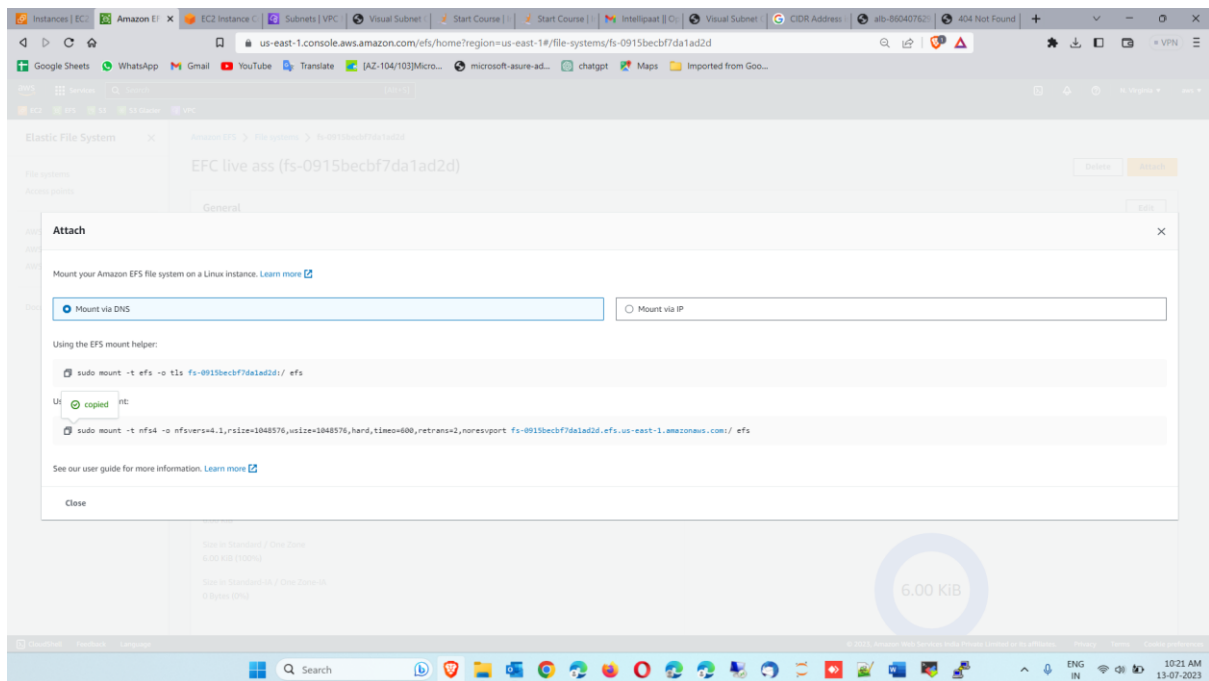


6. RedHat machine connected through putty.

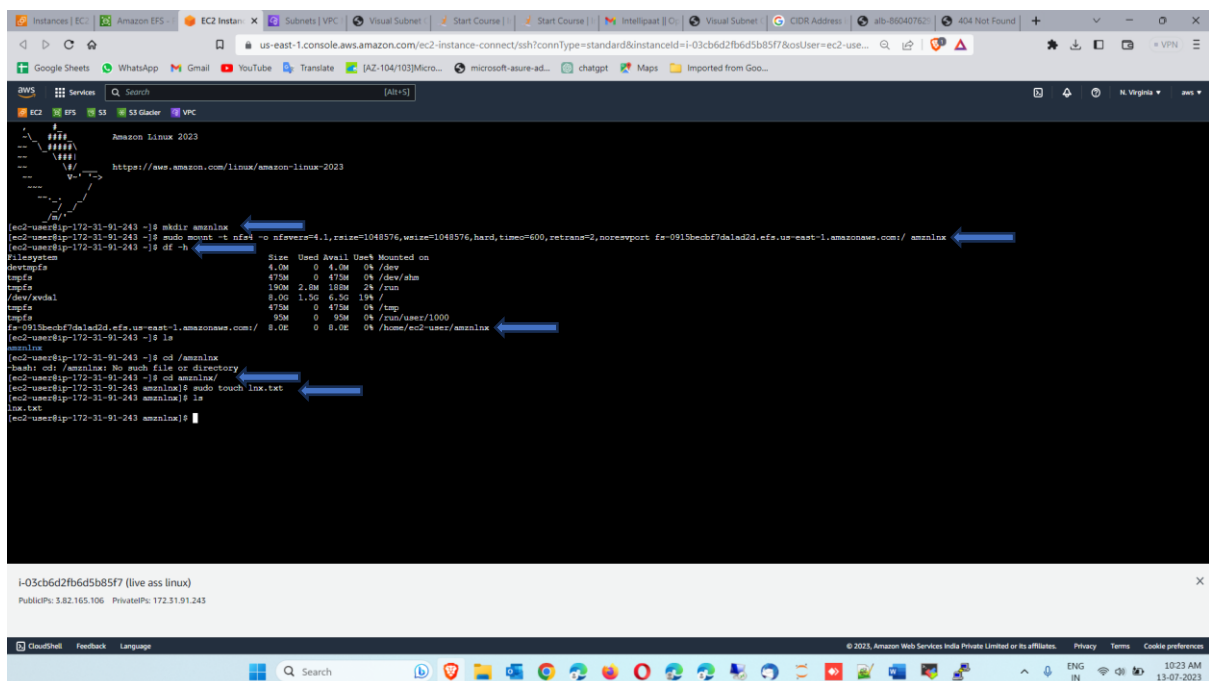


## Module 2: EC2 & EFS Assignment

7. Goto EFS file system. Click attach option and copy the NFS client CMD.

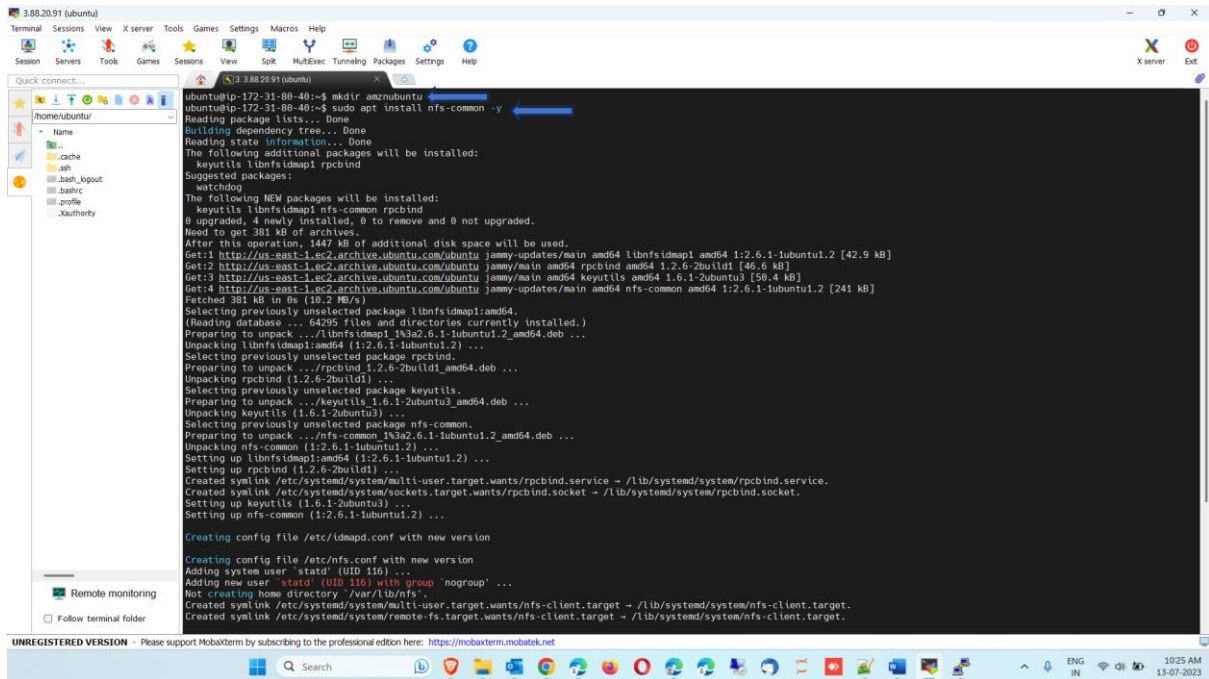


8. Goto Linux instance. Make a file Directory and paste the NFS cmd. Edit efs to amznlnx. Enter Define Host cmd (df -h). File system has been mounted. Created one sample file.



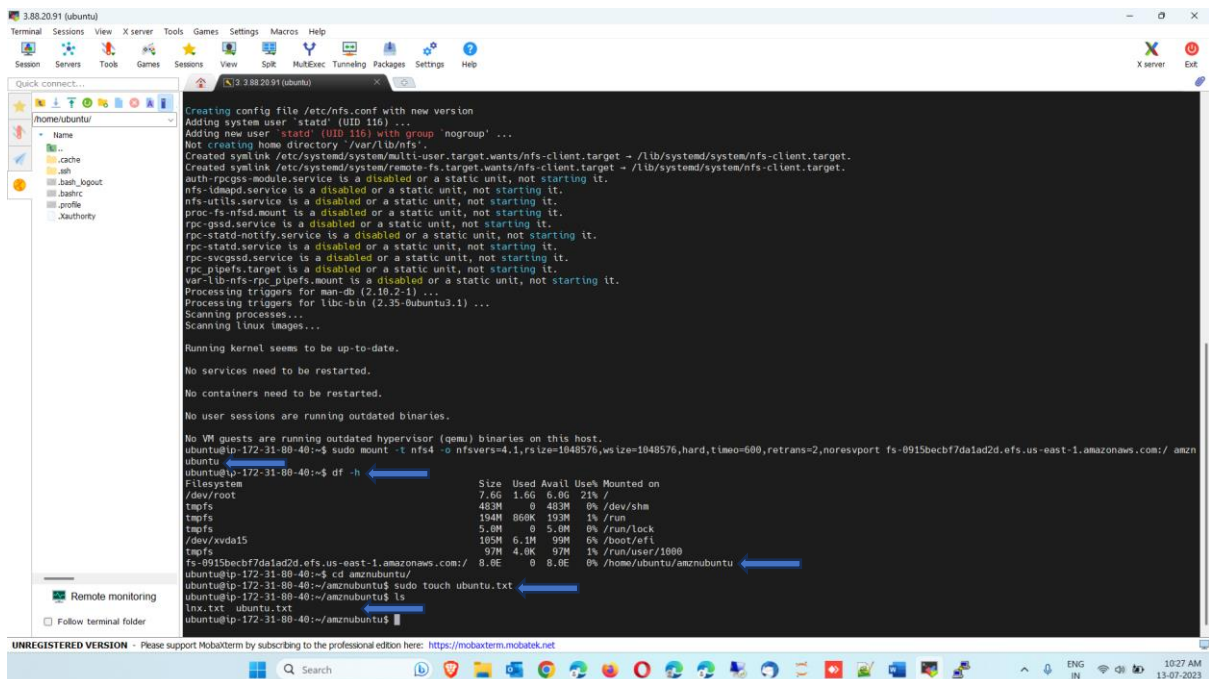
## Module 2: EC2 & EFS Assignment

9. Goto ubuntu instance. Make a file Directory and install NFS utils.



```
ubuntu@ip-172-31-88-40:~$ mkdir amznubuntu
ubuntu@ip-172-31-88-40:~$ sudo apt install nfs-common -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  keyutils libnfsidmap1 rpcbind
Suggested packages:
  watchdog
The following NEW packages will be installed:
  keyutils libnfsidmap1 nfs-common rpcbind
0 upgraded, 4 newly installed, 0 to remove and 0 not upgraded.
Need to get 381 kB of archives.
After this operation, 1447 kB of additional disk space will be used.
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libnfsidmap1 amd64 1:2.6.1-1ubuntu1.2 [42.9 kB]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 rpcbind amd64 1.2.6-2build1 [46.6 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 keyutils amd64 1.6.1-2ubuntu3 [50.4 kB]
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 nfs-common amd64 1:2.6.1-1ubuntu1.2 [241 kB]
Fetched 381 kB in 0s (10.2 MB/s)
Selecting previously unselected package libnfsidmap1:amd64.
(Reading database ... 5495 files and directories currently installed.)
Preparing to unpack .../libnfsidmap1_1k3a2.6.1-1ubuntu1.2_amd64.deb ...
Unpacking libnfsidmap1:amd64 (1:2.6.1-1ubuntu1.2) ...
Selecting previously unselected package rpcbind.
Preparing to unpack .../rpcbind_1:2.6-2build1_amd64.deb ...
Unpacking rpcbind (1:2.6-2build1) ...
Selecting previously unselected package keyutils.
Preparing to unpack .../keyutils_1.6.1-2ubuntu3_amd64.deb ...
Unpacking keyutils (1.6.1-2ubuntu3) ...
Selecting previously unselected package nfs-common.
Preparing to unpack .../nfs-common_1:2.6.1-1ubuntu1.2_amd64.deb ...
Unpacking nfs-common (1:2.6.1-1ubuntu1.2) ...
Setting up libnfsidmap1:amd64 (1:2.6.1-1ubuntu1.2) ...
Setting up rpcbind (1:2.6-2build1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/rpcbind.service → /lib/systemd/system/rpcbind.service.
Created symlink /etc/systemd/system/sockets.target.wants/rpcbind.socket → /lib/systemd/system/rpcbind.socket.
Setting up keyutils (1.6.1-2ubuntu3) ...
Setting up nfs-common (1:2.6.1-1ubuntu1.2) ...
Creating config file /etc/ldmapp.conf with new version
Creating config file /etc/nfs.conf with new version
Adding system user 'nfsd' (UID 110) ...
Adding new user 'nfsd' (UID 110) with group 'nogroup' ...
Not creating home directory '/var/lib/nfs/'.
Created symlink /etc/systemd/system/multi-user.target.wants/nfs-client.target → /lib/systemd/system/nfs-client.target.
Created symlink /etc/systemd/system/remote-fs.target.wants/nfs-client.target → /lib/systemd/system/nfs-client.target.
```

10. Paste the NFS cmd. Edit efs to amznubuntu. Enter Define Host cmd (df -h). File system has been mounted. Created one sample file here. Given the list cmd (ls). Both the sample files are showing here.



```
Creating config file /etc/nfs.conf with new version
Adding system user 'nfsd' (UID 110) ...
Adding new user 'nfsd' (UID 110) with group 'nogroup' ...
Not creating home directory '/var/lib/nfs/'.
Created symlink /etc/systemd/system/multi-user.target.wants/nfs-client.target → /lib/systemd/system/nfs-client.target.
Created symlink /etc/systemd/system/remote-fs.target.wants/nfs-client.target → /lib/systemd/system/nfs-client.target.
auth-rpcgss-module.service is a disabled or a static unit, not starting it.
nfs-idmapd.service is a disabled or a static unit, not starting it.
nfs-utils.service is a disabled or a static unit, not starting it.
proc-fs-nfsd.mount is a disabled or a static unit, not starting it.
rpc-gssd.service is a disabled or a static unit, not starting it.
rpc-statd-notify.service is a disabled or a static unit, not starting it.
rpc-statd.service is a disabled or a static unit, not starting it.
rpc-svcgssd.service is a disabled or a static unit, not starting it.
rpc-pipes.target is a disabled or a static unit, not starting it.
var-lib-nfs-rpc-pipes.mount is a disabled or a static unit, not starting it.
Processing triggers for man-db (2.10.2-1) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

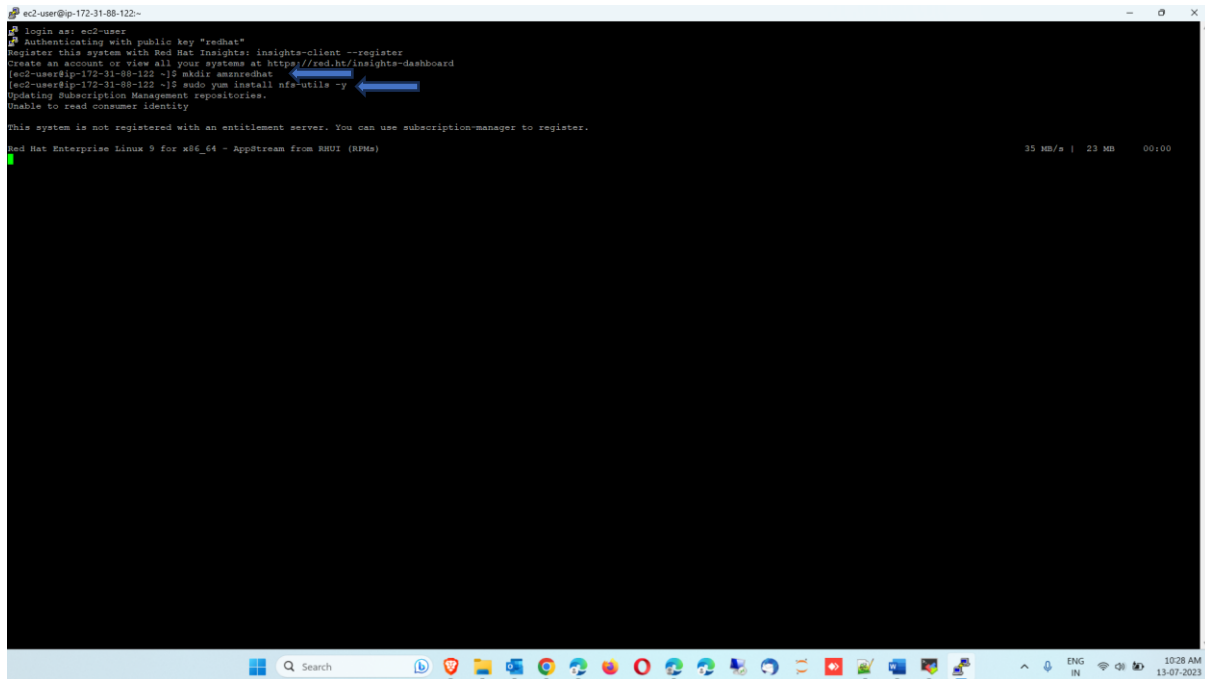
No containers need to be restarted.

No user sessions are running outdated binaries.

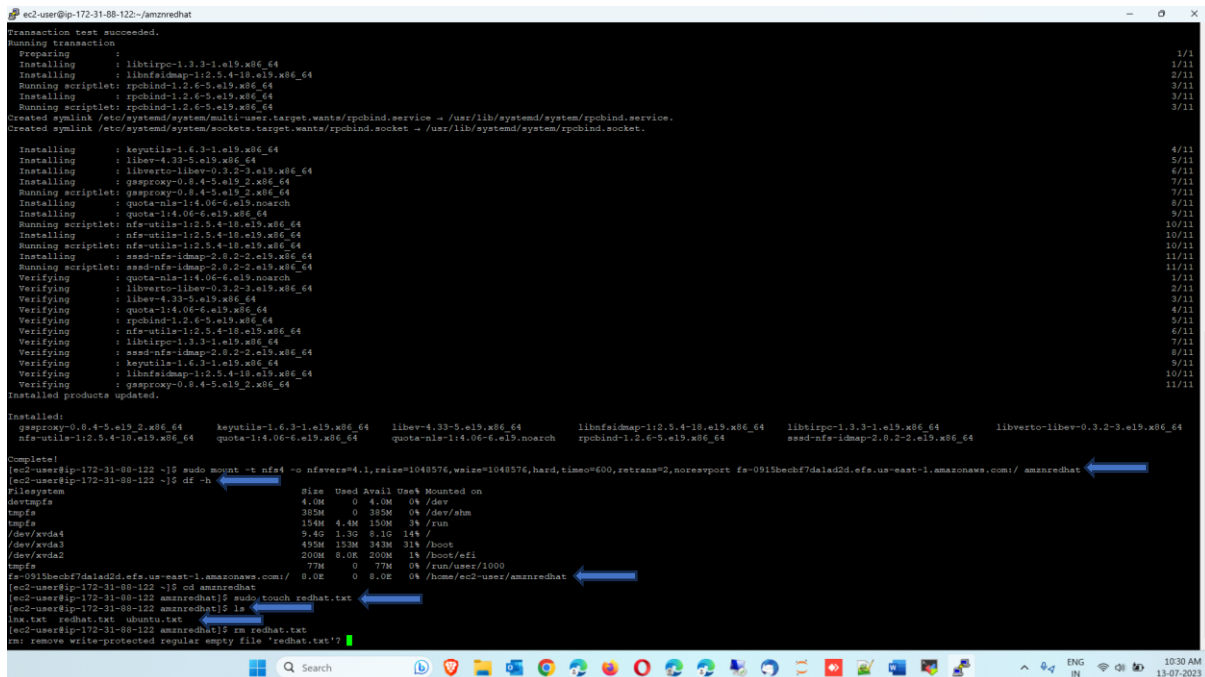
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-88-40:~$ sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport fs-0915becbf7d1ad2d.efs.us-east-1.amazonaws.com:/ amznubuntu
ubuntu@ip-172-31-88-40:~$ df -h
Filesystem                Size      Used Avail Use% Mounted on
/dev/root                  7.6G      1.6G  6.0G  21% /
tmpfs                      483M      0  483M   0% /dev/shm
tmpfs                      194M      0  194M   0% /run
tmpfs                       5.0M      0   5.0M   0% /run/lock
/dev/xvda15                105M      6.1M   99M   6% /boot/efi
tmpfs                      97M      4.9K   97M   1% /run/user/1000
fs-0915becbf7d1ad2d.efs.us-east-1.amazonaws.com/  8.0E      0  8.0E   0% /home/ubuntu/amznubuntu
ubuntu@ip-172-31-88-40:~$ cd amznubuntu/
ubuntu@ip-172-31-88-40:~/amznubuntu$ sudo touch ubuntu.txt
ubuntu@ip-172-31-88-40:~/amznubuntu$ ls
lnx.txt  ubuntu.txt
ubuntu@ip-172-31-88-40:~/amznubuntu$
```

## Module 2: EC2 & EFS Assignment

11. Goto RedHat instance. Make a file Directory and install NFS utils.



12. Paste the NFS cmd. Edit efs to amznredhat. Enter Define Host cmd (df -h). File system has been mounted. Created one sample file here. Given the list cmd (ls). All three sample files are showing here.



## Module 2: EC2 & EFS Assignment

13. EFS has been successfully mounted the in the different EC2 instances. Which I have created an **individual sample files in the Linux, ubuntu & RedHat, all three txt files I can able to access in individual instances.** Find the below.

