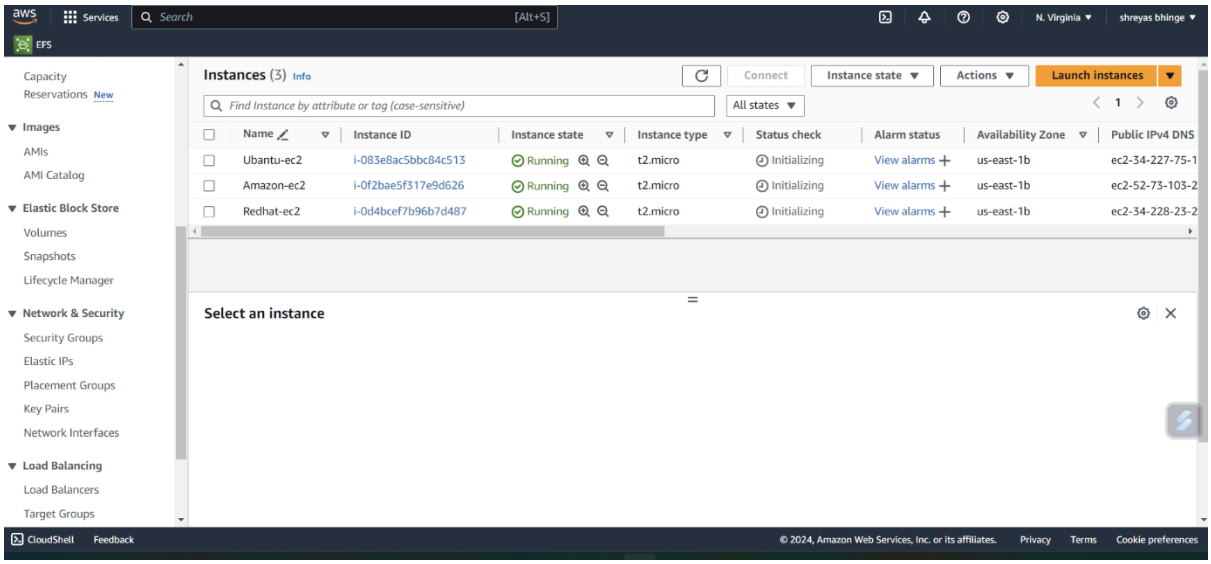
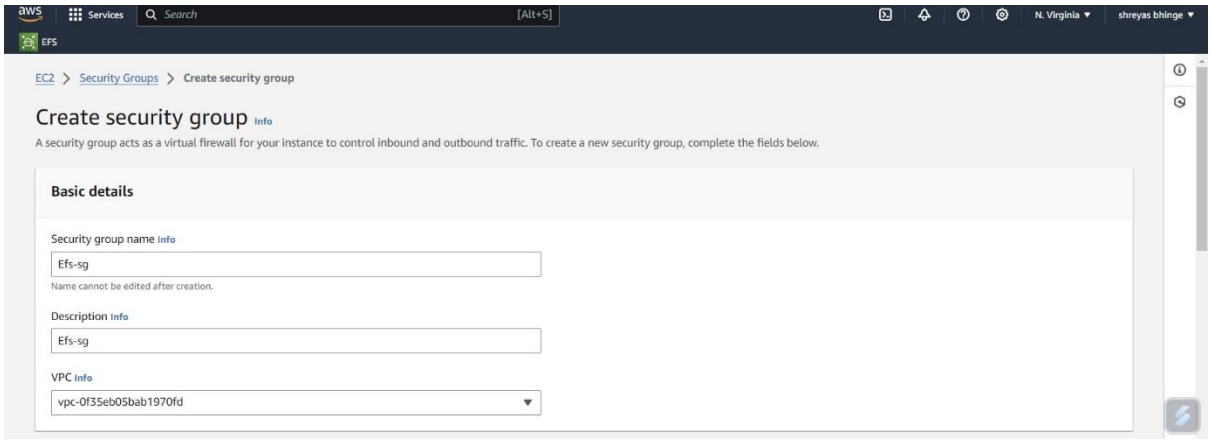
Assignment EC2 and EFS

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**
   Ans:

   Step I
   - Created 3 Ec2 instance by using Amazon Linux 2, Ubuntu and Red hat Linux — I just opened only port 22 security group in all the instances

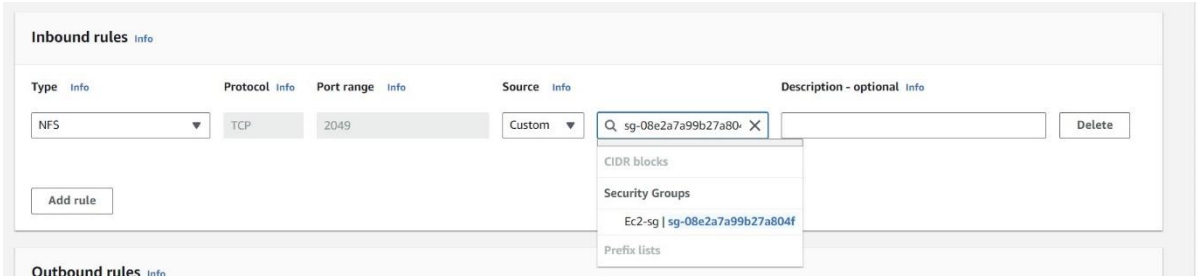


STEP 2 — Created security group for EFS Inbound type NFS port (2049) allow source



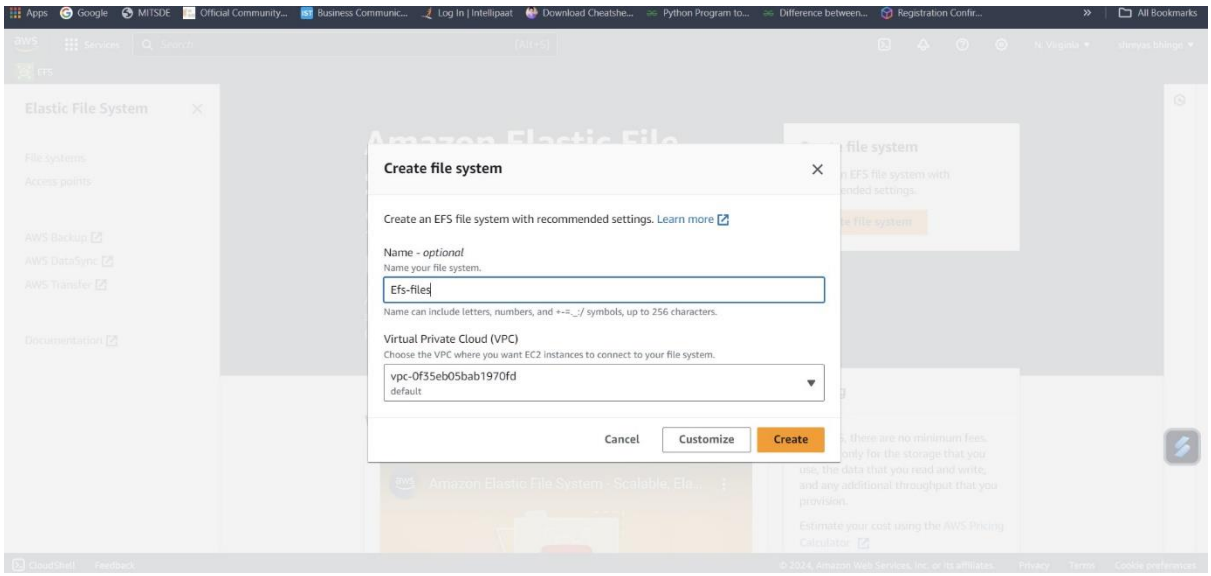
- Copied security group of every ec2 and pasted in inbound rules.

Assignment EC2 and EFS



STEP 3

— Created EFS File with a name based on project (EFS_file)



- Click customize — click next (networking)
- In networking remove all the network access where just mention only the network access you mentioned previously.

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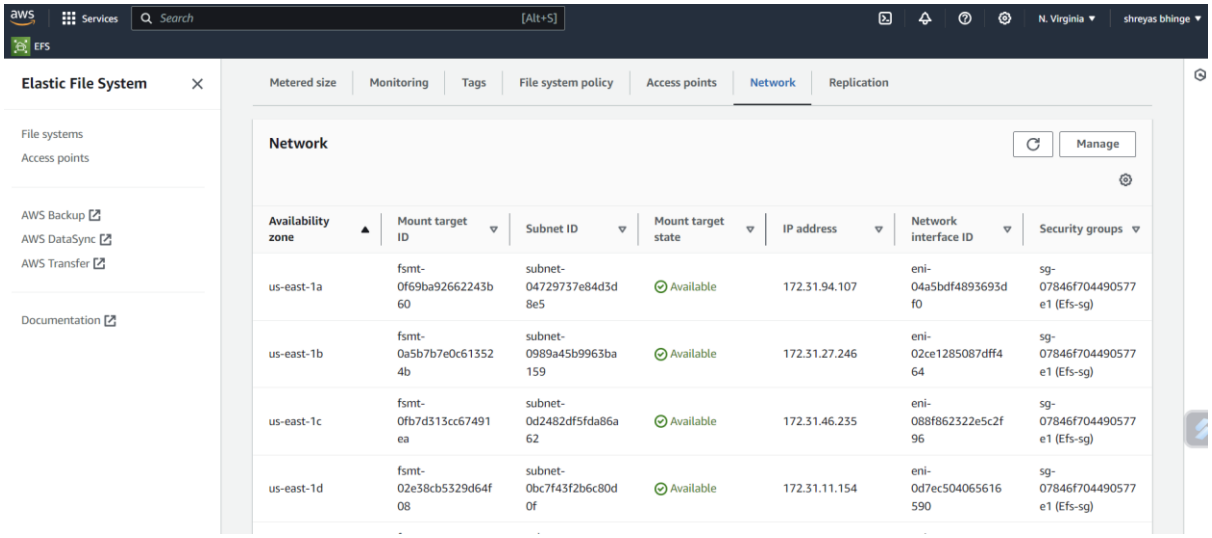


- Check availability zone and security group weather they are the same as you created in step 1 an 2.
- Click Next — Next — create.

STEP 4

1. Mounting efs to Amazon linux

Connect to the servers let's Take Amazon Linux 2 by using Ec2 instance connect.

— Use below commands

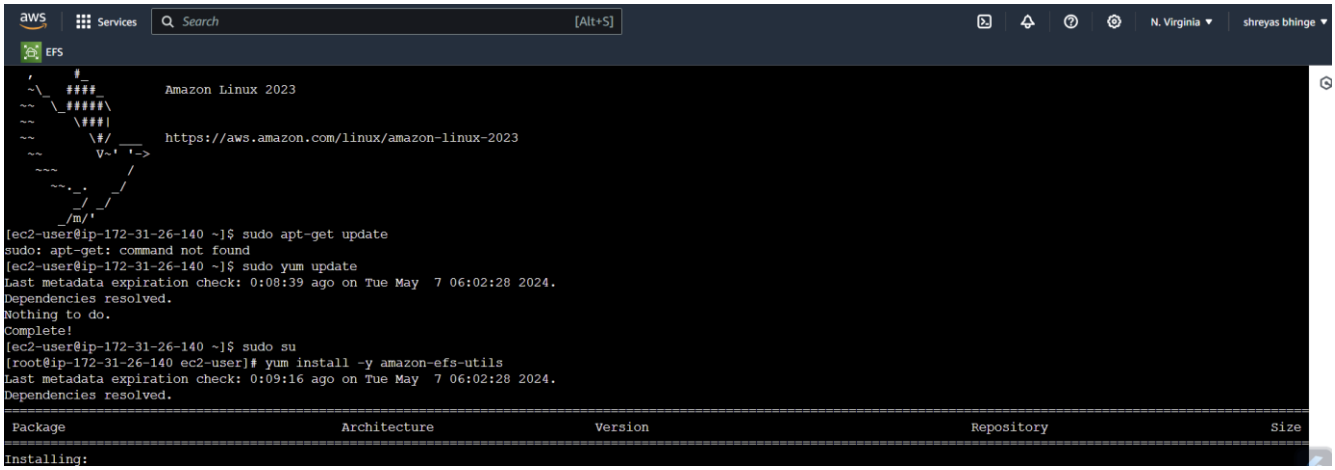
— Shift to root user

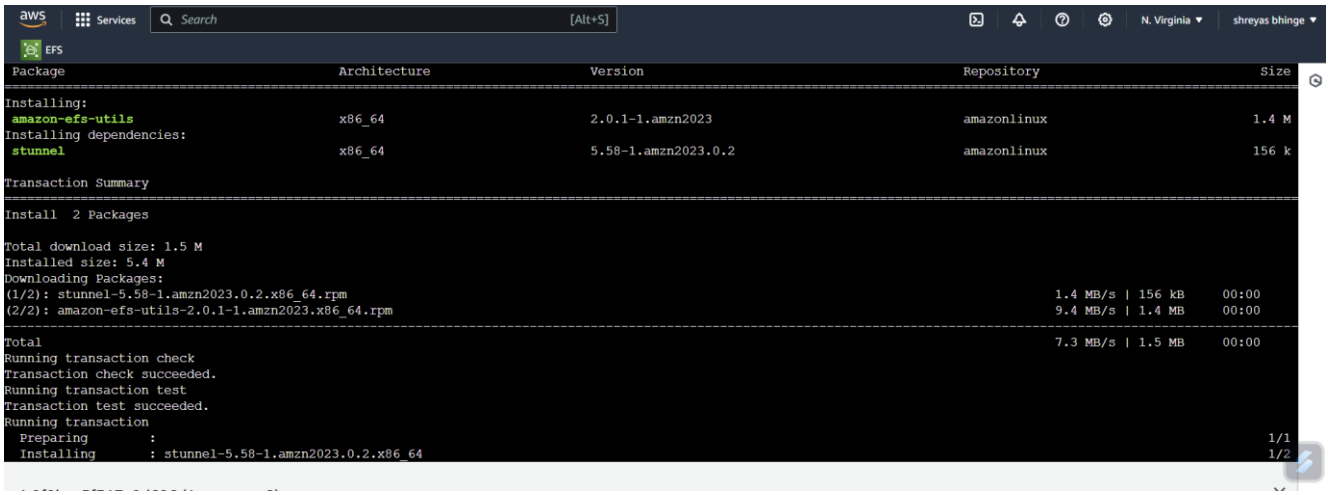
```
Sudo su
```

— Use below command to install efs utility

```
yum install -y amazon-efs-utils
```

Assignment EC2 and EFS





- Create a folder.

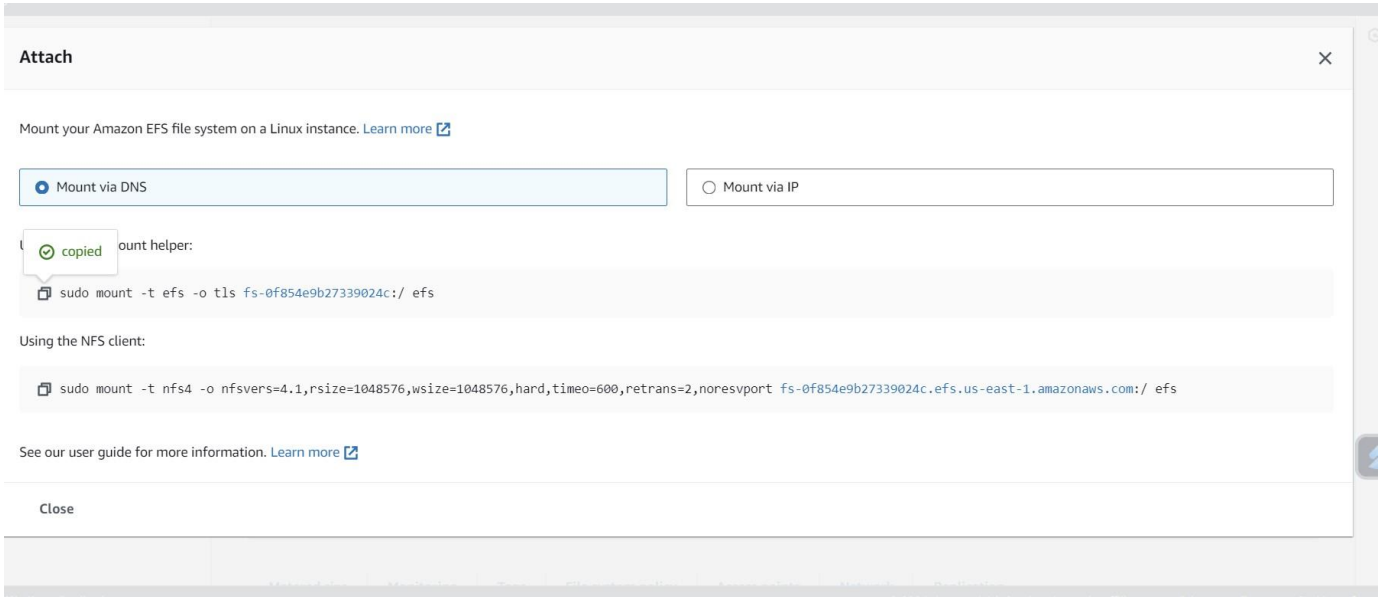
```
Mkdir efs
```

Next go to the efs file

Copy — Using the EFS mount helper as shown below (use your mount, below is just a sample)

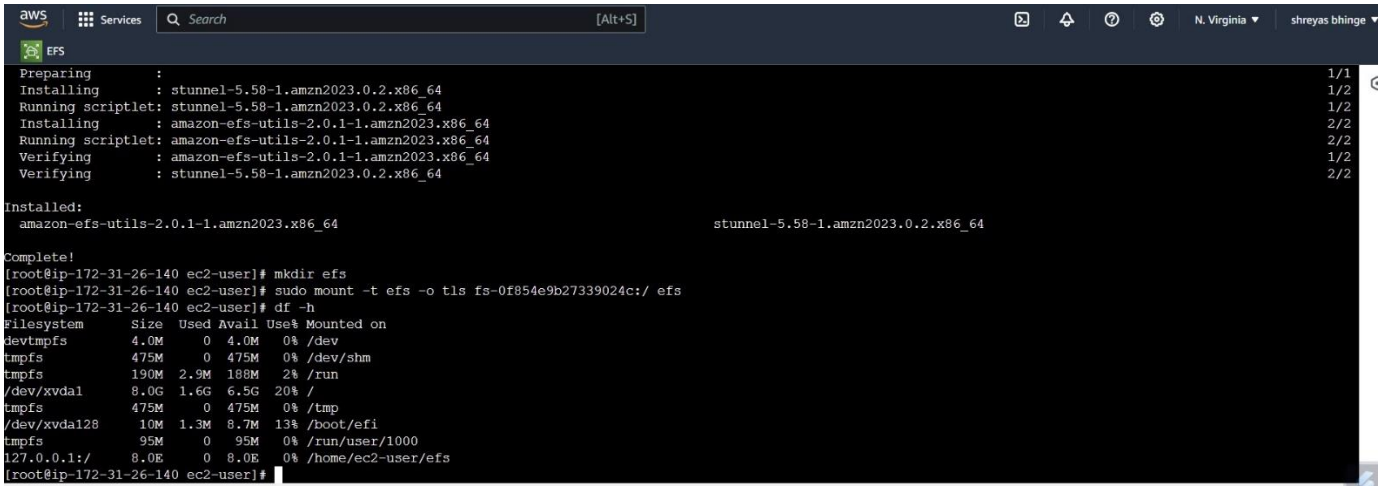
Assignment EC2 and EFS

```
sudo mount -t efs -o tls fs-0318d9f08d1068bd9:/ efs -
```



— Use below command to check the mounted files

```
df -h
```



2.Mounting efs to the ubuntu instance and redhat instance

Assignment EC2 and EFS

Use below commands to install the required packages to mount efs

```
sudo apt-get update

sudo apt install nfs-common -y $$ /

sudo systemct1 status nfs-utils
```

Mount the EFS Drive

Make a folder that EFS will be associated

```
sudo mkdir /mnt/efs
sudo mount -t efs -o tls fs-0318d9f08d1068bd9:/ /efs
cd efs
df -h
```