Module-2: EC2 and EFS Assignment - 3

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

Ans:

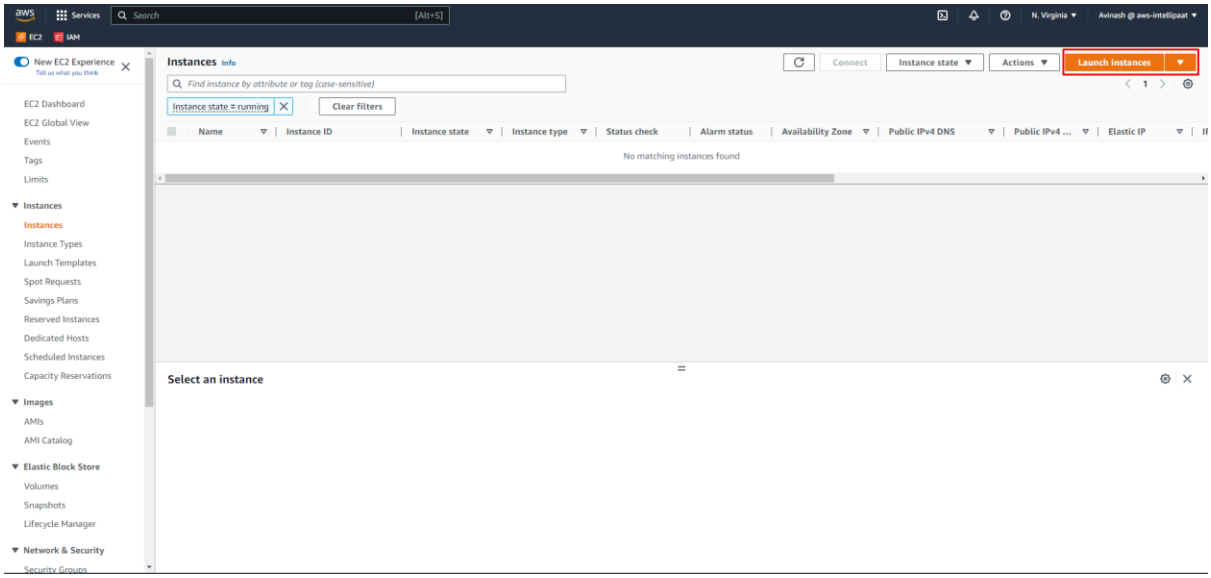
1. Open up the AWS Management Console

2. Check for the region [us-east-1(N. Virginia)]

3. Search for EC2 in the search box

4. Click on instances to go to the EC2 console

5. Click on Launch Instance



6. Setup the 1st instance using following configurations:

a. Name : AvinashAWS

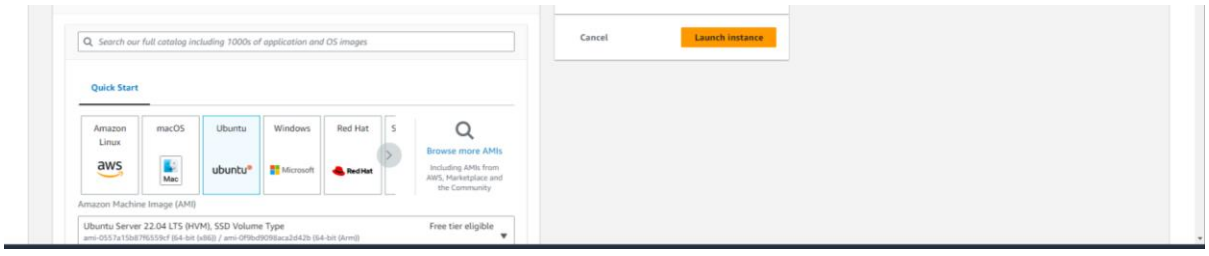
b. AMI : Quickstart >> UbuntuOS [Any version which is free tier eligible]

c. Instance type : t2.micro [free tier eligible]

d. Key-pair : Create a key pair [rsa and .pem]

e. Security group : Default

7. Click on Launch Instance.



8. Setup the 2nd instance using following configurations:

a. Name : AvinashAWS

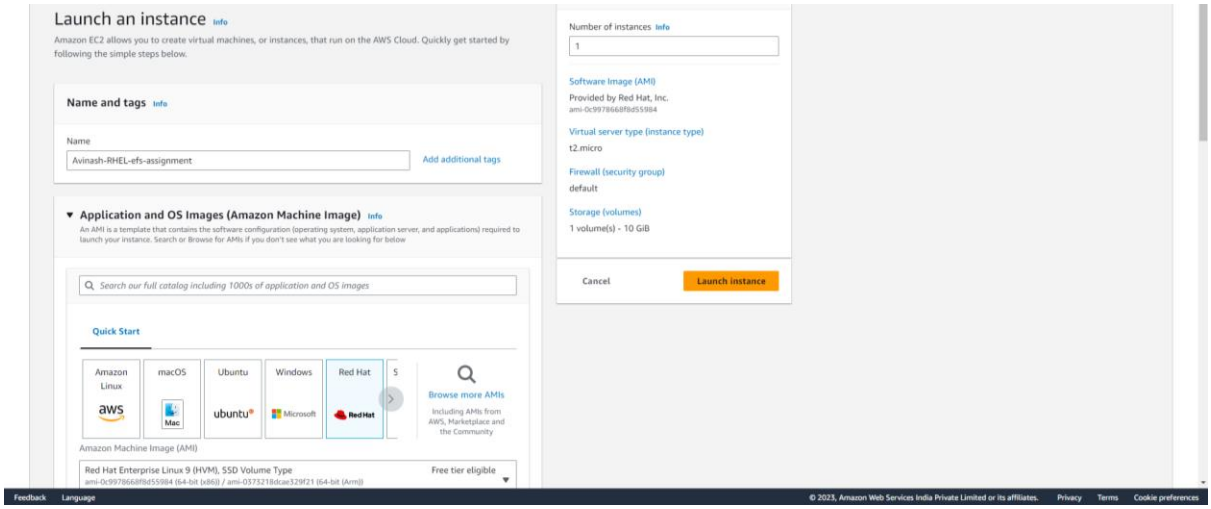
b. AMI : Quickstart >> Red Hat Linux [Any version which is free tier eligible]

c. Instance type : t2.micro [free tier eligible]

d. Key-pair : Create a key pair [rsa and .pem]

e. Security group : Default

9. Click on Launch Instance.



10. Setup the 3rd instance using following configurations:

a. Name : AvinashAWS

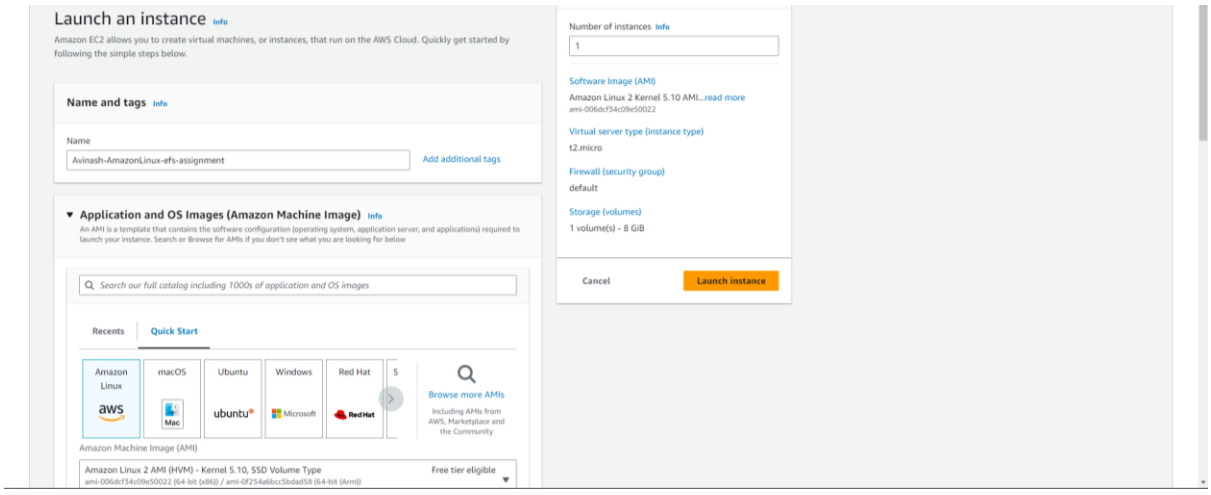
b. AMI : Quickstart >> Amazon Linux Machine [Any version which is free tier eligible]

c. Instance type : t2.micro [free tier eligible]

d. Key-pair : Create a key pair [rsa and .pem]

e. Security group : Default

11. Click on Launch Instance.



Now we will be creating an EFS Volume(Elastic File System) in AWS.

12. Search for EFS on the Search Bar

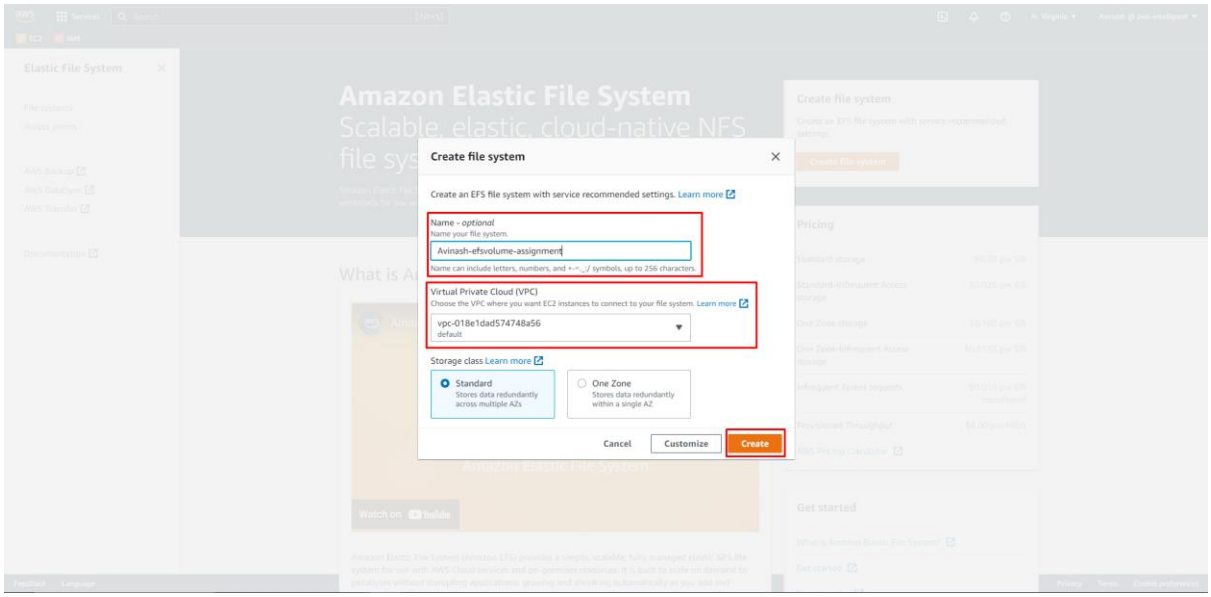
13. Click on Create a File System

14. Create a EFS Volume with the following characteristics:

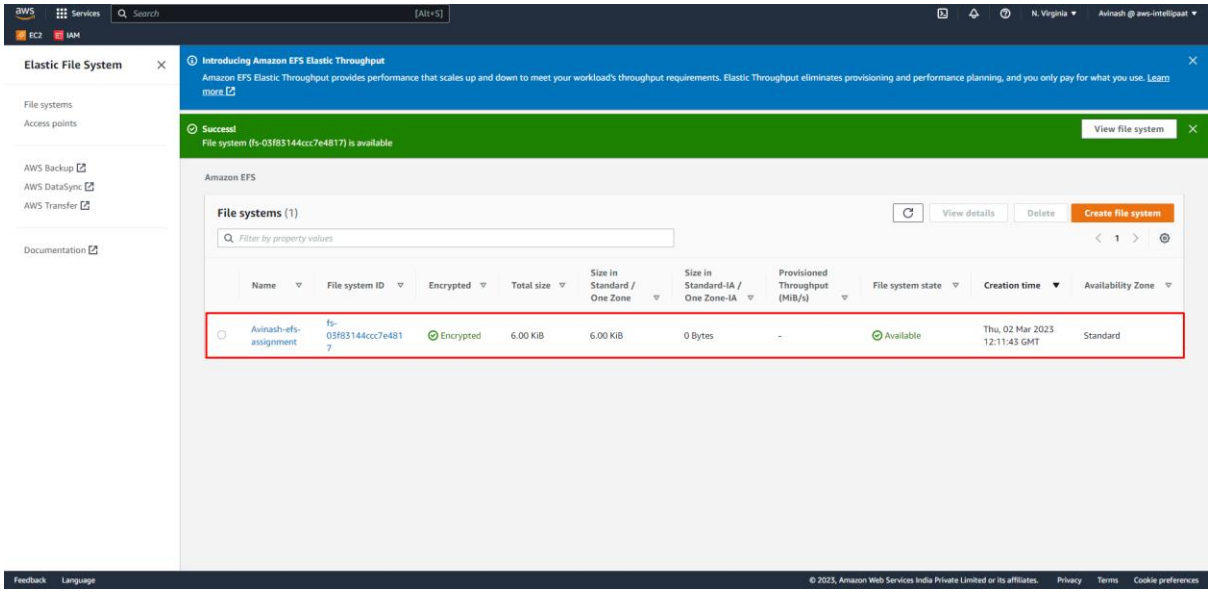
a. Name: Any name

b. VPC : should be same that you have used while creating the instance.

c. Storage Class: Standard



15. We will be seeing the EFS Volume created and is Available



Now we will attach this EFS to three EC2 instance that we have made previously.

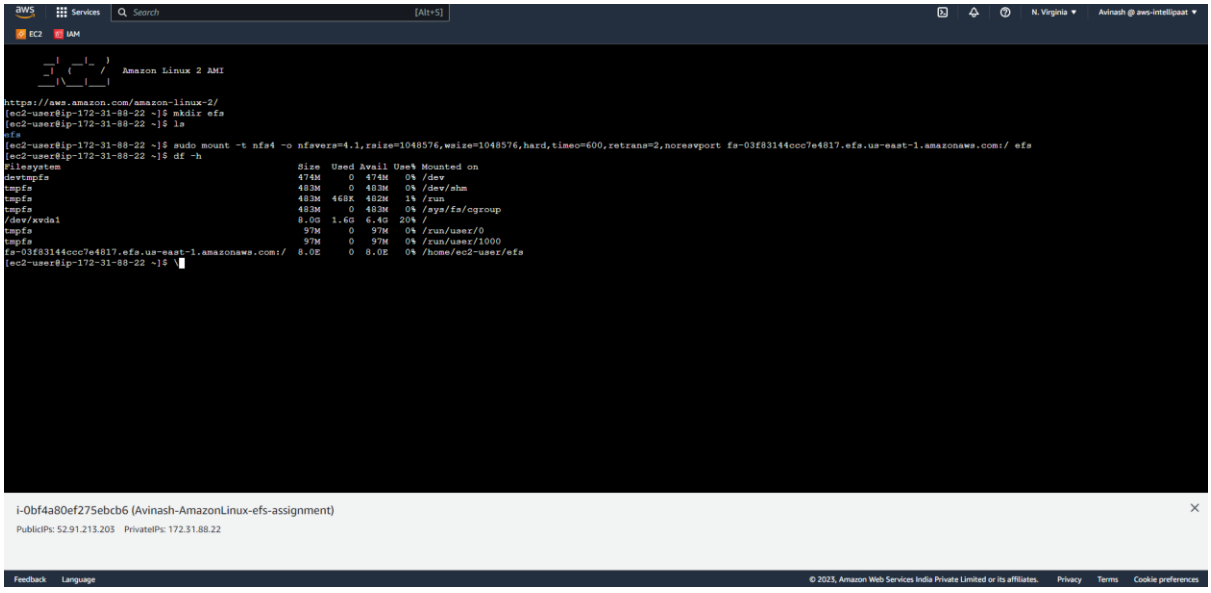
Amazon-Linux -> Already has amazon-efs-utils so directly make a directory and mount it

1. Make a directory named efs using the following command:

```
$ sudo mkdir efs
$ ls
```

2. Click on Attach button on EFS dashboard
3. Copy the command from Mount with DNS
4. Run the command in the machine.
5. Check the storage on the machine.

```
$ df -h
```



RHEL -> Import repositories from Github then install packages from that repo and then create a directory and mount it.

1. Install the package **nfs-common**

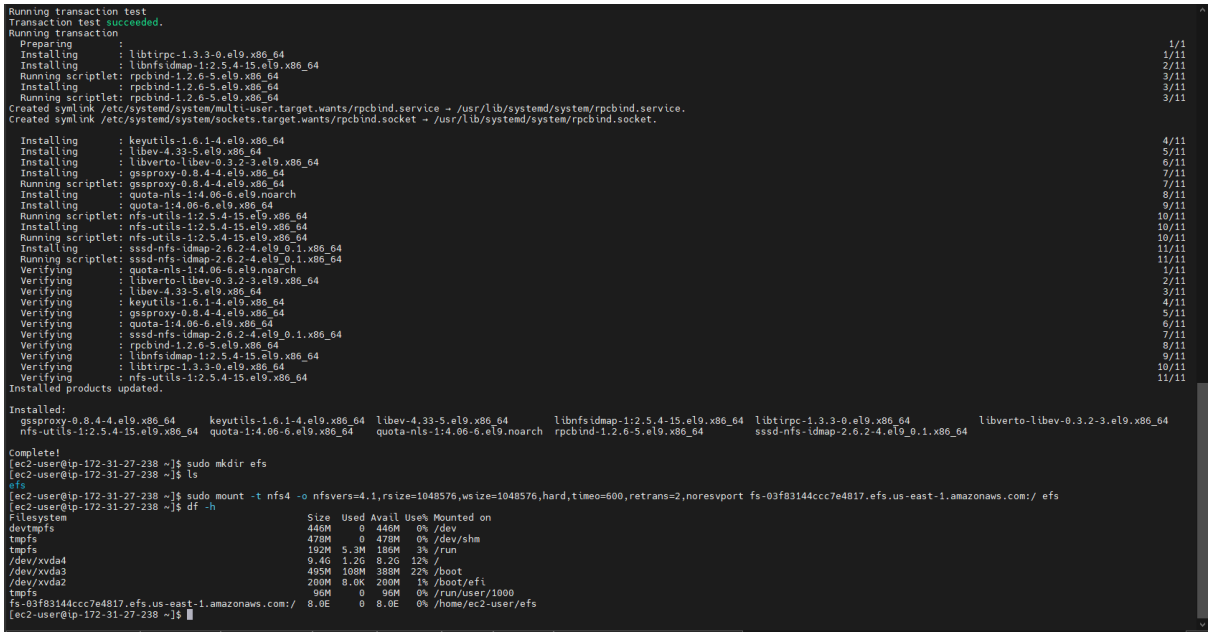
```
$ sudo yum install nfs-utils -y
```

2. Make a directory named **efs**

```
$ sudo mkdir efs
```

3. Click on Attach button on EFS dashboard
4. Copy the command from Mount with DNS
5. Run the command in the machine.
6. Check the storage on the machine.

```
$ df -h
```



Ubuntu -> install nfs-commons and then make a directory and mount it.

7. Install the package **nfs-common**

```
$ sudo apt-get install nfs-common -y
```

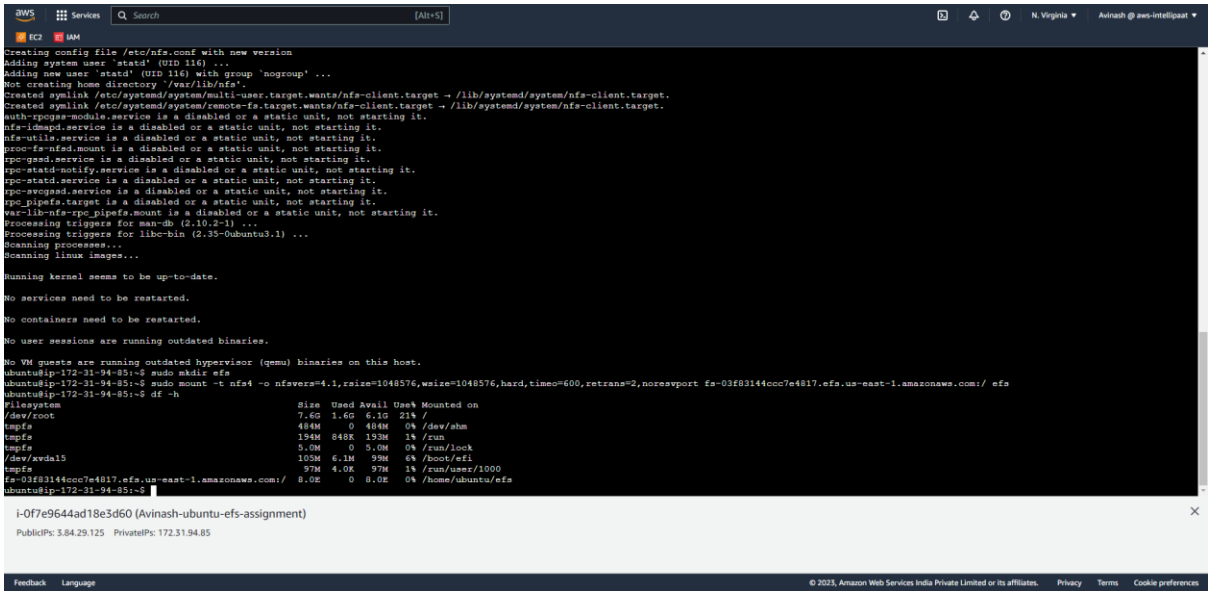
8. Make a directory named **efs**

```
$ sudo mkdir efs
```

9. Click on Attach button on EFS dashboard
10. Copy the command from Mount with DNS
11. Run the command in the machine.

12. Check the storage on the machine.

```
$ df -h
```



To detach the EFS Volume use the following command:

```
$ sudo umount efs
```