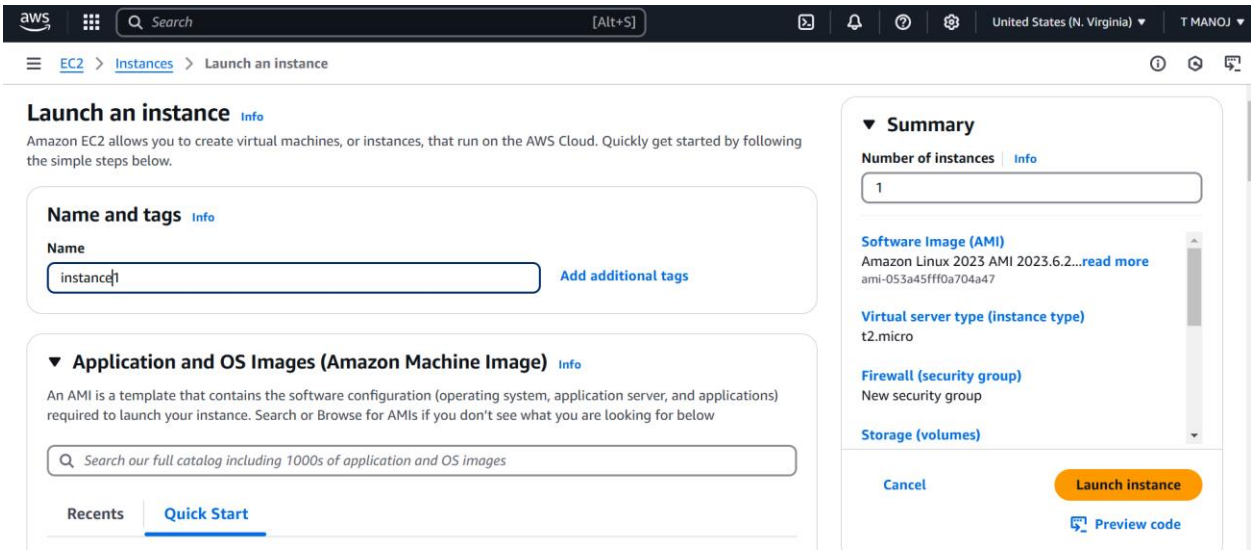
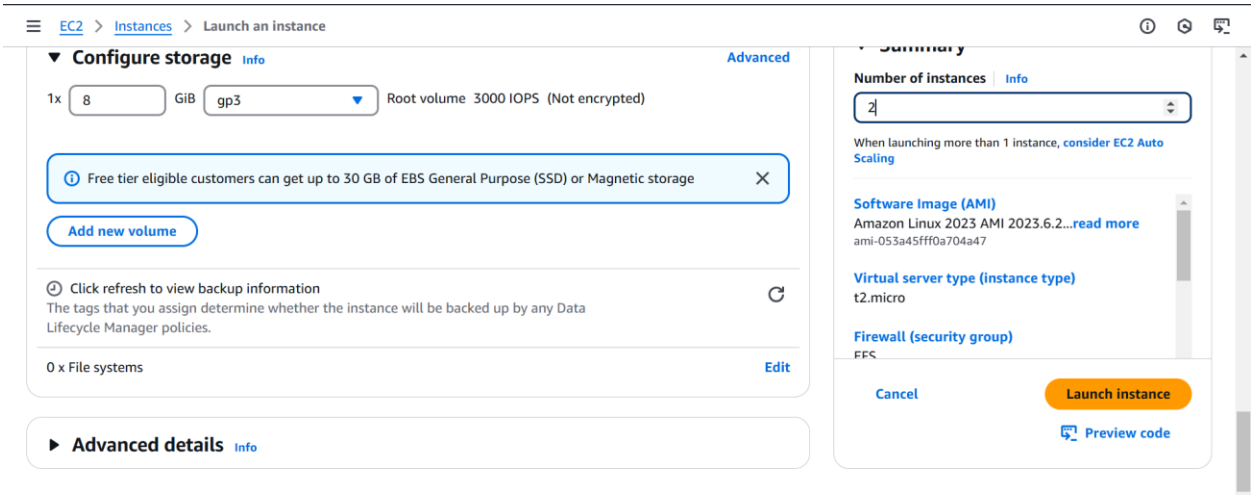
Steps to Create a Shared Volume in instances using EFS

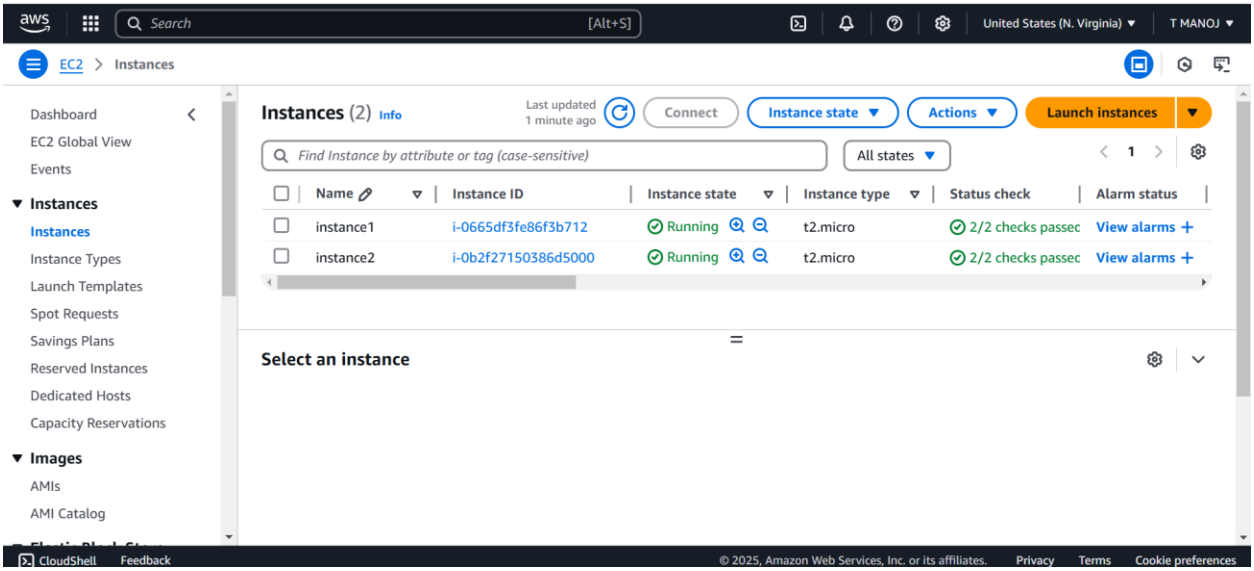
Name : T Manoj

1. **Create two EC2 instances in the same VPC.**





2. **Create a security group allowing NFS access on port 2049**



Create an Amazon EFS file system and attach it to the VPC.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Scalable, elastic, cloud-native NFS file system
Amazon Elastic File System (Amazon EFS) provides a simple, scalable, elastic file system for general purpose workloads for use with AWS Cloud services and on-premises resources.
Create file system
Create an EFS file system with recommended settings.
Create file system
Pricing
With EFS, there are no minimum fees. You pay only for the storage that you use, the data that you read and write, and any additional throughput that you provision.
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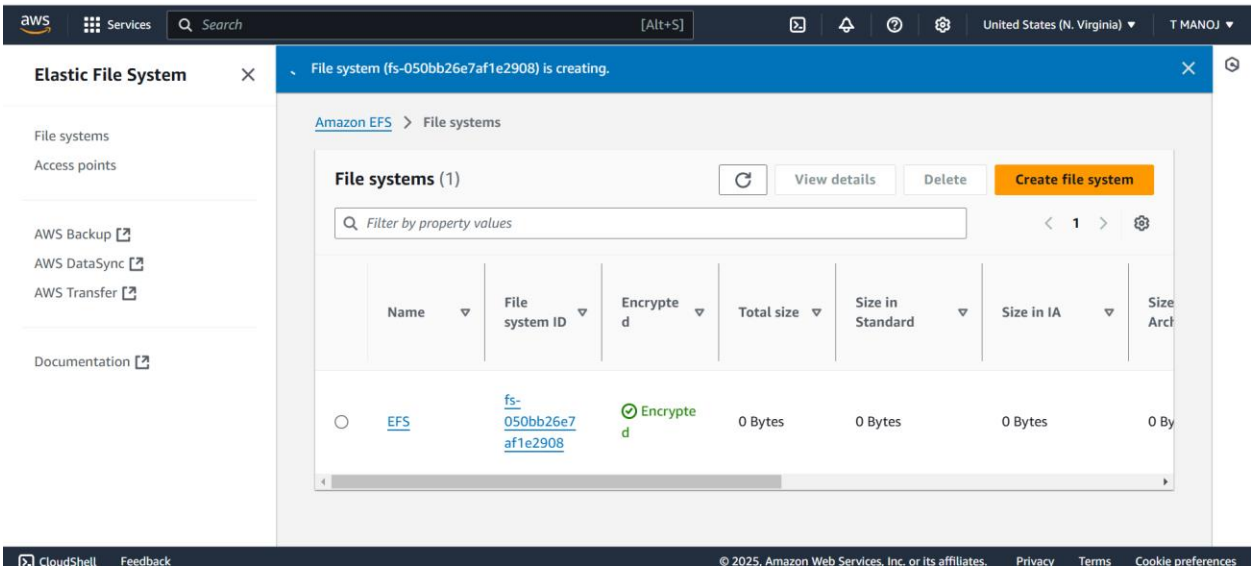
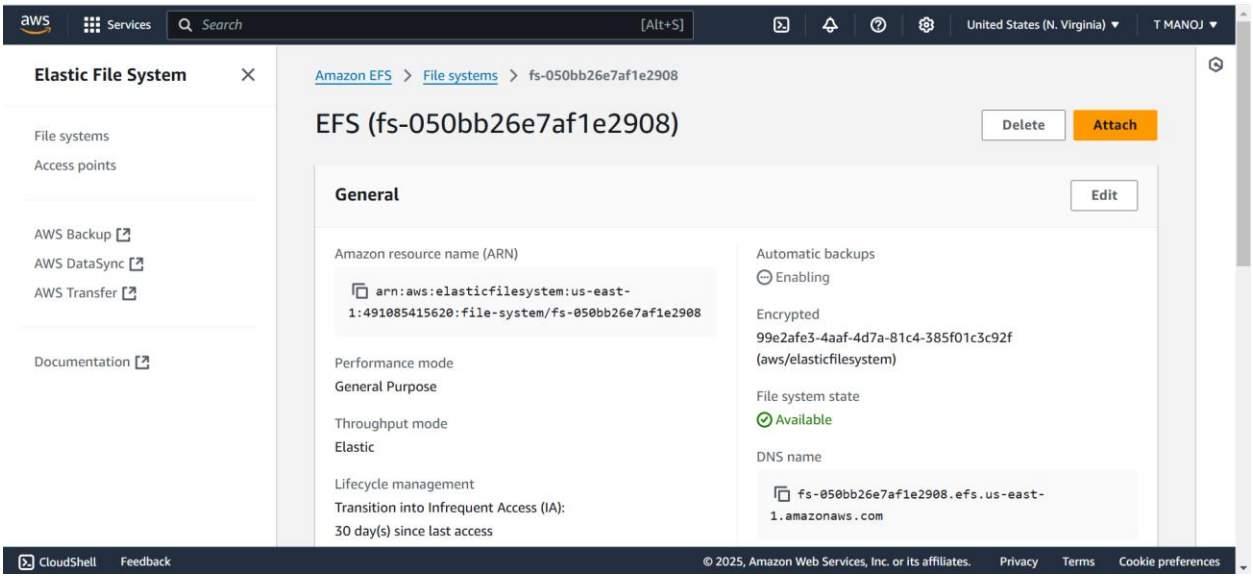
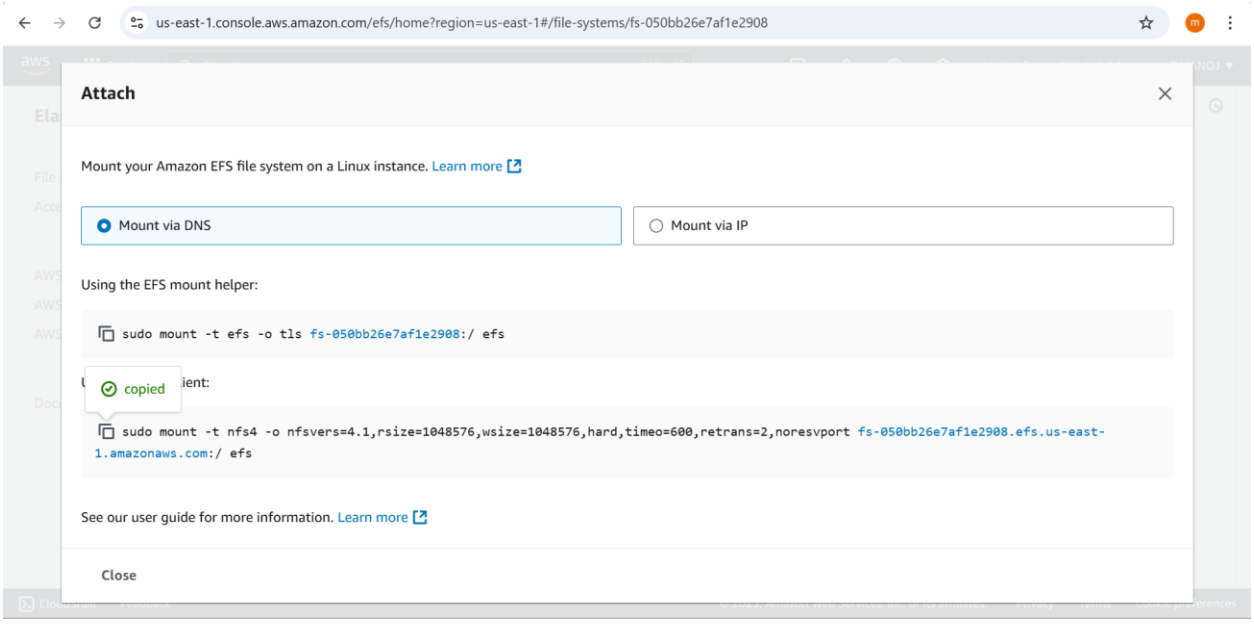
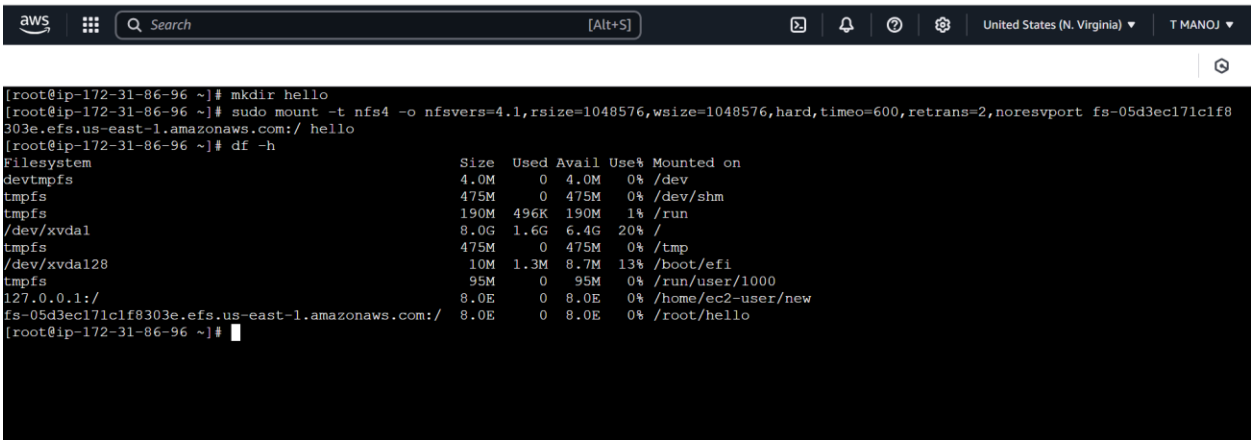


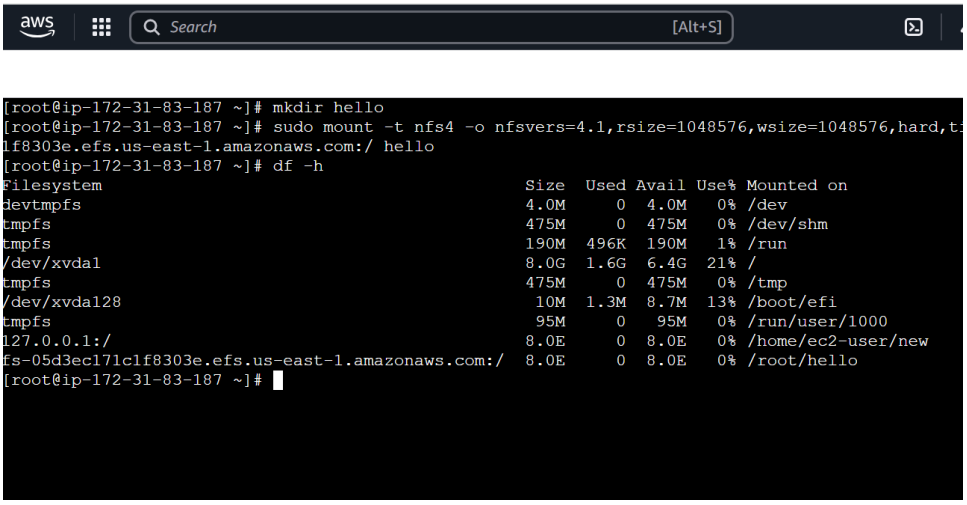
3. **Copy the mount command from the EFS Attach section.**





4. **Create a directory on both instances for mounting EFS.**

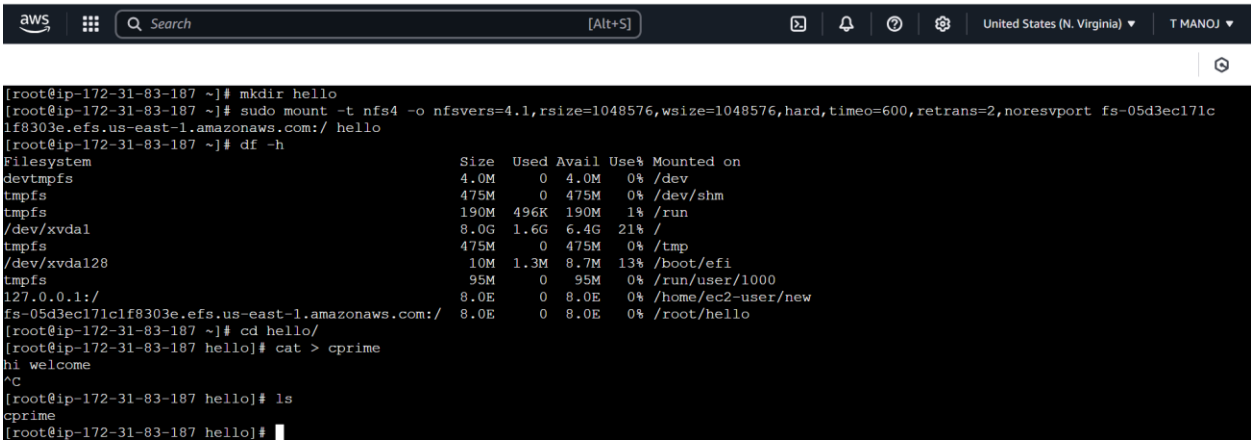




5. **Mount the EFS file system on both instances using the copied command.**

```
[root@ip-172-31-86-96 ~]# mkdir hello
[root@ip-172-31-86-96 ~]# sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport fs-05d3ec171c1f8
303e.efs.us-east-1.amazonaws.com:/ hello
[root@ip-172-31-86-96 ~]# df -h
Filesystem                                      Size  Used Avail Use% Mounted on
devtmpfs                                        4.0M     0  4.0M   0% /dev
tmpfs                                           475M     0  475M   0% /dev/shm
tmpfs                                           190M  496K  190M   1% /run
/dev/xvda1                                      8.0G  1.6G  6.4G  20% /
tmpfs                                           475M     0  475M   0% /tmp
/dev/xvda128                                     10M  1.3M  8.7M  13% /boot/efi
tmpfs                                            95M     0   95M   0% /run/user/1000
127.0.0.1:/                                     8.0E     0  8.0E   0% /home/ec2-user/new
fs-05d3ec171c1f8303e.efs.us-east-1.amazonaws.com:/  8.0E     0  8.0E   0% /root/hello
[root@ip-172-31-86-96 ~]# cd hello/
[root@ip-172-31-86-96 hello]# ls
cprime
[root@ip-172-31-86-96 hello]# cat cprime
hi welcome
[root@ip-172-31-86-96 hello]#
```

6. **Create a test file in the mounted directory on one instance and Verify file accessibility from the second instance.**




```
[root@ip-172-31-83-187 ~]# mkdir hello
[root@ip-172-31-83-187 ~]# sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport fs-05d3ec171c
1f8303e.efs.us-east-1.amazonaws.com:/ hello
[root@ip-172-31-83-187 ~]# df -h
Filesystem                                      Size  Used Avail Use% Mounted on
devtmpfs                                        4.0M     0  4.0M   0% /dev
tmpfs                                           475M     0  475M   0% /dev/shm
tmpfs                                           190M  496K  190M   1% /run
/dev/xvda1                                      8.0G  1.6G  6.4G  21% /
tmpfs                                           475M     0  475M   0% /tmp
/dev/xvda128                                     10M  1.3M  8.7M  13% /boot/efi
tmpfs                                            95M     0   95M   0% /run/user/1000
127.0.0.1:/                                     8.0E     0  8.0E   0% /home/ec2-user/new
fs-05d3ec171c1f8303e.efs.us-east-1.amazonaws.com:/  8.0E     0  8.0E   0% /root/hello
[root@ip-172-31-83-187 ~]# cd hello/
[root@ip-172-31-83-187 hello]# cat > cprime
hi welcome
^C
[root@ip-172-31-83-187 hello]# ls
cprime
[root@ip-172-31-83-187 hello]#
```