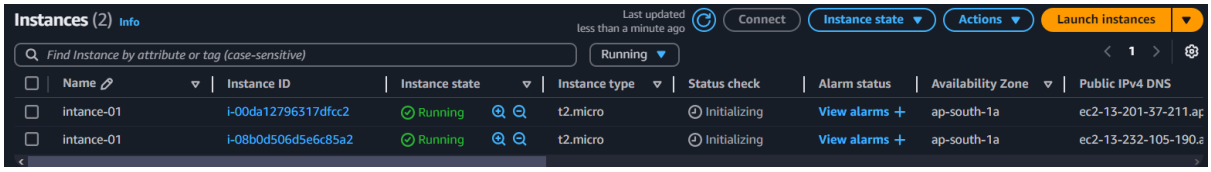
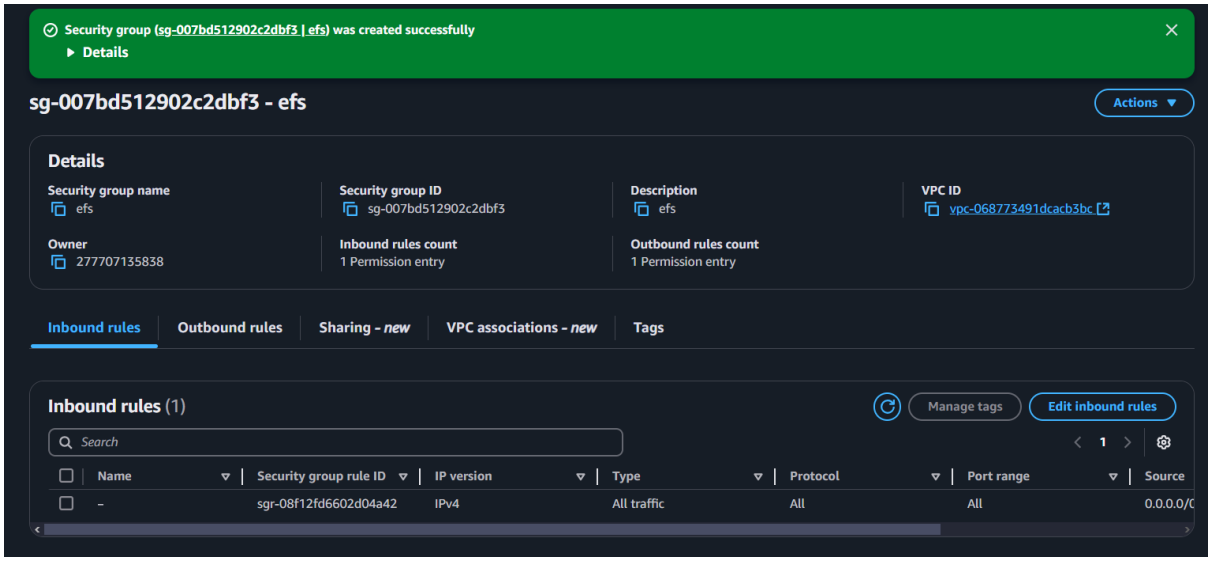
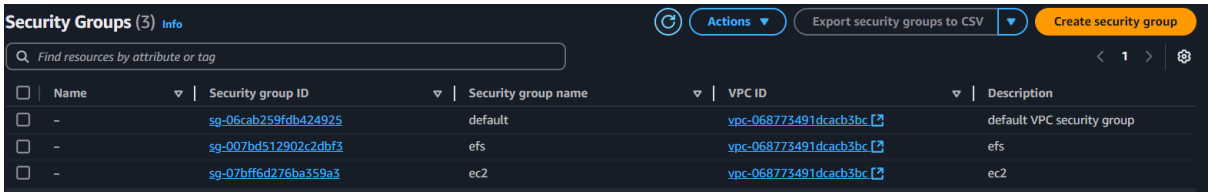
# EFS – Elastic File Systems

## Step-1: Create 2 instance on same availability zone

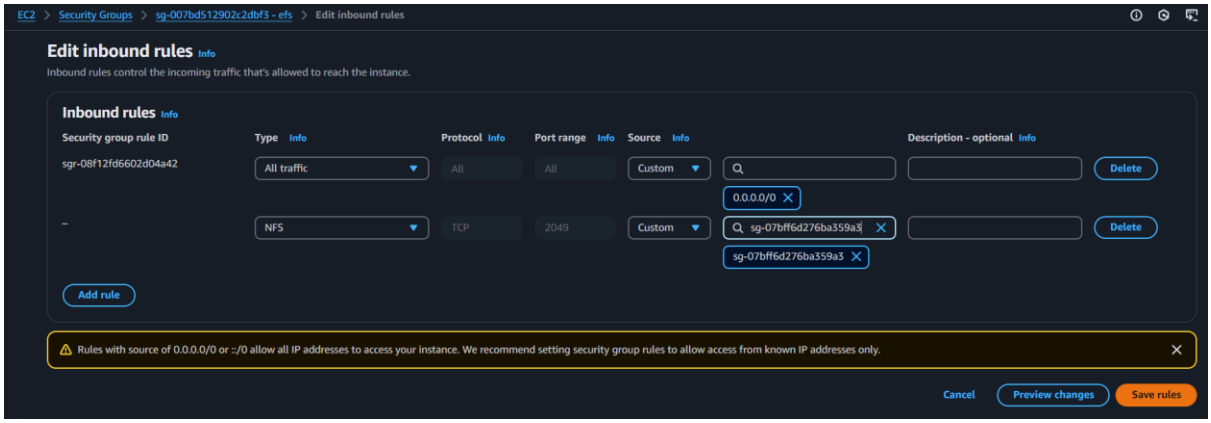



## Step-2: Create a security group

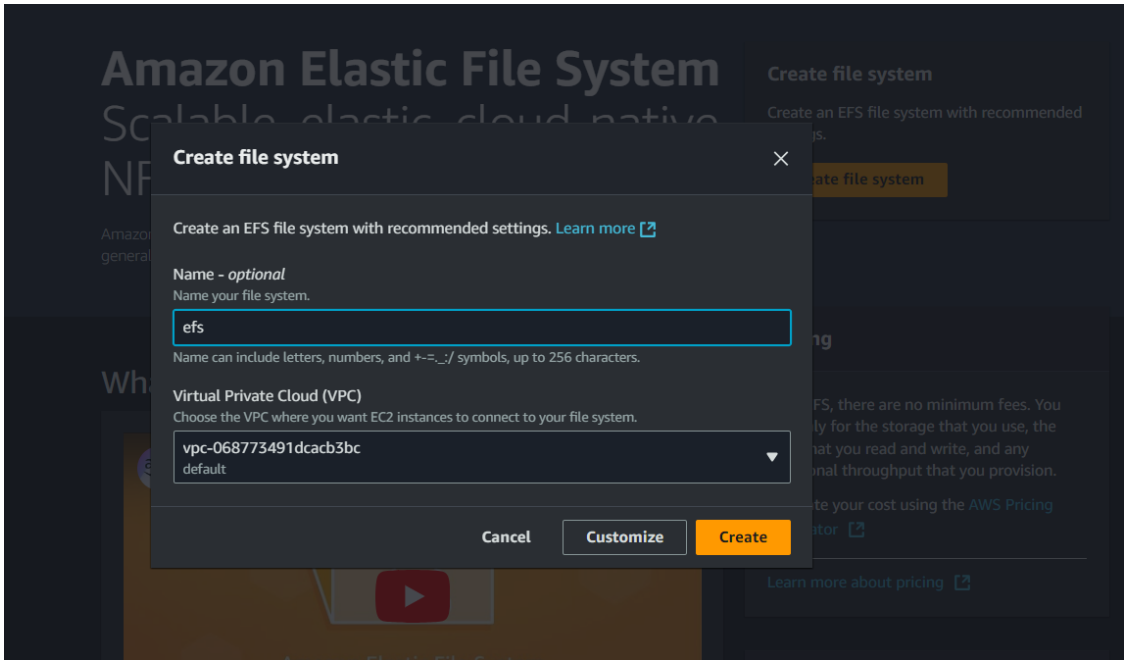


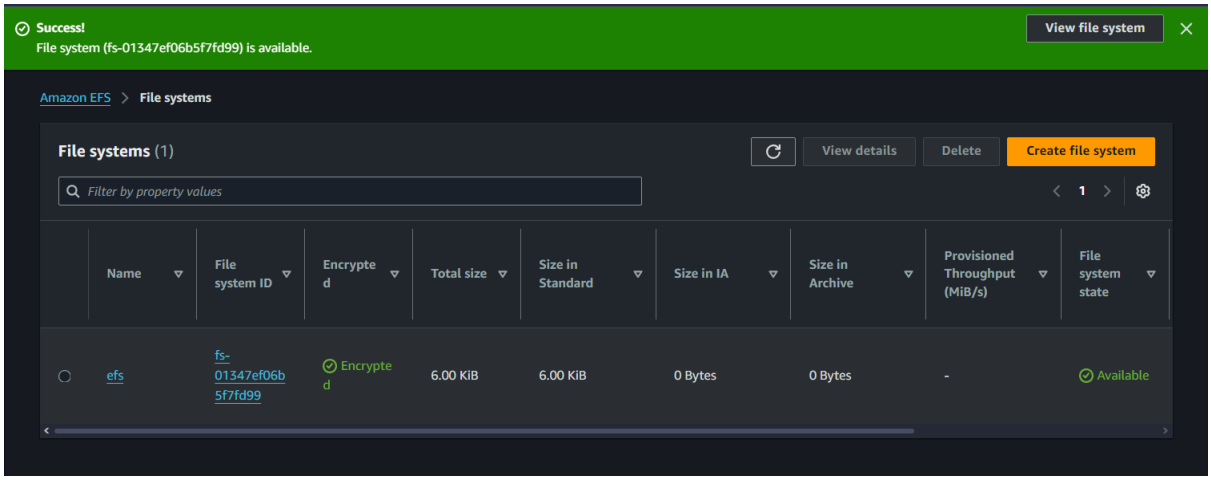



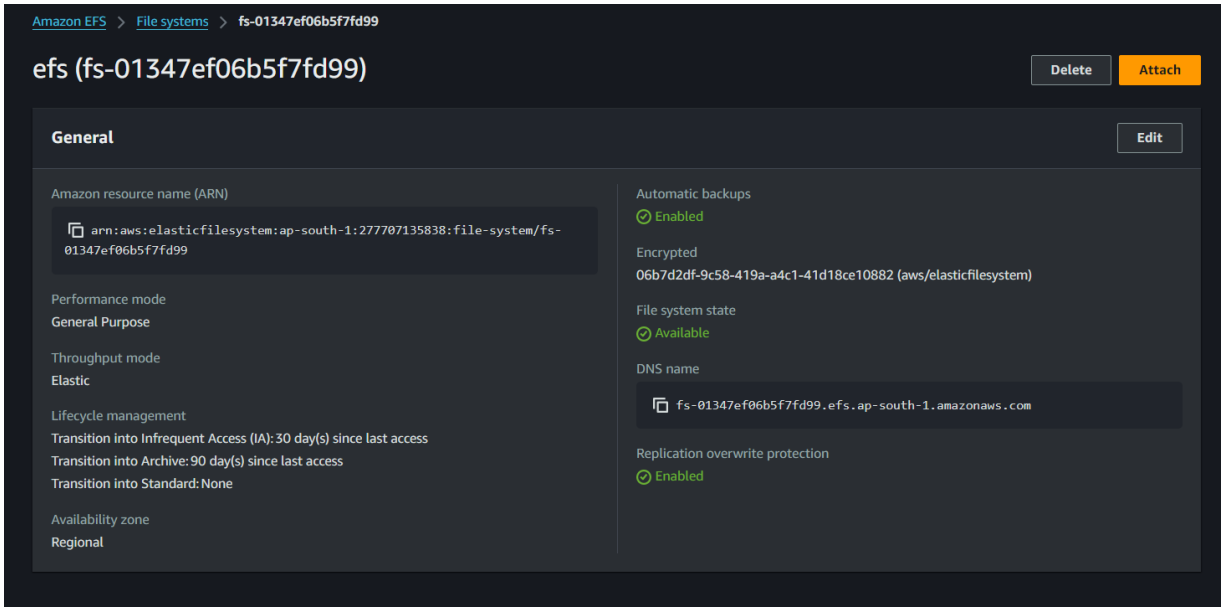

## Step-3: add inbound rules for efs security group with ec2 security group only



Step-4: Create a EFS



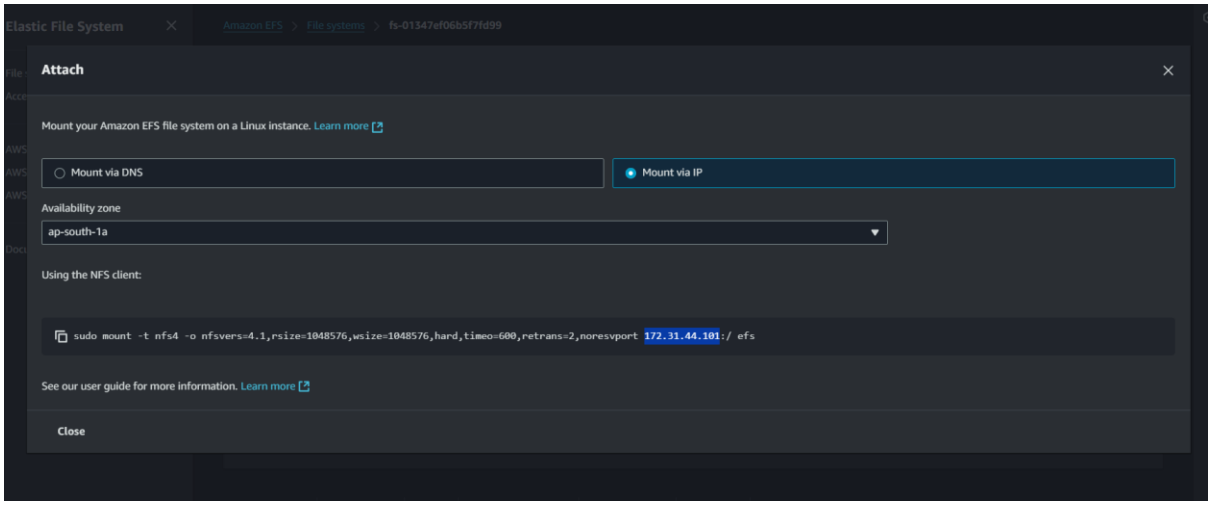



Step-5: Attach the efs in ec2 instance

Connect the instance-01

```
Installed:
  telnet-1:0.17-83.amzn2023.0.2.x86_64

Complete!
[root@ip-172-31-44-120 ~]#
```




# telnet efs_ip port_no

```
[root@ip-172-31-44-120 ~]# telnet 172.31.44.101 2049
Trying 172.31.44.101...
Connected to 172.31.44.101.
Escape character is '^]'.
^]
telnet> Connection closed.
```

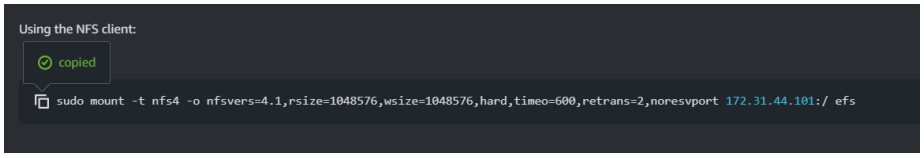
To exit telnet: crtl + ]

crtl + D

Step-6: now mount the efs to the ec2 instance

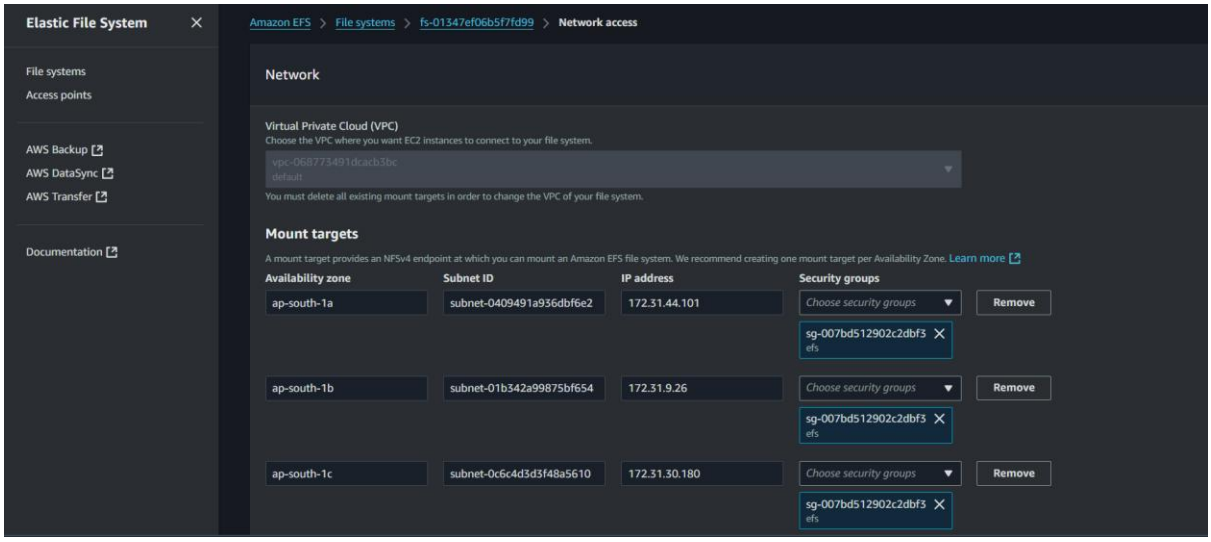
Create a directory (i.e. mkdir -p /share/efs)

```
[root@ip-172-31-44-120 ~]# mkdir -p /share/efs
[root@ip-172-31-44-120 ~]# sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport 172.31.44.101:/ /share/efs
```




Step-7: repeat step-5,6 in another instance for checking the files shared or not

Step-8: Change the network security group in EFS to efs security group




Step-9: Open the first instance and check in mounted directory and create some files and list it

```
[root@ip-172-31-44-120 ~]# cd /share/efs/
[root@ip-172-31-44-120 efs]# ll
total 0
[root@ip-172-31-44-120 efs]# touch file{1..5}
[root@ip-172-31-44-120 efs]# ls
file1  file2  file3  file4  file5
```

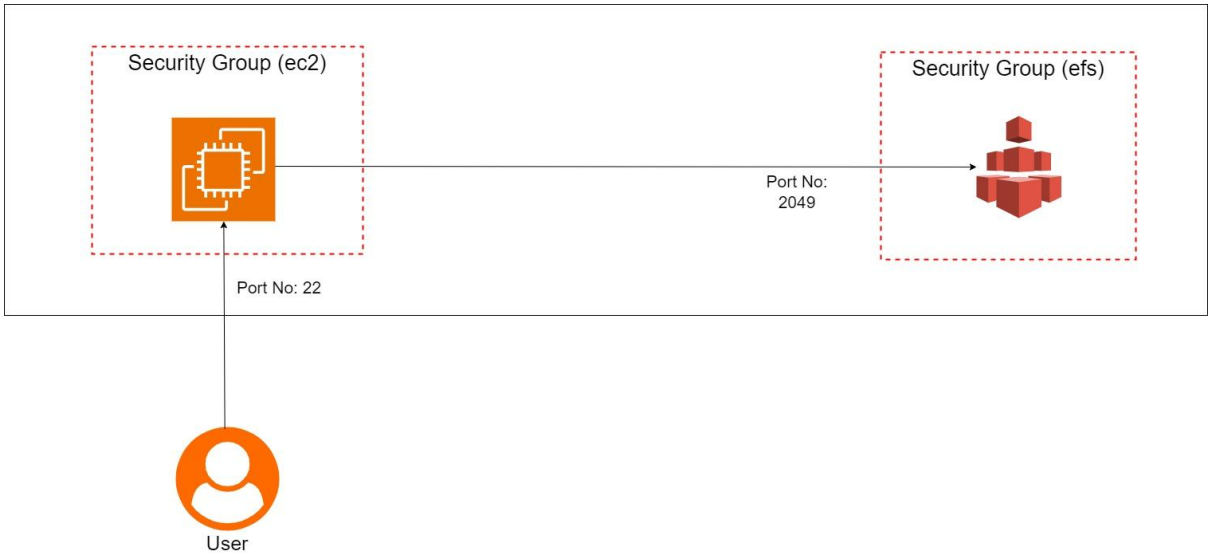
Step-10: Connect in 2nd instance and check the mounted directory.

```
[root@ip-172-31-37-43 ~]# cd /share/efs/
[root@ip-172-31-37-43 efs]# ls
file1  file2  file3  file4  file5
```

Step-11: create a new file in 2nd instance and check in 1st instance

```
[root@ip-172-31-37-43 efs]# touch smaple
[root@ip-172-31-37-43 efs]# ls
file1  file2  file3  file4  file5  smaple
```

```
[root@ip-172-31-44-120 efs]# ls
file1  file2  file3  file4  file5  smaple
```


Security Group (ec2)
Security Group (efs)
Port No:
2049
Port No: 22
User