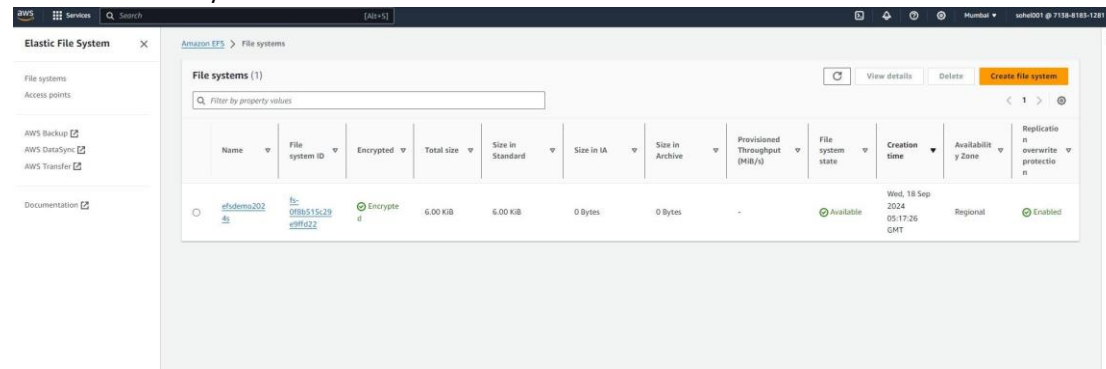


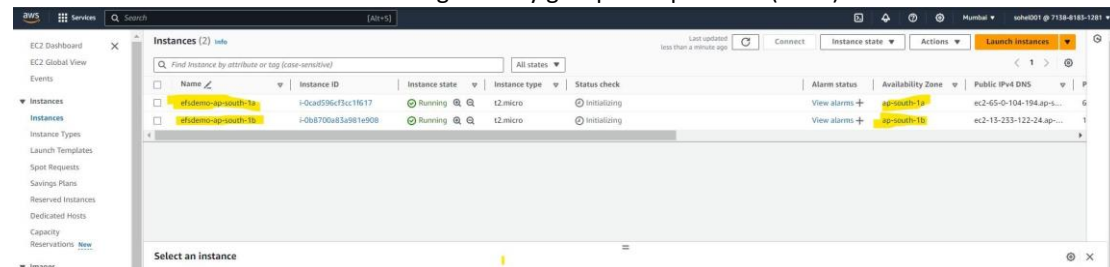
# AWS EFS(Elastic File System)

Ritesh Deshmukh

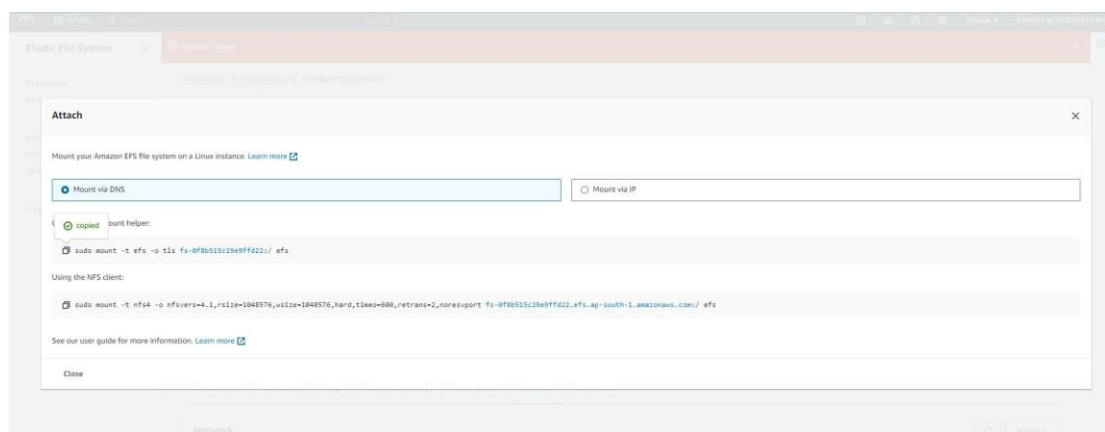
## 1. Create EFS file system



## 2. Create 2 instances with two AZ having security group with port NFS (2049)



## 3. Security group mounted on EFS(Elastic File System)



Services

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Elastic File System

File systems

Access points

AWS Backup

AWS DataSync

AWS Transfer

Documentation

General Purpose

Throughput mode

Elastic

Lifecycle management

Transition into Infrequent Access (IA): 30 day(s) since last access

Transition into Archive: 90 day(s) since last access

Transition into Standard: None

Availability zone

Regional

Enabled

Encrypted

3eabc223-30de-4a7b-8c6b-8370f4d2dc21 (aws:elasticfilesystem)

File system state

Available

DNS name

fs-0f8b515c29e9ffd22.efs.ap-south-1.amazonaws.com

Replication overwrite protection

Enabled

Metered size

Monitoring

Tags

File system policy

Access points

Network

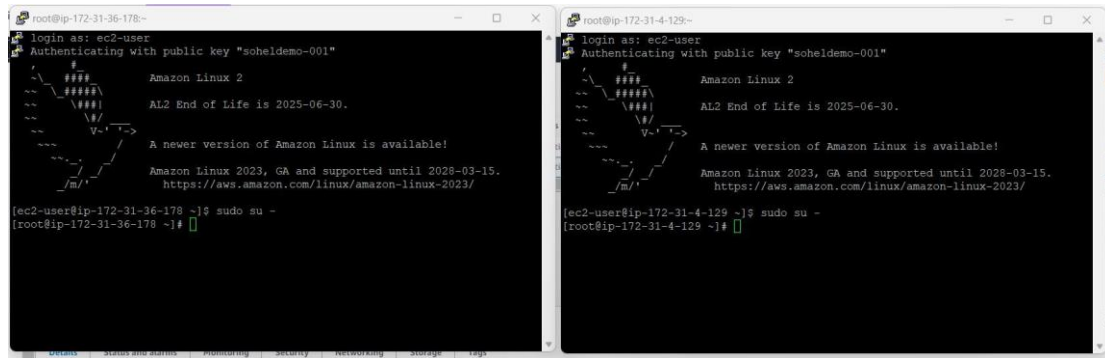
Replication

Network

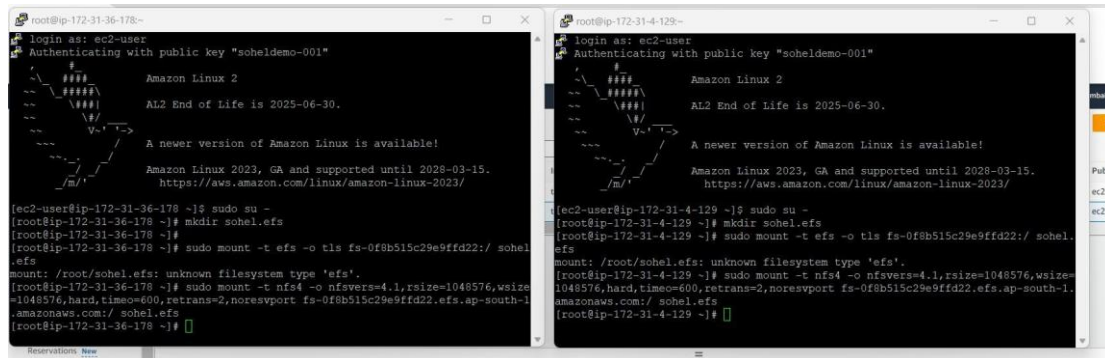
Manage

Availability zone (AZ-ID)	Mount target ID	Subnet ID	Mount target state	IP address	Network interface ID	Security groups
ap-south-1a (ap1-a1)	fsmt-09cd9a799e2f94713	subnet-07f4b7a274e06117f	Available	172.31.35.186	eni-036da6f1072fe04a0	sg-0e19b7d9639e516f tf-sgdemo2024
ap-south-1b (ap1-a3)	fsmt-0f2a00c280fc72932	subnet-01a5204c16ddc4f9b	Available	172.31.2.248	eni-06f86d76c8062e1d9	sg-0e19b7d9639e516f tf-sgdemo2024
ap-south-1c (ap1-a2)	fsmt-0a052e534b08f8f4	subnet-0c769035a3187f35c	Available	172.31.29.13	eni-02ab33953048859ac	sg-0e19b7d9639e516f tf-sgdemo2024

Connect both instances via Putty



6.Create directory on both instance and via EFS command



7.EFS have been successfully mounted on vm

```
root@ip-172-31-36-178- ~
[root@ip-172-31-36-178 ~]#
[root@ip-172-31-36-178 ~]# sudo mount -t nfs fs-0f8b515c29e9ffd22:/ /s0hel
efs
mount: /root/s0hel.efs: unknown filesystem type 'efs'.
[root@ip-172-31-36-178 ~]# sudo mount -t nfs4 -o nfsvers=4.1,si=1048576,wsiz=
1048576,hard,timeo=600,retr=2,norepport fs-0f8b515c29e9ffd22.efs.ap-south-1
.amazonaws.com:/ /s0hel.efs
[root@ip-172-31-36-178 ~]# df -h
bash: df-h: command not found
[root@ip-172-31-36-178 ~]# df -h
Filesystem                Size      Used Avail Use% Mounted on
devtmpfs                   467M        0   467M    0% /dev
tmpfs                      477M        0   477M    0% /dev/shm
tmpfs                      477M    408K   476M    1% /run
tmpfs                      477M        0   477M    0% /sys/fs/cgroup
/dev/xvda1                 8.0G    1.8G   6.3G   23% /
tmpfs                      96M        0    96M    0% /run/
user/1000
fs-0f8b515c29e9ffd22.efs.ap-south-1.amazonaws.com:/ /s0hel.efs
[root@ip-172-31-36-178 ~]#

root@ip-172-31-4-129- ~
[ec2-user@ip-172-31-4-129 ~]# sudo su -
[root@ip-172-31-4-129 ~]# mkdir /s0hel.efs
[root@ip-172-31-4-129 ~]# sudo mount -t nfs -o nfsvers=4.1,si=1048576,wsiz=
1048576,hard,timeo=600,retr=2,norepport fs-0f8b515c29e9ffd22.efs.ap-south-1
.amazonaws.com:/ /s0hel.efs
[root@ip-172-31-4-129 ~]# df -h
Filesystem                Size      Used Avail Use% Mounted on
devtmpfs                   467M        0   467M    0% /dev
tmpfs                      477M        0   477M    0% /dev/shm
tmpfs                      477M    408K   476M    1% /run
tmpfs                      477M        0   477M    0% /sys/fs/cgroup
/dev/xvda1                 8.0G    1.8G   6.3G   23% /
tmpfs                      96M        0    96M    0% /run/
user/1000
fs-0f8b515c29e9ffd22.efs.ap-south-1.amazonaws.com:/ /s0hel.efs
[root@ip-172-31-4-129 ~]#
```

8. now create file in 1a it visible in 1b

```

root@ip-172-31-36-178:~/s0halefs
└─$ login --id=001
Authenticating with public key "soheldemo-001"
Last login: Wed Sep 18 05:40:29 2024 from 42.104.224.38

      #####
     _##_/
    _###/
   _###/
  _###/
 _###/
##_/

      AL2 End of Life is 2025-06-30.

      A newer version of Amazon Linux is available!

      Amazon Linux 2023, GA and supported until 2028-03-15.
      https://aws.amazon.com/linux/amazon-linux-2023/

[ec2-user@ip-172-31-36-178 ~]$ sudo su-
sudo: su- command not found

[ec2-user@ip-172-31-36-178 ~]$ sudo su -
Last login: Wed Sep 18 05:40:35 UTC 2024 on pts/0
root@ip-172-31-36-178 ~# cd /root/.ssh/s0halefs
root@ip-172-31-36-178 sohale.fs# ls -ltr
total 8
-rw-r--r-- 1 root root 9 Sep 18 05:53 efsa-file12
-rw-r--r-- 1 root root 9 Sep 18 05:53 devops.txt
root@ip-172-31-36-178 sohale.fs# cd /

root@ip-172-31-4-129:~/s0halefs
└─$ login --id=001
Authenticating with public key "soheldemo-001"
Last login: Wed Sep 18 05:40:29 2024 from 42.104.224.38

      #####
     _##_/
    _###/
   _###/
  _###/
 _###/
##_/

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[ec2-user@ip-172-31-4-129 ~]$ sudo su-
sudo: su- command not found

[ec2-user@ip-172-31-4-129 ~]$ sudo su -
Last login: Wed Sep 18 05:40:35 UTC 2024 on pts/0
root@ip-172-31-4-129 ~# cd /root/.ssh/s0halefs
root@ip-172-31-4-129 sohale.fs# ls -ltr
total 8
-rw-r--r-- 1 root root 9 Sep 18 05:53 efsa-file12
-rw-r--r-- 1 root root 9 Sep 18 05:53 devops.txt
root@ip-172-31-4-129 sohale.fs# cd /

```

