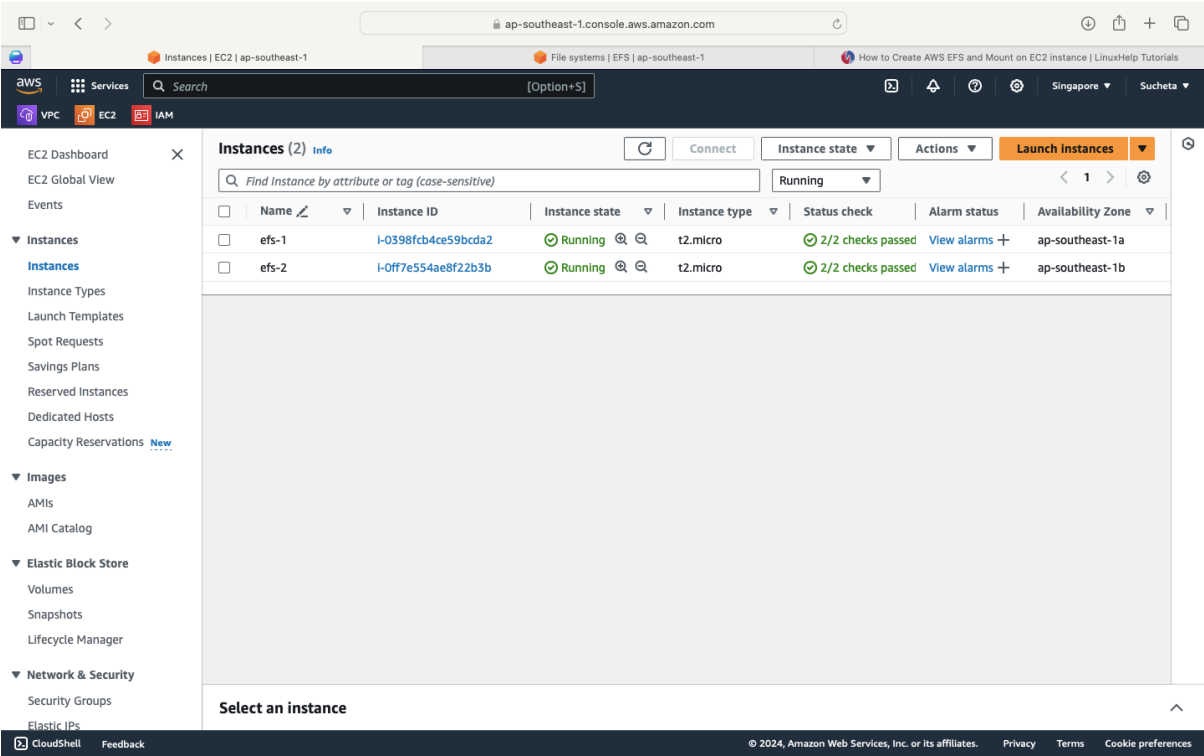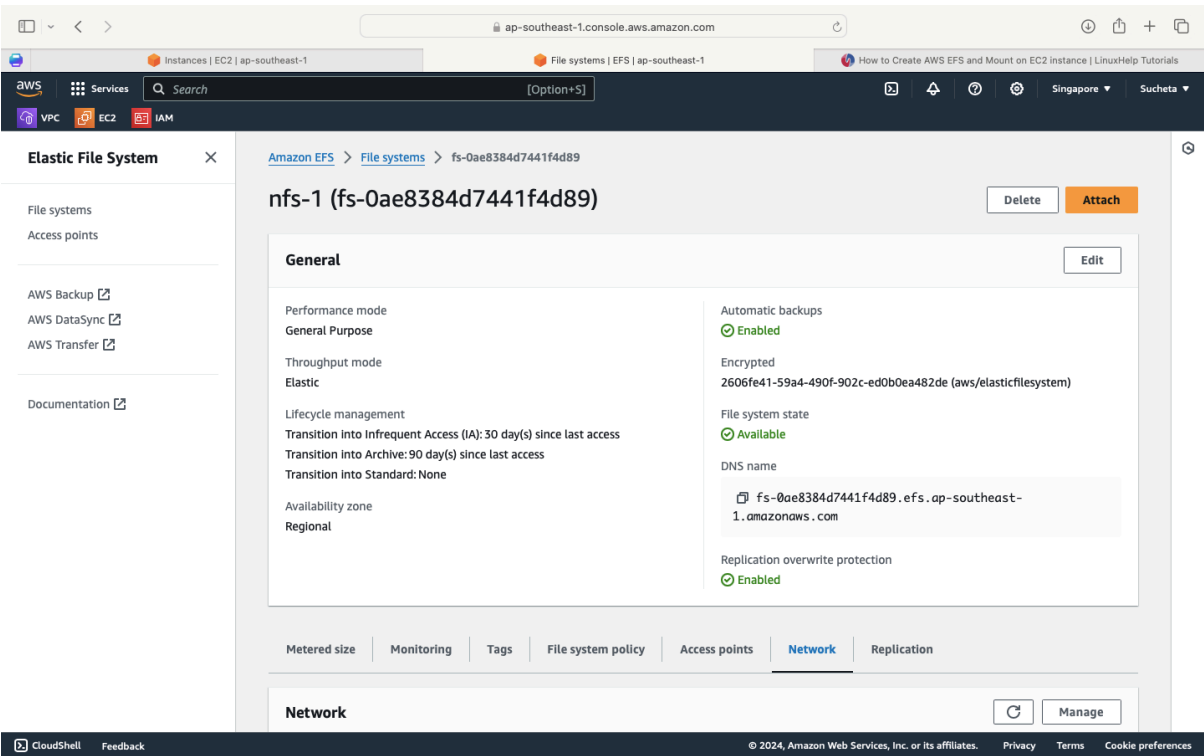Wednesday, 6 March 2024

Centralised storage (EFS)
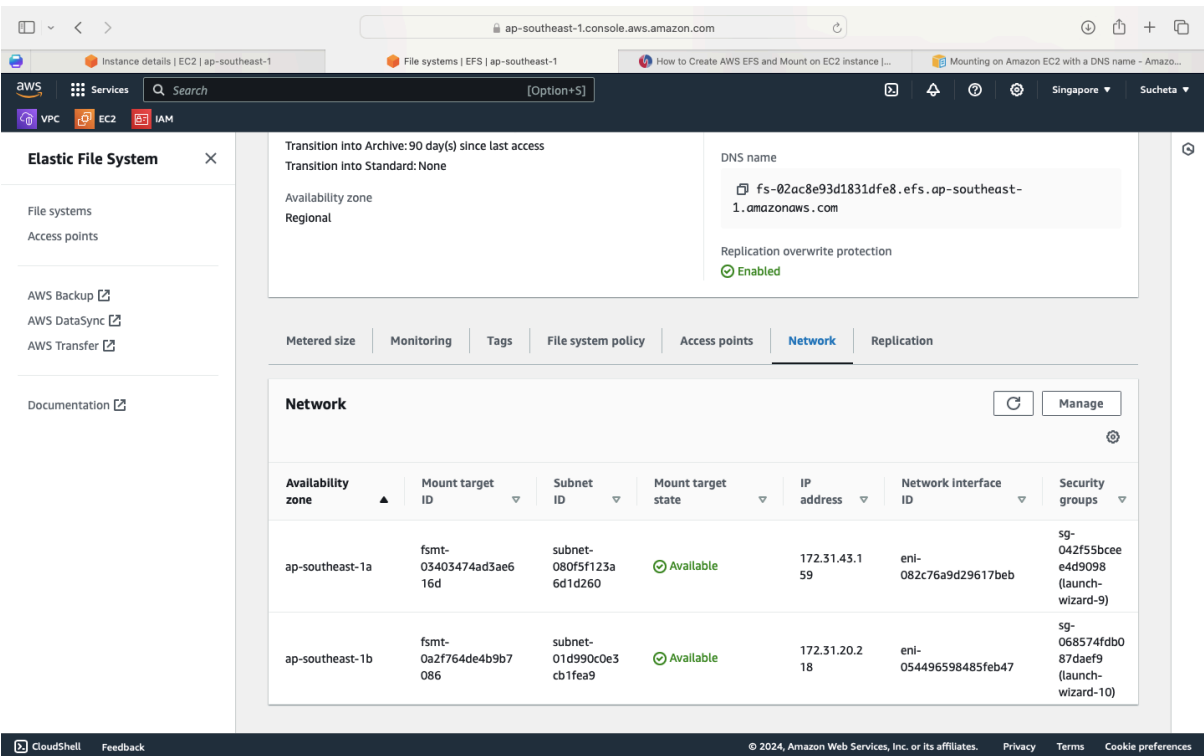
Launch 2 EC2 instance in different availability zone

Create Elastic File System "NFS" file system.

Manage Network section and select Security Group that is associated with our instance.

Same configuration on both the instances.
#sudo -i
#yum install -y amazon-efs-utils

```
[root@ip-172-31-24-51 ~]# yum install -y amazon-efs-utils
Last metadata expiration check: 0:09:05 ago on Wed Feb 28 08:18:52 2024.
Dependencies resolved.
================================================================================
 Package              Architecture Version               Repository      Size
================================================================================
Installing:
 amazon-efs-utils     noarch       1.35.1-1.amzn2023     amazonlinux      57 k
Installing dependencies:
 stunnel              x86_64       5.58-1.amzn2023.0.2   amazonlinux     156 k

Transaction Summary
================================================================================
Install  2 Packages

Total download size: 213 k
Installed size: 566 k
Downloading Packages:
(1/2): amazon-efs-utils-1.35.1-1.amzn2023.noarch.rpm    870 kB/s |  57 kB   00:00
(2/2): stunnel-5.58-1.amzn2023.0.2.x86_64.rpm           2.0 MB/s | 156 kB   00:00
--------------------------------------------------------------------------------
Total                                                   1.6 MB/s | 213 kB   00:00
```

Make directory called "efs" for mounting
#mkdir efs

```
[root@ip-172-31-24-51 ~]# mkdir efs
[root@ip-172-31-24-51 ~]# ls
efs
```

Mount (mount command from EFS attach).
#mount -t efs -o tls fs-0ae8384d7441f4d89:/ efs

```
[root@ip-172-31-24-51 ~]# mount -t efs -o tls fs-02ac8e93d1831dfe8:/ efs
```

Check mounting.
#df -h

```
[root@ip-172-31-24-51 ~]# 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  2.9M  188M   2% /run
[/dev/xvda1        8.0G  1.6G  6.5G  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% /root/efs
```

Create a simple file.
#echo "ABC" > sample.txt

```
[[root@ip-172-31-45-183 efs]# pwd
/root/efs
[[root@ip-172-31-45-183 efs]# echo "ABC" > sample.txt
```

Check that file on other instance, if the same file is present on other instance then our practical is successful.
#ls

```
[[root@ip-172-31-24-51 efs]# ls
sample.txt
[[root@ip-172-31-24-51 efs]#
```