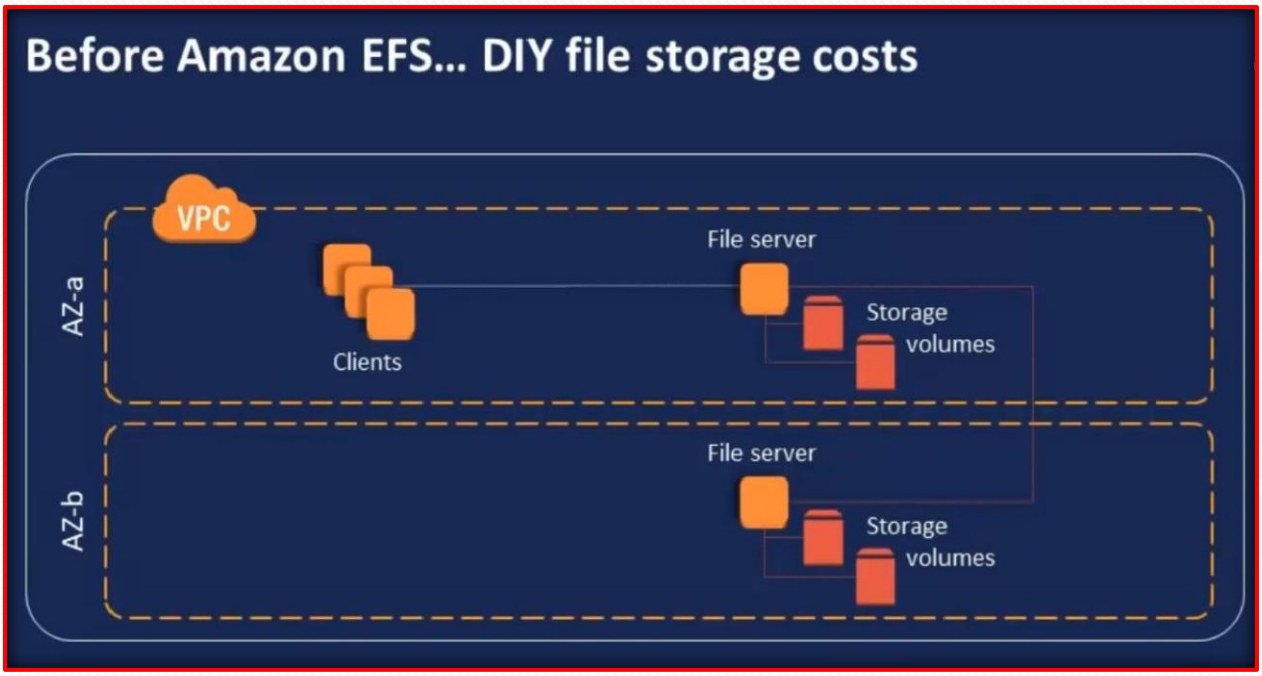
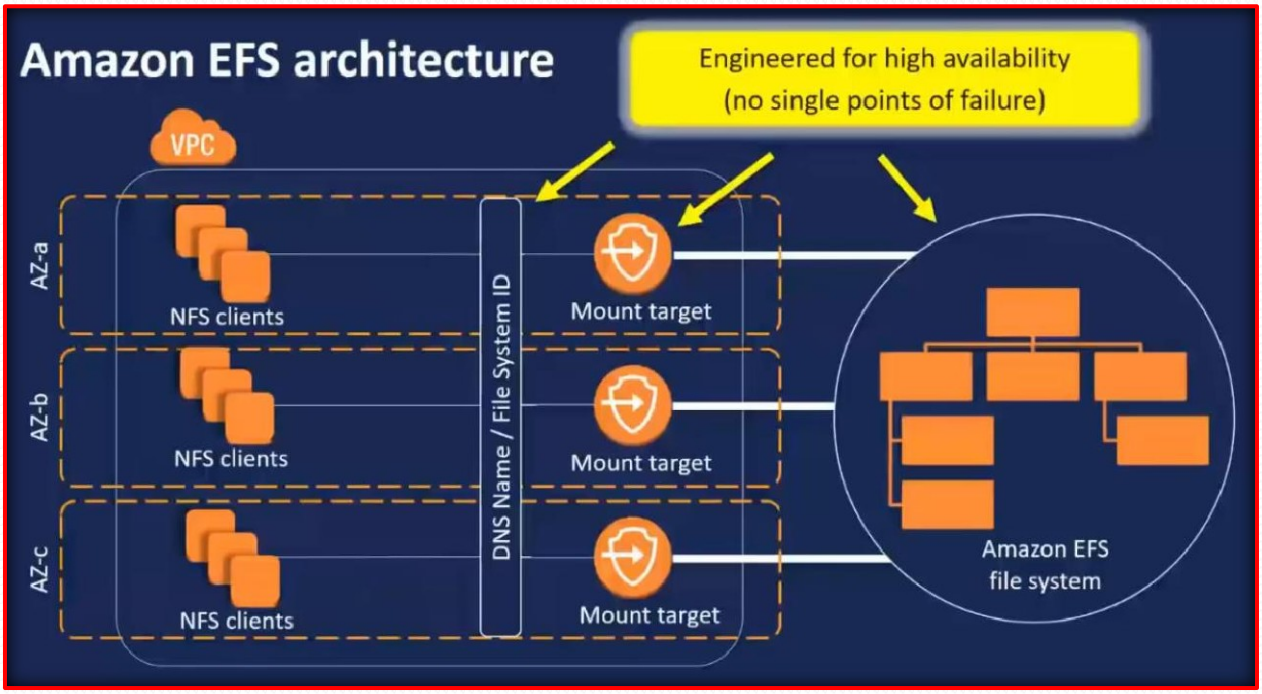
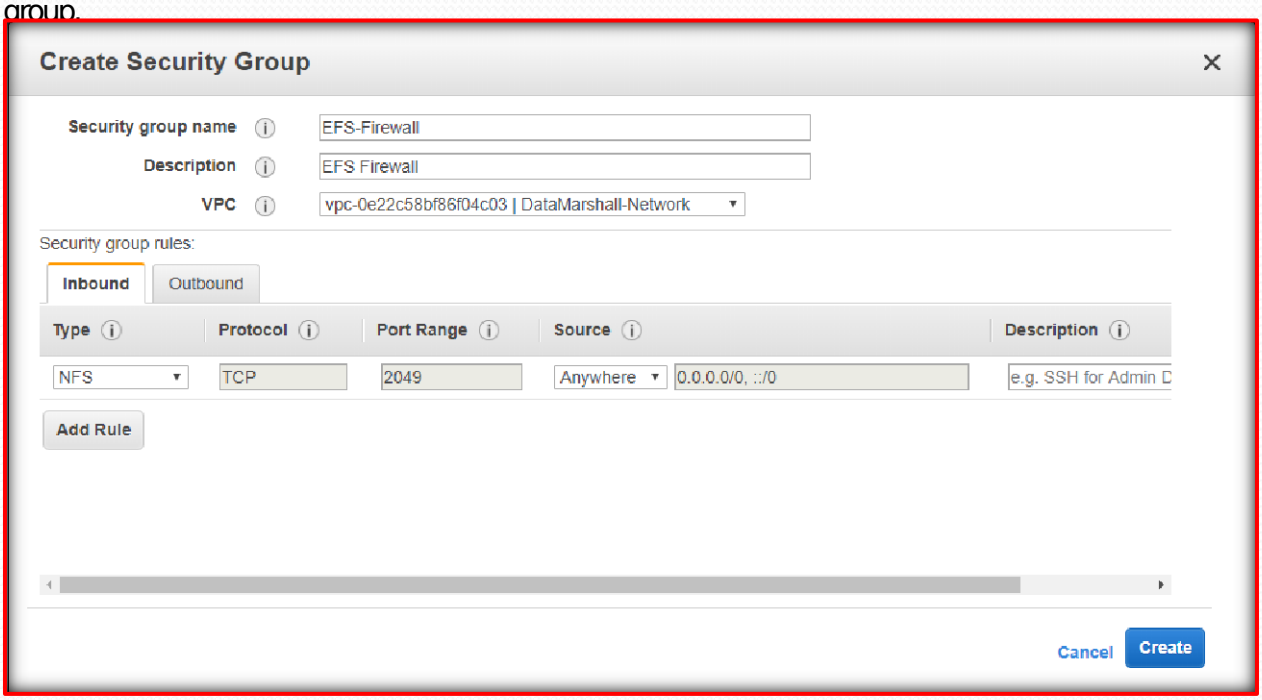
31. ELASTIC FILE SYSTEM

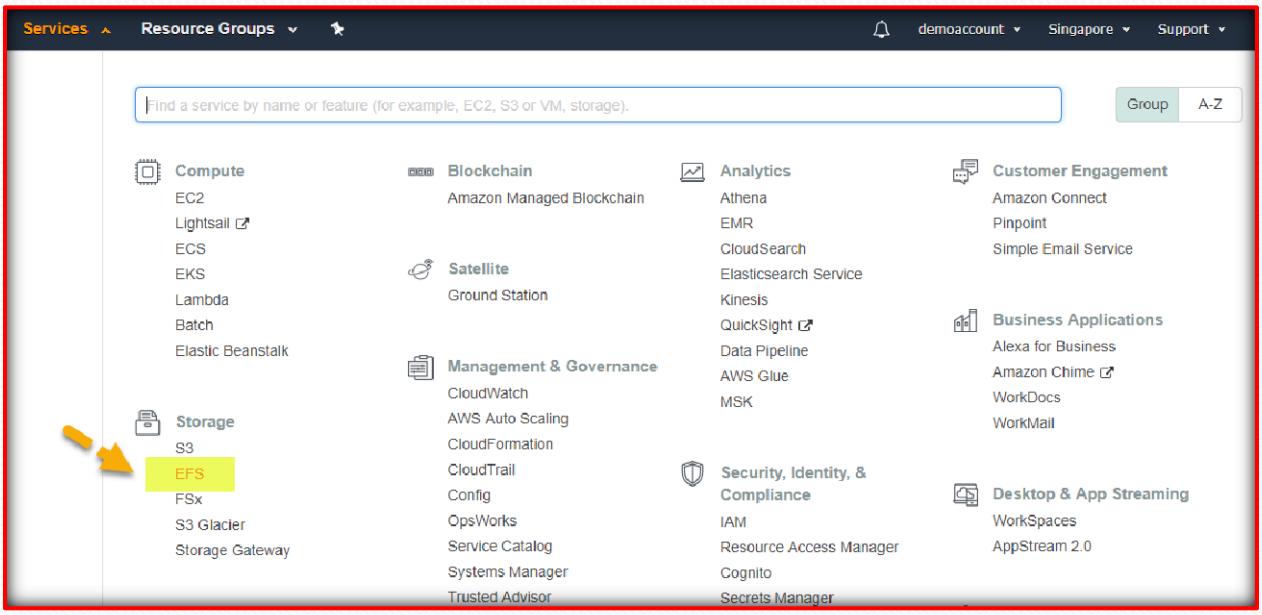




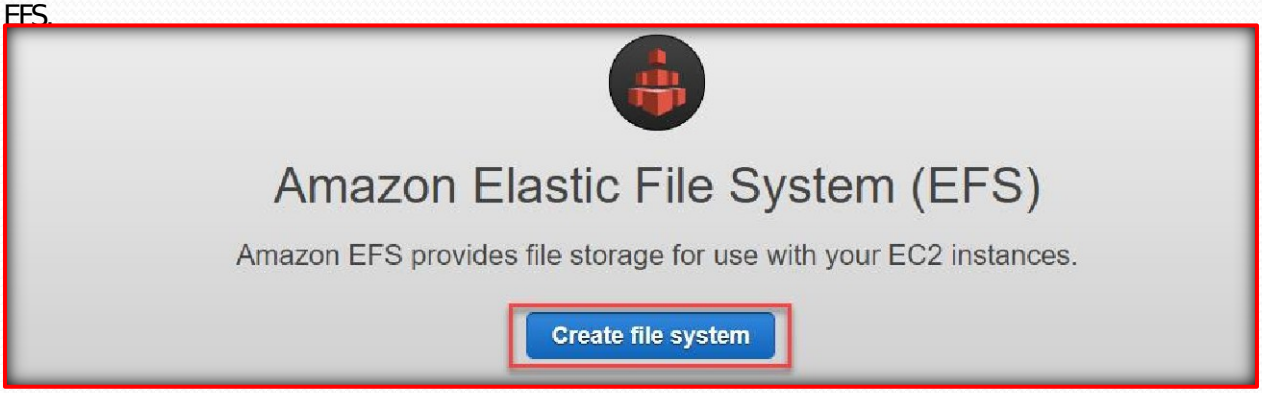
Create a security group which has NFS port open from all locations, named it as EFS security group.



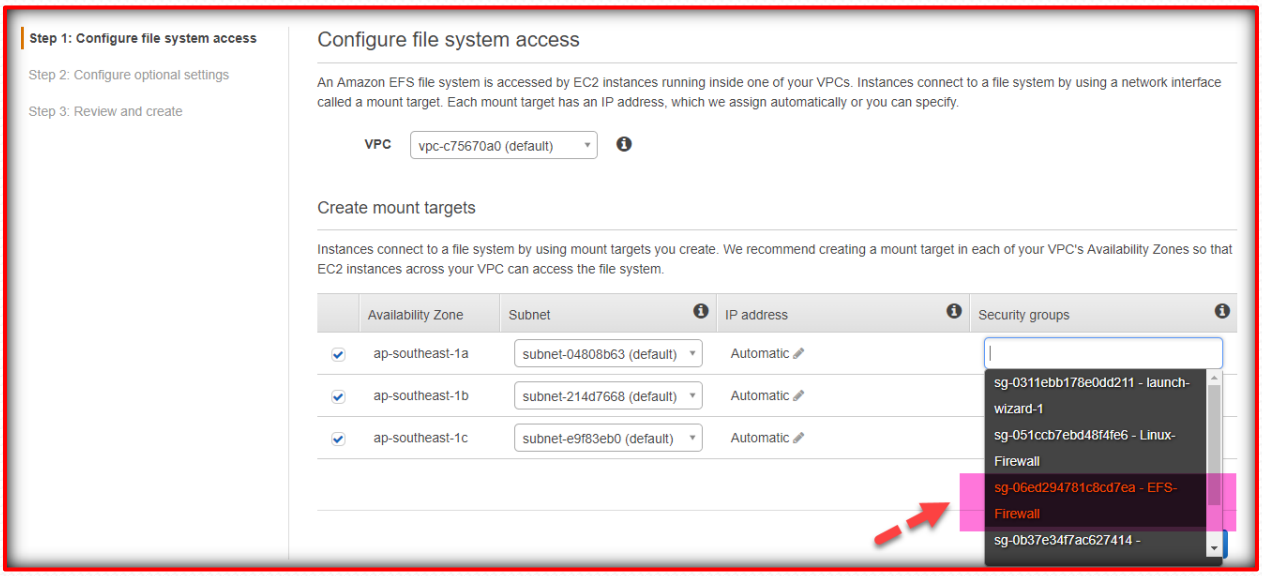
Then go to EFS from Storage services.



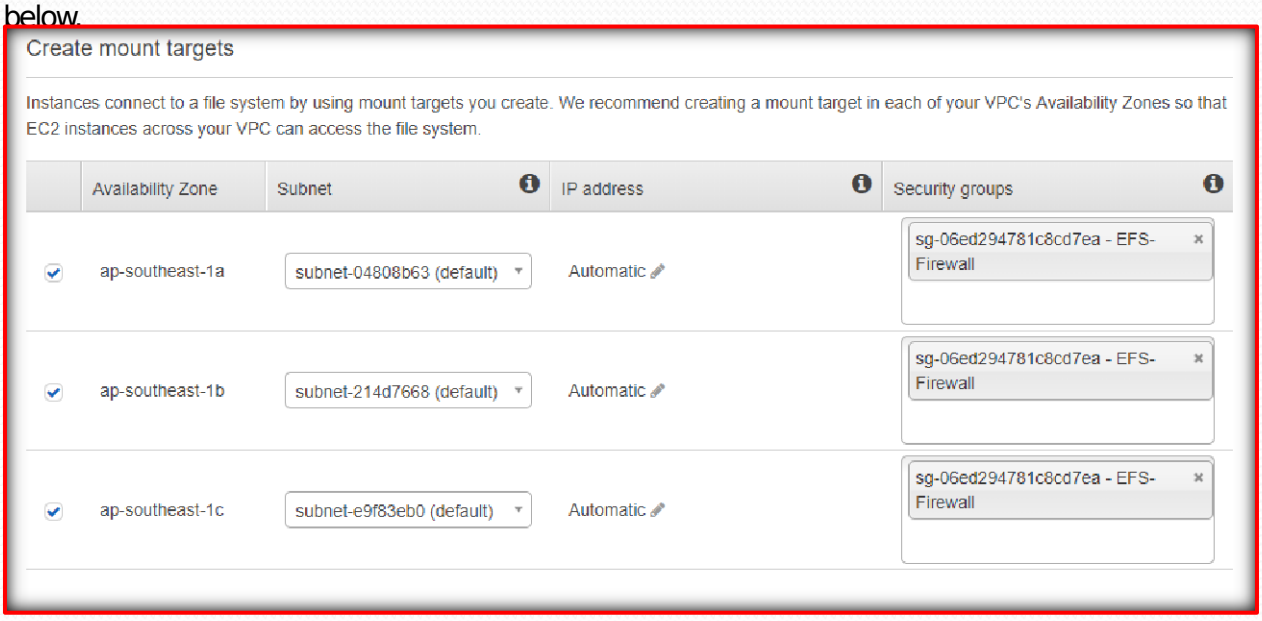
Once you are in EFS, click on create file system to create EFS.



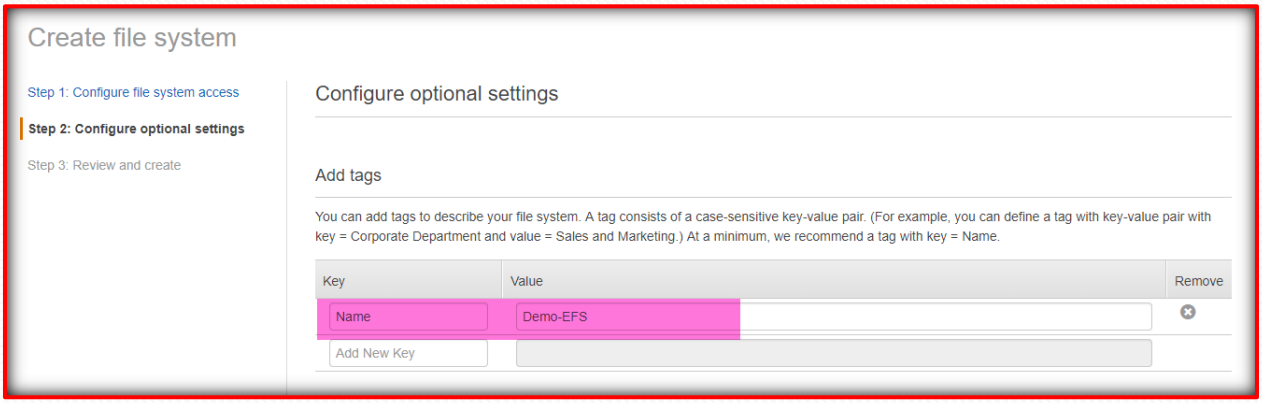
Select the created efs security group for all the mount targets.



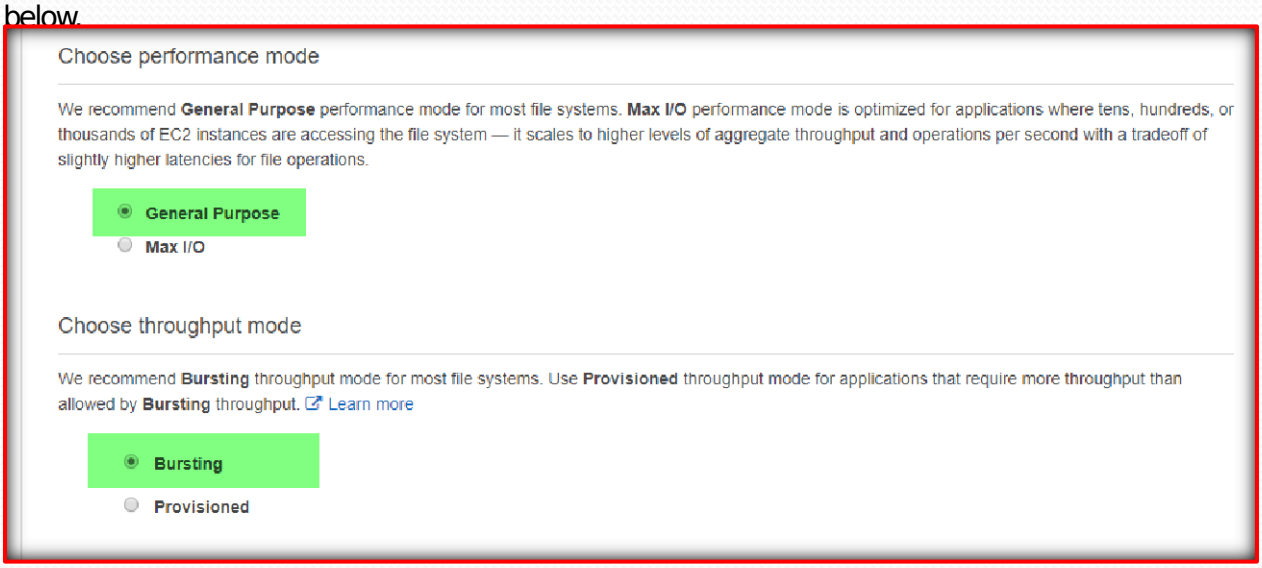
Once changed, will be look like the below.



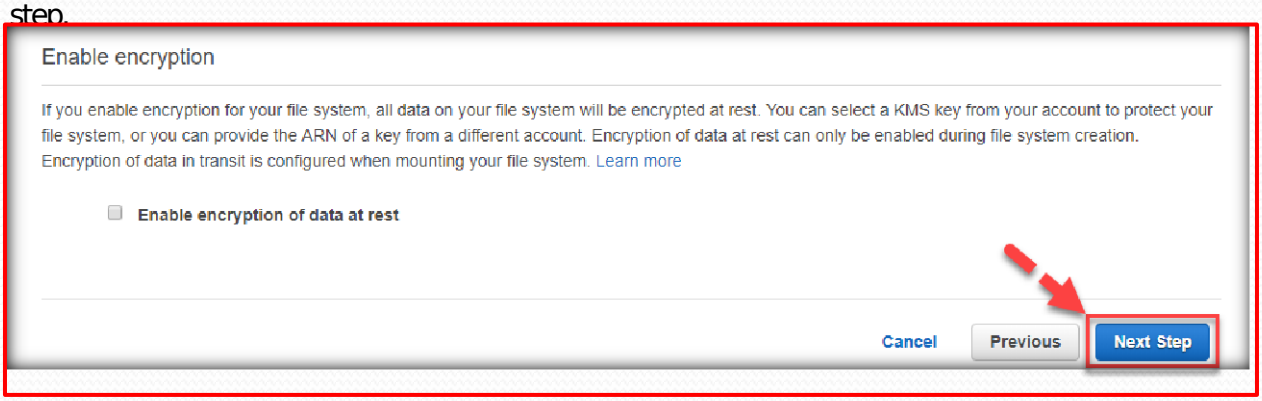
Add a name tag like below.



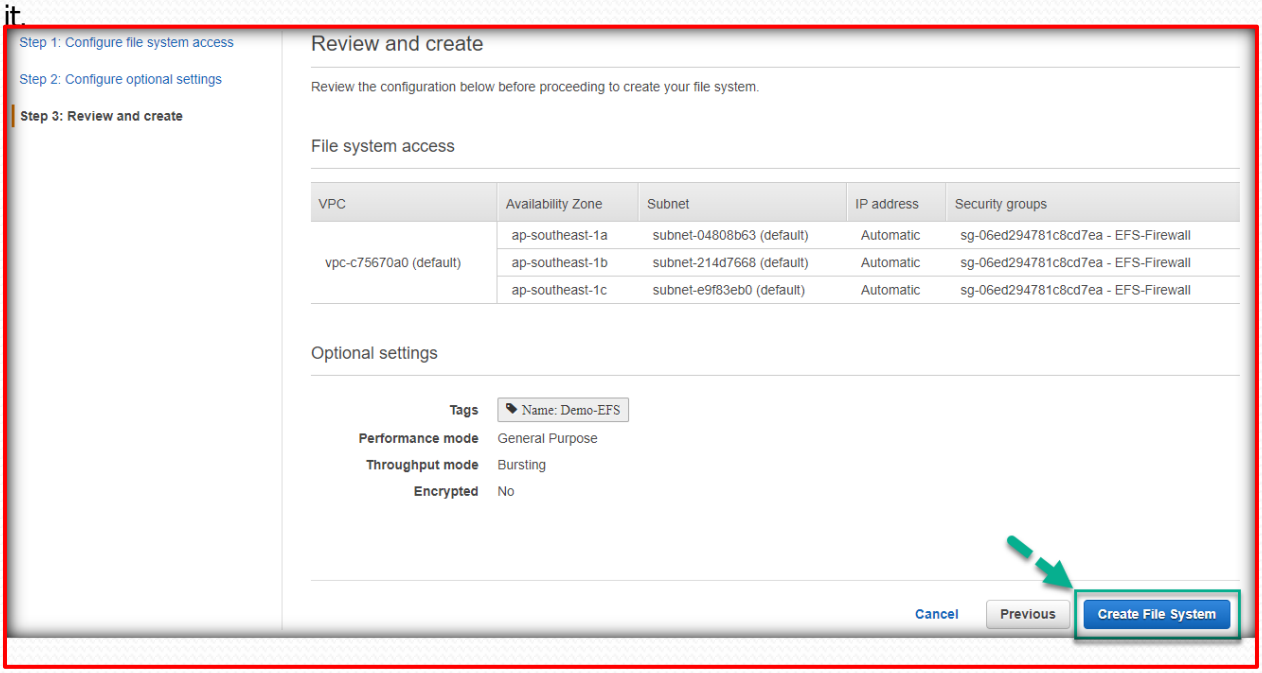
Select the performance options like below.



Specify the encryption and click on Next step.



Finally click on Create file system to create it.



Install nfs-utils package on RHEL based servers, run " `apt-get install nfs-common` " for Debian based systems.

```
[root@ip-172-31-27-89 ~]# yum install -y nfs-utils
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core                                                | 2.4 kB  00:00:00
Package 1:nfs-utils-1.3.0-0.54.amzn2.0.2.x86_64 already installed and latest version
Nothing to do
```

Create a folder in the server to mount the EFS storage.

```
[root@ip-172-31-46-122 ~]#
[root@ip-172-31-46-122 ~]# mkdir /sathish-efs
[root@ip-172-31-46-122 ~]#
```

Then mount EFS storage file system using the below command.

```
mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport fs-df73be9e.efs.ap-southeast-1.amazonaws.com:/ /sathish-efs
```

Run the same command and both the servers.

```
[root@ip-172-31-27-89 ~]# df -h
Filesystem                                      Size  Used Avail Use% Mounted on
devtmpfs                                        476M     0  476M   0% /dev
tmpfs                                           493M     0  493M   0% /dev/shm
tmpfs                                           493M  420K  493M   1% /run
tmpfs                                           493M     0  493M   0% /sys/fs/cgroup
/dev/xvda1                                      8.0G  1.2G  6.9G  15% /
tmpfs                                            99M     0   99M   0% /run/user/1000
fs-df73be9e.efs.ap-southeast-1.amazonaws.com:/  8.0E     0  8.0E   0% /sathish-efs
```