**EFS mounting on EC-2 and communicate two EC-2 instance with each other (file sharing)**

**STEPS :-**

1. **Create security group in ec-2 user tab**

* Go to the security group
* Create new security group
* Type security group name
* Description
* Select the default security group
* Click on create security group

1. **Create EFS in EFS service**

* Go to EFS service
* Create file system
* Give name of EFS
* Select VPC (I have selected by default)
* Select one zone ( for one availability zone ) and (regional for multiple availability zone) I have selected one zone.
* Select availability zone
* Click on customized
* Uncheck enable automatic backup
* General purpose
* Uncheck enable encryption data at a rest
* Next
* Select VPC (I have selected by default)
* Select the security group that you have created
* Next
* Next
* Create
* Enter in EFS
* Click on attach
* Click on mount via ip (because we don’t have DNS)
* Select availability zone

1. **Launch instance**

* Click on EC2
* Launch instance
* Select AMI (im going with by default)
* Choose instance type (im going with by default)
* Choose configuration instance
* Select the VPC and subnet availability zone that you have mentioned In EFS (next add storage)
* Add storage (click on add tags)
* Add tags (click on next: configure security group)
* Click on select and existing group
* Select the security group that you have created
* Review and launch
* Launch.

**EFS**

* You have created the EFS go to the EFS
* Click on attached
* Select mount via ip
* Copy using EFS client link like:-

(mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport 172.31.34.33:/)

**Get the ssh of instance on mobaxterm**

* sudo su
* vim /etc/fstab
* enter the ip of EFS link with colon like:- (172.31.34.33: /mnt nfs 0 0)
* :wq (save the file)
* Past all the link of EFS from mount to ip with colon like :-

(mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport 172.31.34.33:/)

* Df –hT (Now check the mounted file)

**If you want attach same EFS file to another instance also then follow :-**

* Create instance in any availability zone with the same security group that you have created
* sudo su
* vim /etc/fstab
* enter the ip of EFS link with colon like:- (172.31.34.33: /mnt nfs 0 0)
* :wq (save the file)
* Past all the link of EFS from mount to ip with colon like :-

(mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport 172.31.34.33:/)

* Df –hT (Now check the mounted file)
* Now add some files in /mnt location and check that files on another instance on same location /mnt
* You can share your files from one instance to another instance
* Ex :- touch /mnt/file{1..10} this files will show you on another instance