CREATE A EFS MOUNTING ON TWO EC2

STEP 1: Create 2 security grp for ec2 and for efs

In ec2 allow ssh at anywhere

In efs allow nfs port with ec2 sg or anywhere

STEP 2:Create a EFS

If we use default it will get created in region level

If we choose custom

Then we need to select regional as we want Multi-AZ on

set every thing as default

STEP 3:now create a ec2 instance with Amazon Linux 2

STEP 4:Attach a Key Pair

STEP 5:In network setting choose a specific subent

STEP 6:Then in Storage (volumes)

Select advance

In File systems Select EFS

Add shared File

It will automatically select the EFS fiel and Mount path to it

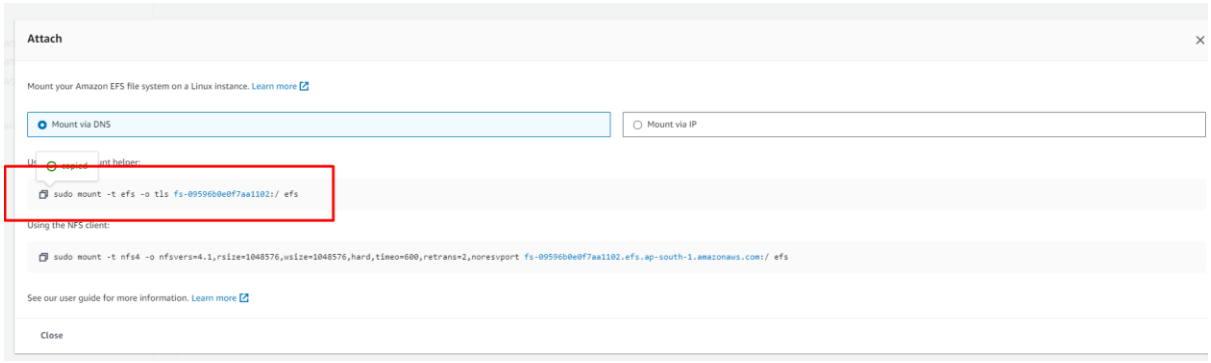
STEP 7: Now launch the EC2 instance

STEP 8:now connect Ec2 Instance

STEP 9:Comamd to connect ec2 Instance Manually

```
Sudo su
Sudo yum update
sudo yum install -y nfs-utils
Mkdir efs    #Create a directory
```

STEP 10: Now go in EFS ,in the created EFS on the right side there ia attach click on it and copy the second option this



This commad will mount the ec2

Cd efs

Ls

Nano hello.txt

Df -h #this command will should that mounting has happen

```
11 package(s) needed for security, out of 14 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-44-163 ~]$ sudo yum install -y nfs-utils
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Package 1:nfs-utils-1.3.0-0.54.amzn2.0.2.x86_64 already installed and latest version
Nothing to do
[ec2-user@ip-172-31-44-163 ~]$ sudo su
[root@ip-172-31-44-163 ec2-user]# sudo yum install -y nfs-utils
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core
Package 1:nfs-utils-1.3.0-0.54.amzn2.0.2.x86_64 already installed and latest version
Nothing to do
[root@ip-172-31-44-163 ec2-user]# mkdir efs
[root@ip-172-31-44-163 ec2-user]# ls
efs
[root@ip-172-31-44-163 ec2-user]# sudo mount -t efs -o tls fs-09596b0e0f7aa1102:/ efs
[root@ip-172-31-44-163 ec2-user]# df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        468M     0  468M   0% /dev
tmpfs           477M     0  477M   0% /dev/shm
tmpfs           477M  520K  476M   1% /run
tmpfs           477M     0  477M   0% /sys/fs/cgroup
/dev/xvda1      8.0G  1.7G  6.4G  21% /
tmpfs            96M     0   96M   0% /run/user/1000
127.0.0.1:/     8.0E     0  8.0E   0% /mnt/efs/fs1
127.0.0.1:/     8.0E     0  8.0E   0% /home/ec2-user/efs
[root@ip-172-31-44-163 ec2-user]# cd efs
[root@ip-172-31-44-163 efs]# ls
[root@ip-172-31-44-163 efs]# touch hello.txt
[root@ip-172-31-44-163 efs]# nano hello.txt
[root@ip-172-31-44-163 efs]#
```

STEP 11: Now create a another ec2 with the same configuration done for the above ec2 and put this in another subnet

STEP 10:

mkdir efs

eg: sudo mount -t efs -o tls fs-09596b0e0f7aa1102:/ efs

ls

cd efs

ls

OUTPUT :

```
11 package(s) needed for security, out of 14 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-7-28 ~]$ sudo su
[root@ip-172-31-7-28 ec2-user]# sudo yum install -y nfs-utils
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core
Package 1:nfs-utils-1.3.0-0.54.amzn2.0.2.x86_64 already installed and latest version
Nothing to do
[root@ip-172-31-7-28 ec2-user]# mkdir efs
[root@ip-172-31-7-28 ec2-user]# sudo mount -t efs -o tls fs-09596b0e0f7aa1102:/ efs
[root@ip-172-31-7-28 ec2-user]# ls
efs
[root@ip-172-31-7-28 ec2-user]# cd efs
[root@ip-172-31-7-28 efs]# ls
hello.txt
[root@ip-172-31-7-28 efs]# nano hello.txt
[root@ip-172-31-7-28 efs]# ^C
[root@ip-172-31-7-28 efs]#
```

Hence we have successfully mount the two ec2 instance

STEP 11: If we want to permanently mount the ecc2 instance

sudo nano /etc/fstab

STEP 12:

Add a line at the end of the file to specify the EFS mount. The line should look similar to the mount command you used. For example:

```
fs-xxxxxxxx.efs.region.amazonaws.com:/ /mnt/efs nfs4
nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2 0 0
```

Make sure to replace `fs-xxxxxxxx` with your actual EFS filesystem ID and adjust the mount options as needed.

And save the file

STEP 13 :Test the mount has successfully

```
sudo mount -a
```

```
df -h                                    #checek the status of the mount
```

STEP 14: Disconnect the connection and try again to check the hello.txt this will get displayed

```
[ec2-user@ip-172-31-44-163 ~]$ sudo su
[root@ip-172-31-44-163 ec2-user]# sudo mount -t efs -o tls fs-09596b0e0f7aa1102:/ efs
[root@ip-172-31-44-163 ec2-user]# ls
efs
[root@ip-172-31-44-163 ec2-user]# cd efs
[root@ip-172-31-44-163 efs]# ls
hello.txt
[root@ip-172-31-44-163 efs]#
```

Reference link:

https://youtu.be/rsU-UnAtgBM?si=kBlf2EfuaUBEKeAE