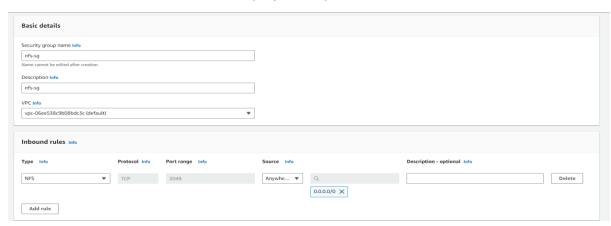
SETUP A NFS CILENT MOUNTING

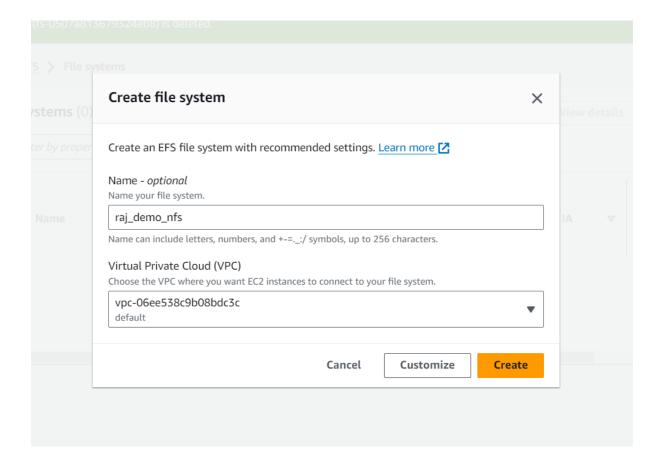
STEP 1: Create a Security Group for EFS with port 2049

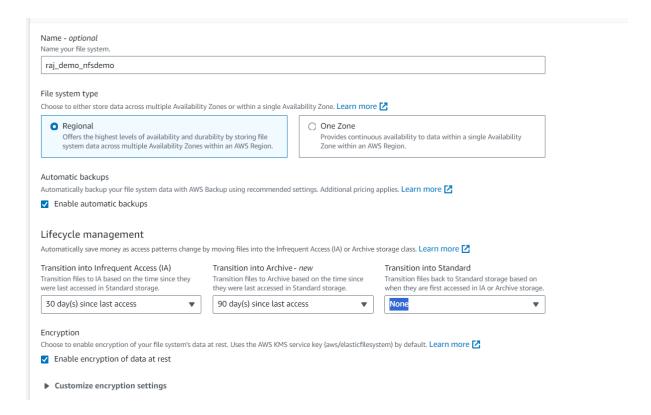
• Inbound rule: NFS 0.0.0.0 (Anywhere)



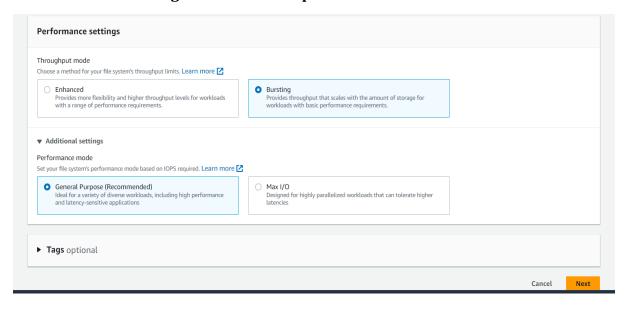
STEP 2: Create a EFS with a specific name in a Region

- We are choosing Region because we want HA for our EFS to mount in any AZ
- If we Select One-Zone we wil only able to mount in that specific AZ only .

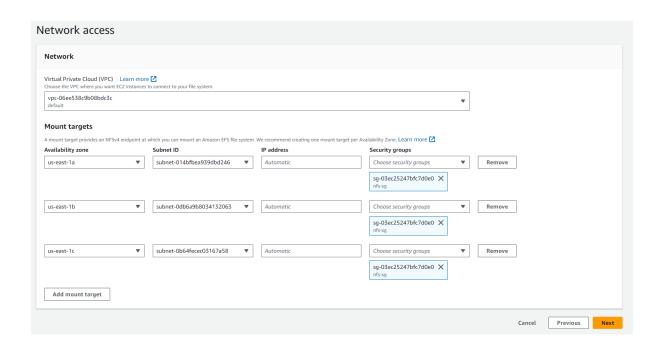




STEP 3: Select Bursting and General Purpose for this demo

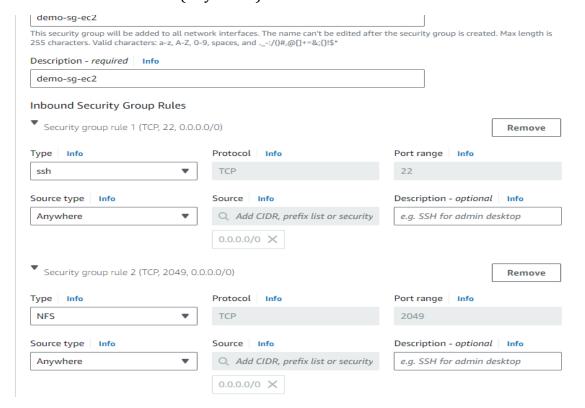


STEP 4: Then we will change the security grp of default to that we have create for NFS /EFS and we will attach the SG for the available AZ.



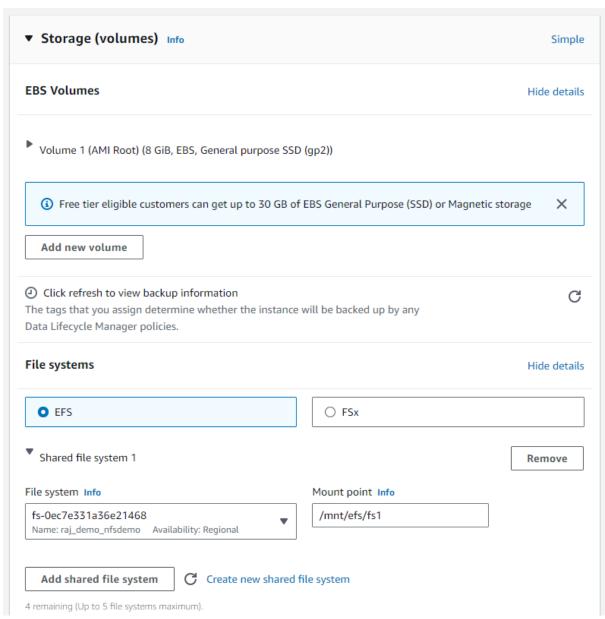
STEP 5: Then we will create a SG for an Ec2intance

- With SSH 0.0.0.0 (Anywhere)
- With NFS 0.0.0.0 (Anywhere)



STEP 6: Then we will create two Ec2 Instance with configuration

- We have given name to our instance as demo-1 demo-2
- We will Use AMI: Linux 2 kernel
- We Will Use SG: That we have created early for ec2
- Then when we come in Storage Volume
- There we need to click on Advance (Right side above)
- There we need to select EFS
- And in the File System we will add the EFS we have created early



And then we will create our two Ec2 instance

STEP 7: Then we will connect instance demo-1 and demo-2

STEP 8: We will connect demo-1 first

Command used:

Clear

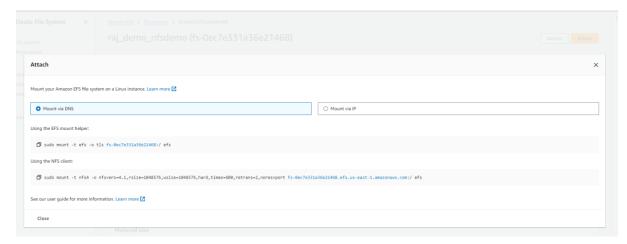
Df-khP #This command will show if the system is mounted or not

Mkdir efs #create a Directory with a name efs

Now go in EFS file we have created and select the filr we have created and in the right hand side above we will see the option Attach click on it

We will get this block open

Now copy the nfs client command and paste it in the server



Eg:

sudo mount -t nfs4 -o

nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport fs-0ec7e331a36e21468.efs.us-east-1.amazonaws.com:/ efs

means in place of efs write the name of the directory that you have created

Command use:

Df-khP

Mkdir efs

sudo mount -t nfs4 -o

nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvpor t fs-0ec7e331a36e21468.efs.us-east-1.amazonaws.com:/ efs

cd efs

echo "hello world" > demo.txt

ls

STEP 9: Now go to demo-2 instance and connect

Command use:

Df-khP

Mkdir efs

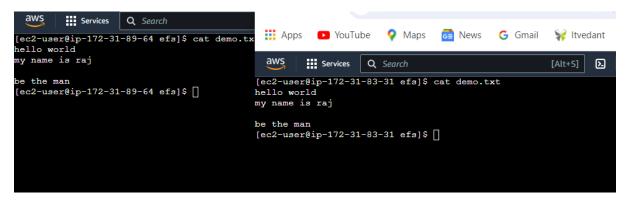
sudo mount -t nfs4 -o

nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvpor t fs-0ec7e331a36e21468.efs.us-east-1.amazonaws.com:/ efs

cd efs

ls

Hence you will get the same txt file that we have created in demo-1



STEP 10: If we have to unmount the ec2 instance

Command use:

Umount efs_dns_name

#this efs_dns_name represent id of the EFS if we have to unmount his we need to use this command

STEP 11: If we want to permanent mount we can use this method

Command used:

Cd /etc/ nano fstab

"add this command in the file and change the necessary thing and configure"

file_system_id.efs.aws-region.amazonaws.com:/ mount_point nfs4 nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport,_net dev 0 0 $^{\circ}$

"save and exit the file"

Replace file_system_id.efs.aws-region.amazonaws.com : with the DNS name of the EFS file which we have created



Replace mount_point: with the path of the file

Eg: /home/ec2-user/efs

STEP 12: And now reboot the Server

Stop the Server Start the Server

Now open the server and try to check the file is existing or not Hence we have successfully permanent mount the file in the fs file

Reference Link:

https://youtu.be/mdFw0wL9BrQ?si=B8GY35yUhUMca1wb

https://youtu.be/Aux37Nwe5nc?si=HXH 7ootVep8l7pl

For perMounting:

https://youtu.be/El6wlGXghMw?si=SnMpXp55L84-fh4s