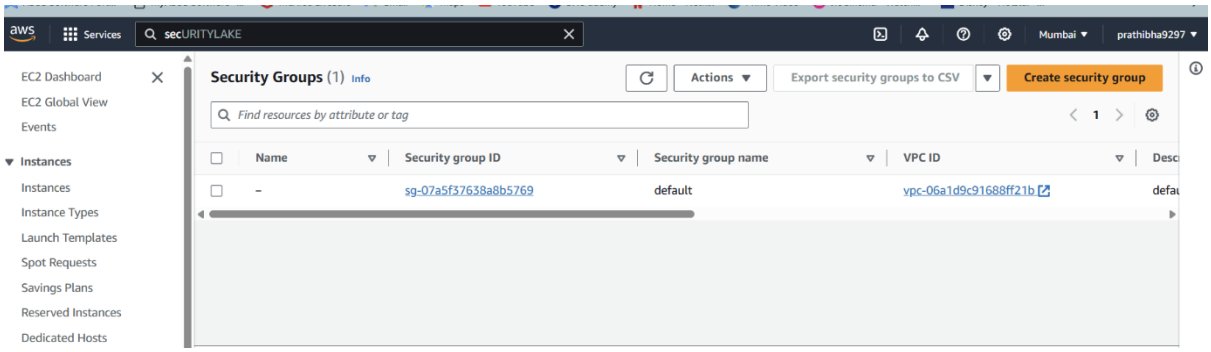
ELASTIC FILE SYSTEM(EFS)

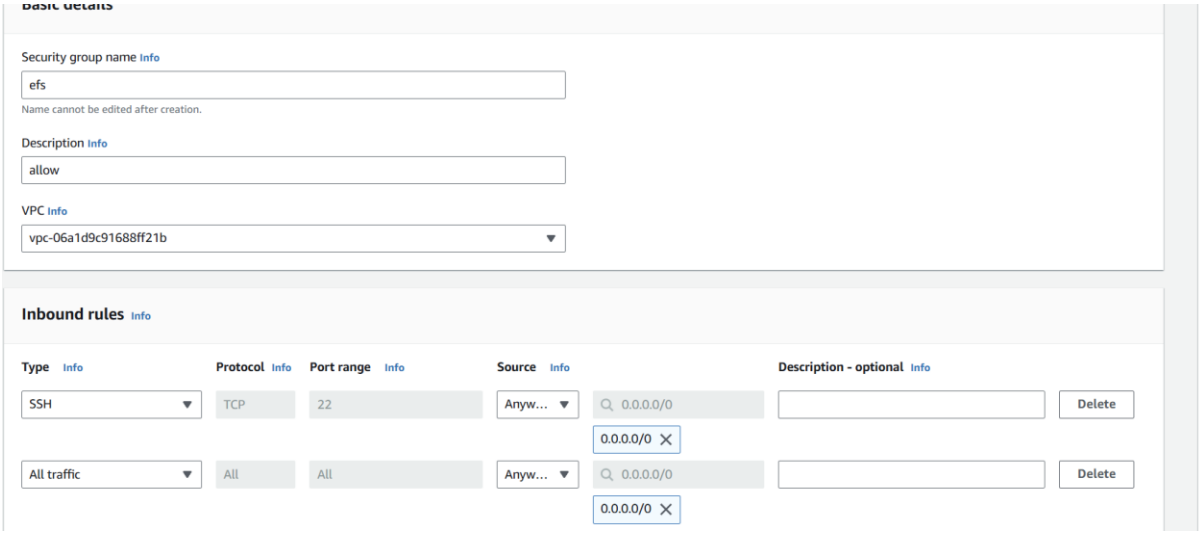
Amazon Elastic File System (EFS) is designed to provide serverless, fully elastic file storage that lets you share file data without provisioning or managing storage capacity and performance.

Step1:

Security group: Go to security group in AWS console and click on create security group.



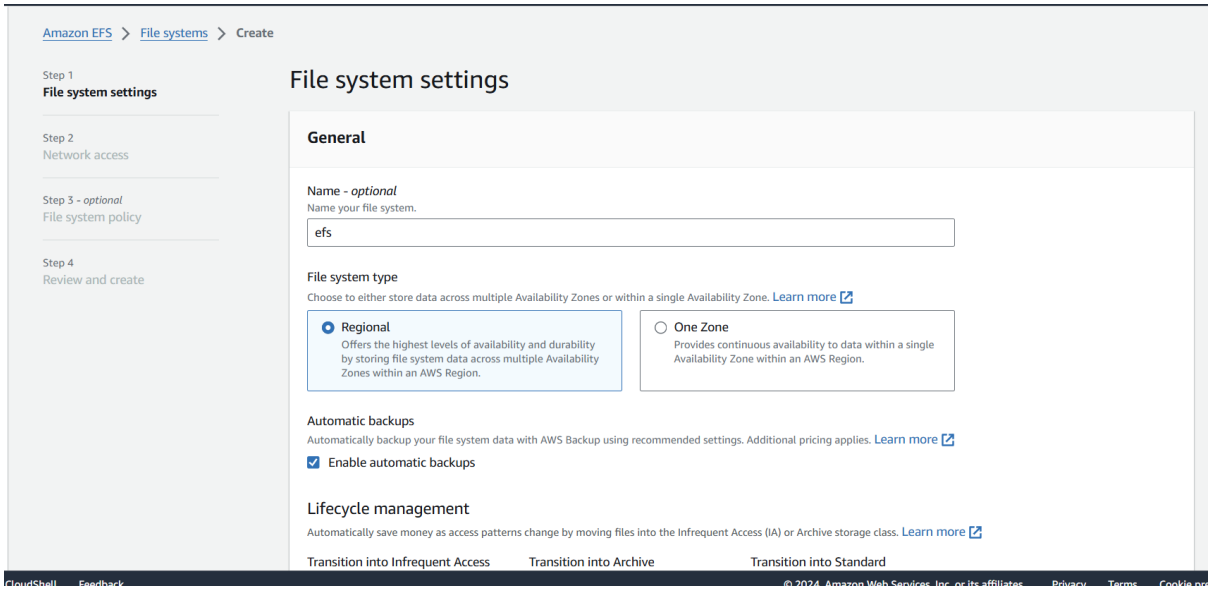
- Give name tag as efs for security group and enter allow in Description.
- Add inbound rules as shown in below slide.

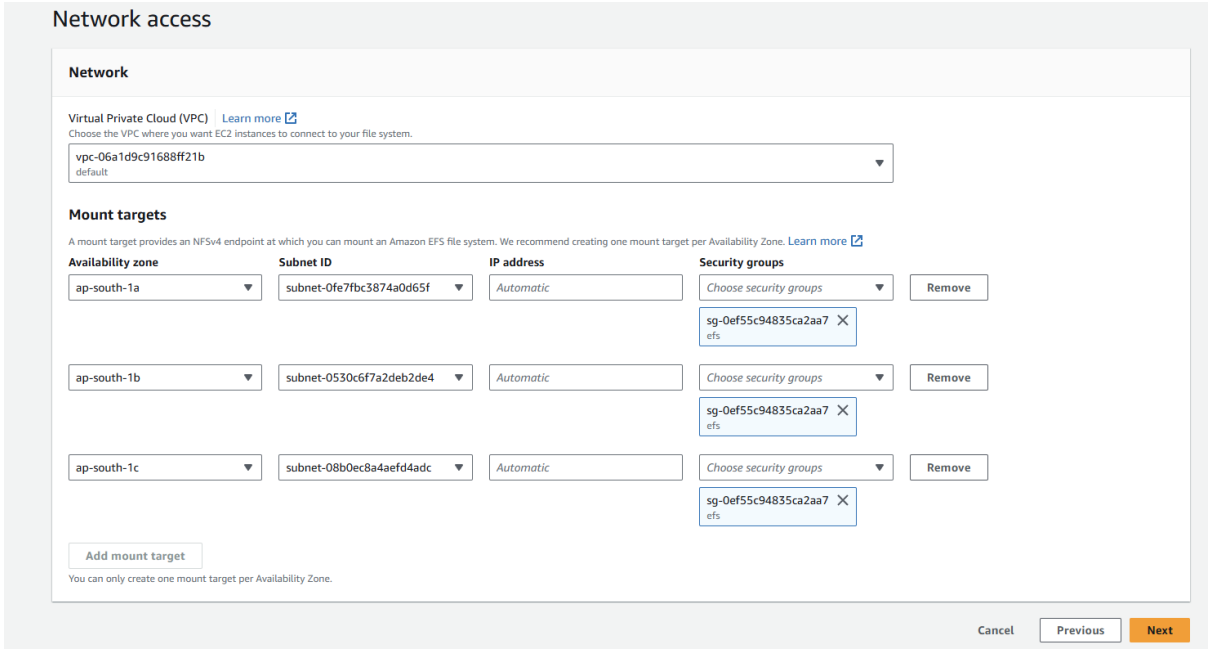


Step 2:

EFS(Elastic file system):

- Go to EFS and click on create file system.
- Give name tag as efs.
- Go to network settings and select created security group for all availability zones
- Remaining fields in efs leave as default and click on create efs as shown in below slides.





Step 3:

Instance1:

- Go to EC2 dashboard and click on launch instance.
- Give name tag as efs-instance1 and select AWS Linux.
- Select key pair.
- Go to network settings and select subnet as ap-south-1a
- Enable the Auto-assign public IP
- Click on select existing security group and select the security group.
- Click edit in file system and click on add shared file system
- Click on launch instance.

Name and tags Info

Name

efs-instance1

Add additional tags

Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Search our full catalog including 1000s of application and OS images

Quick Start

Amazon Linux | macOS | Ubuntu | Windows | Red Hat | SUSE Li

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

VPC - *required* Info

vpc-06a1d9c91688ff21b (default)
172.31.0.0/16

Subnet Info

subnet-0fe7fbc3874a0d65f
VPC: vpc-06a1d9c91688ff21b Owner: 891377141179
Availability Zone: ap-south-1a Zone type: Availability Zone
IP addresses available: 4090 CIDR: 172.31.32.0/20)

Create new subnet

Auto-assign public IP Info

Enable

Additional charges apply when outside of free tier allowance

Firewall (security groups) Info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group | Select existing security group

Common security groups Info

Select security groups

efs sg-0ef55c94835ca2aa7
VPC: vpc-06a1d9c91688ff21b

Compare security group rules

Security groups that you add or remove here will be added to or removed from all your network interfaces.

Advanced network configuration

Summary

Number of instances Info

1

Software Image (AMI)
Amazon Linux 2023 AMI 2023.5.2...read more
ami-0a4408457f9a03be3

Virtual server type (instance type)
t2.micro

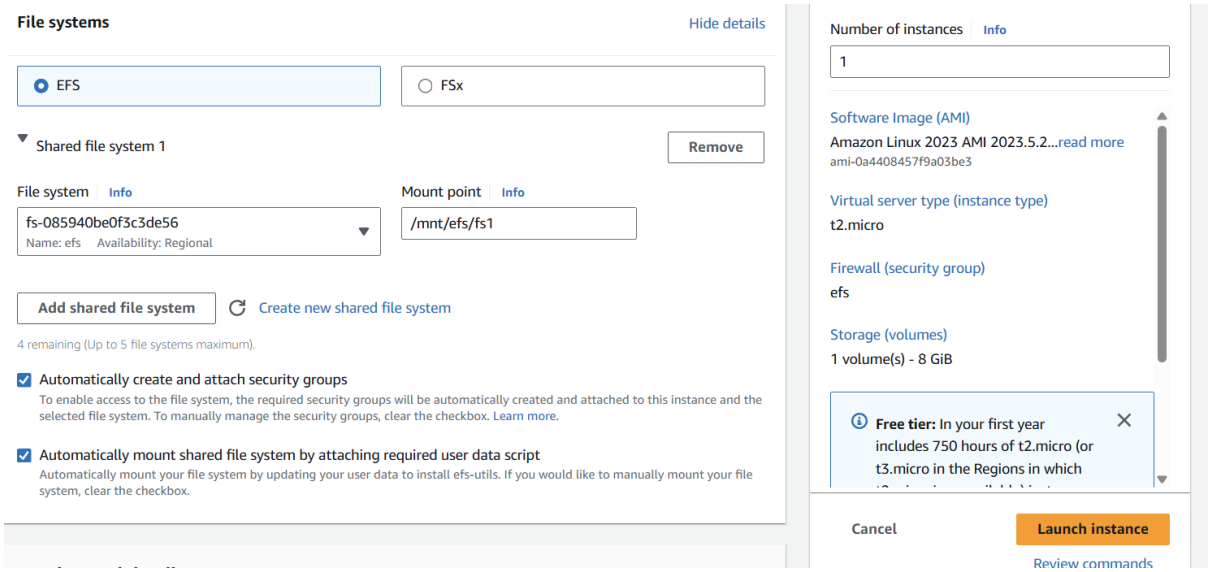
Firewall (security group)
efs

Storage (volumes)
1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which

Cancel | Launch instance

Review commands



Instance2:

- Go to EC2 dashboard and click on launch instance.
- Give name tag as efs-instance2 and select AWS Linux.
- Select key pair.
- Go to network settings and select subnet as ap-south-1b
- Enable the Auto-assign public IP
- Click on select existing security group and select the security group.
- Click edit in file system and click on add shared file system
- Click on launch instance.

Name and tags Info

Name

efs-instance2

Add additional tags

Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

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Including AMIs from AWS, Marketplace and the Community

Network settings Info

VPC - *required* Info

vpc-06a1d9c91688ff21b (default)
172.31.0.0/16

Subnet Info

subnet-0530c6f7a2deb2de4
VPC: vpc-06a1d9c91688ff21b Owner: 891377141179
Availability Zone: ap-south-1b Zone type: Availability Zone
IP addresses available: 4090 CIDR: 172.31.0.0/20)

Create new subnet

Auto-assign public IP Info

Enable

Additional charges apply when outside of free tier allowance

Firewall (security groups) Info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group | Select existing security group

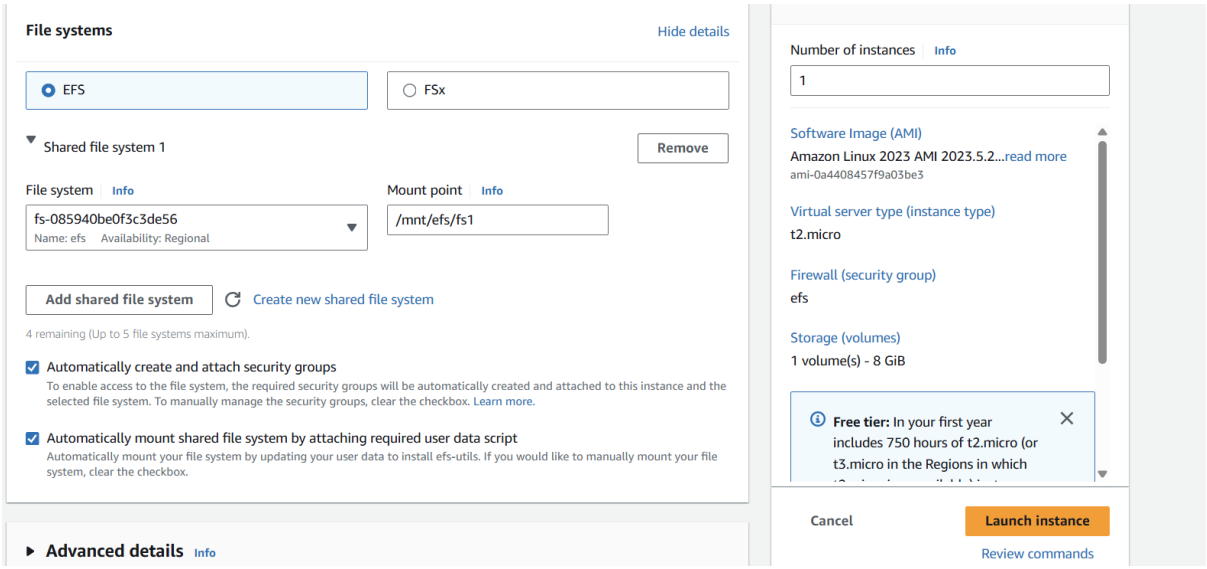
Common security groups Info

Select security groups

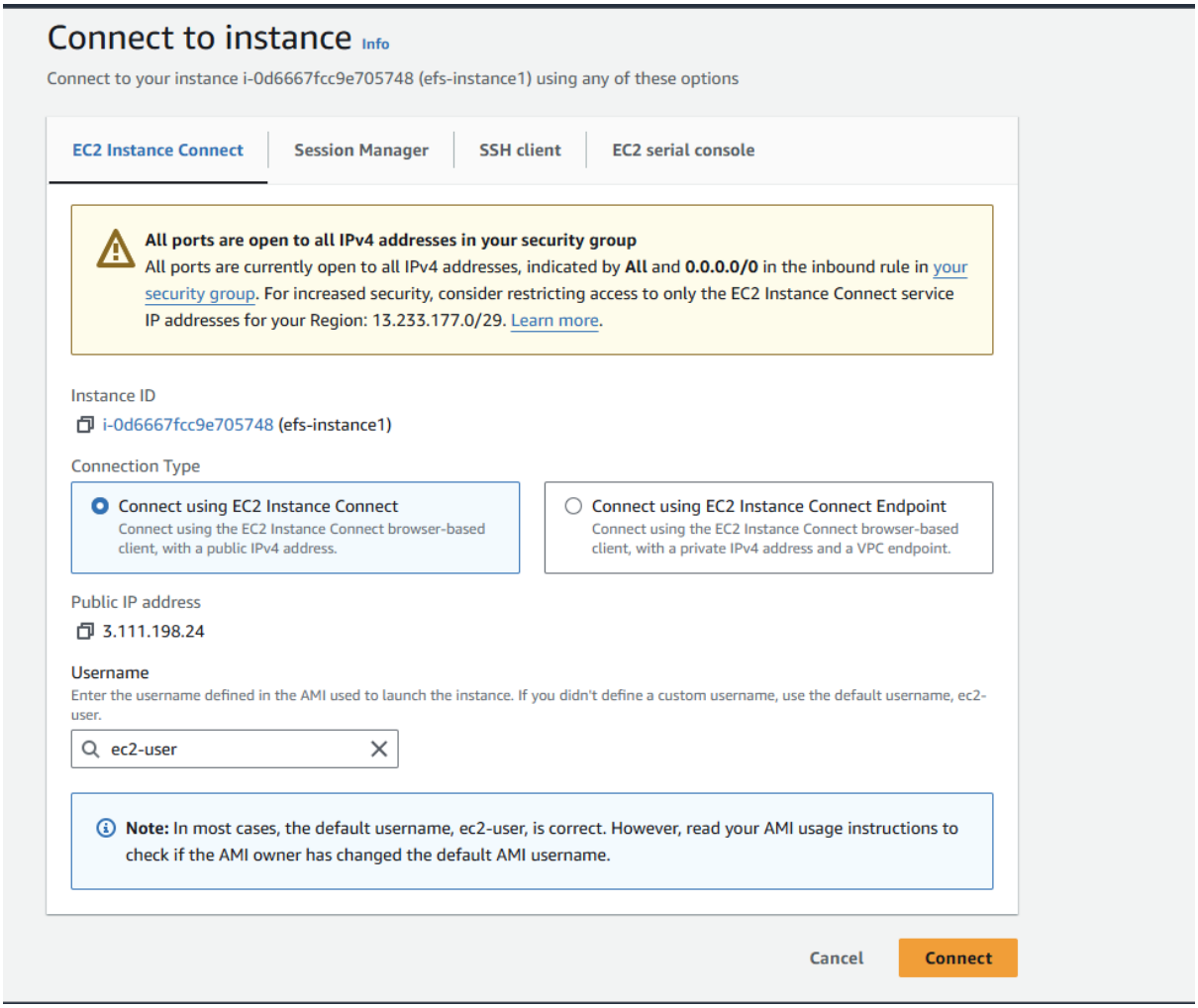
efs sg-0ef55c94835ca2aa7
VPC: vpc-06a1d9c91688ff21b

Compare security group rules

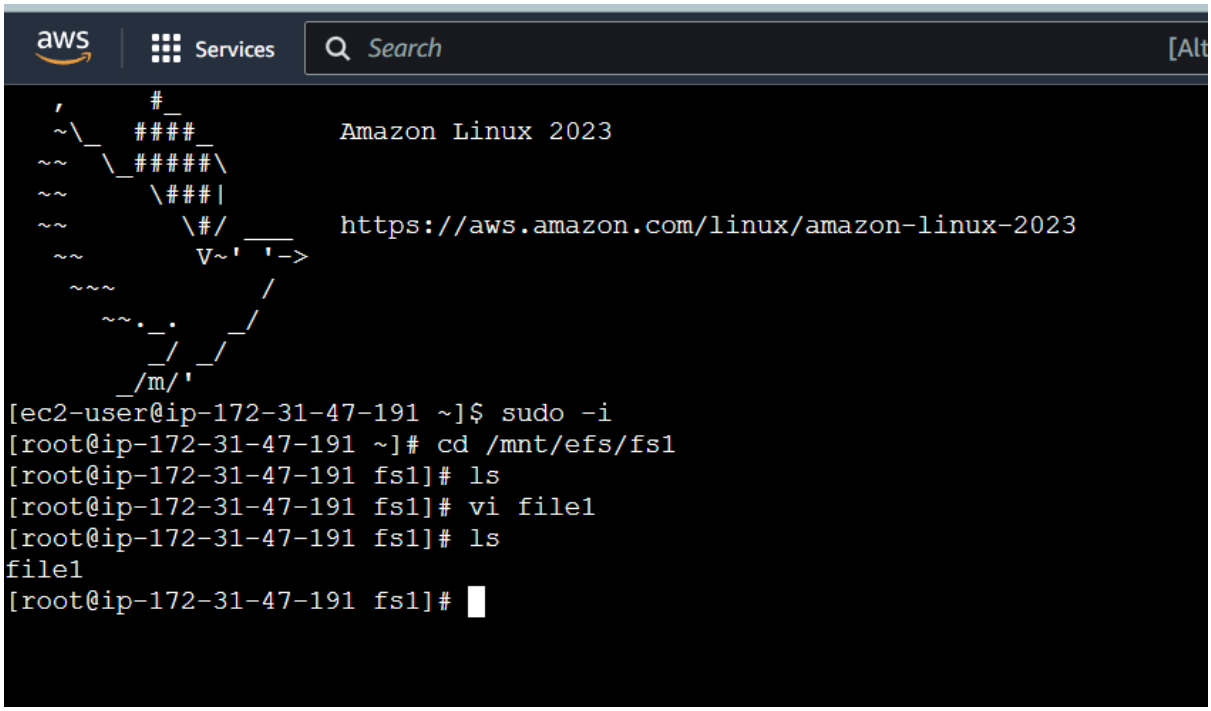
Security groups that you add or remove here will be added to or removed from all your network interfaces.



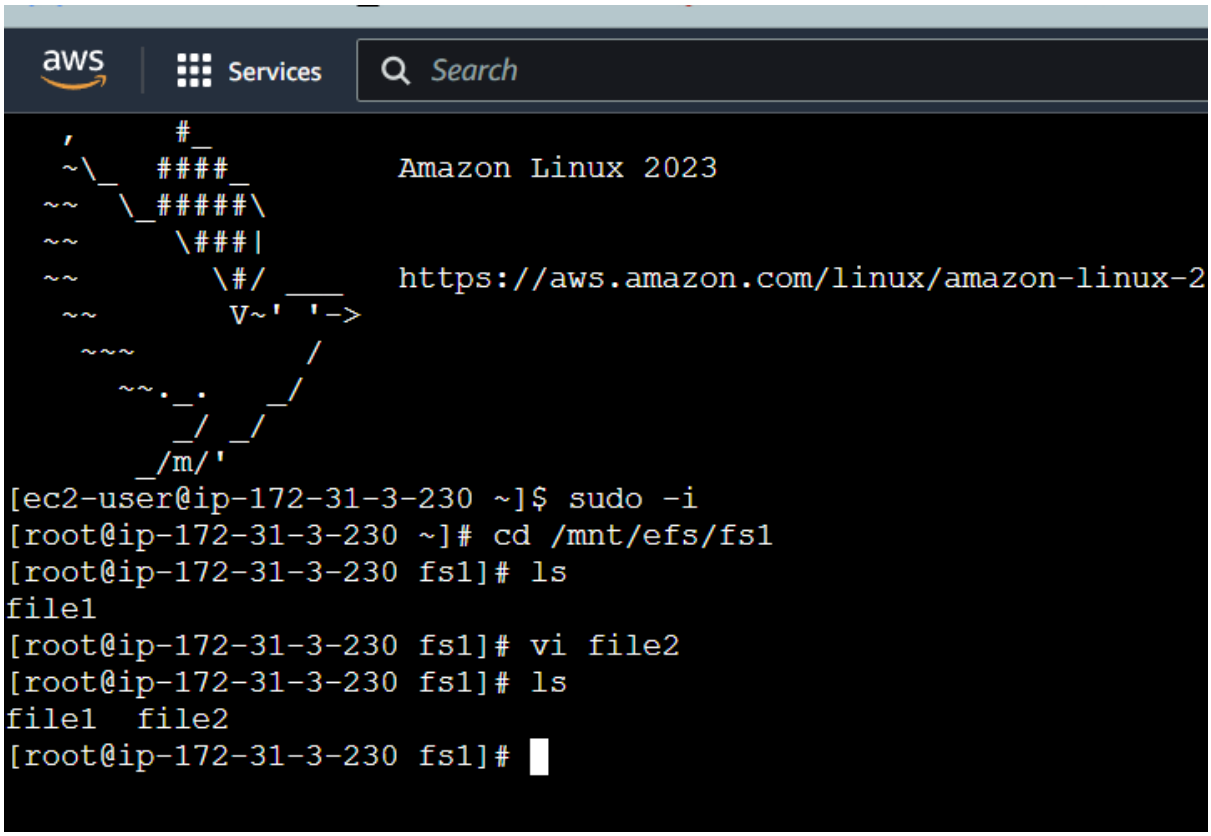
- Connect to the efs-instance1 and efs-instance2



- Once connected to the server change to root user using sudo -i
- Change directory using cd /mnt/efs/fs1
- Create file1 as shown in below slide.



- connect to the efs-instance2 and change to root user
- and change directory using cd /mnt/efs/fs1
- list files in server using ls command then we can see already file1 is existed which we created in efs-instance1
- now create file2 as shown in below silde.



- Now check the server1 file2 will share to server1 and the output shown in below slide


Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023
[ec2-user@ip-172-31-47-191 ~]$ sudo -i
[root@ip-172-31-47-191 ~]# cd /mnt/efs/fs1
[root@ip-172-31-47-191 fs1]# ls
[root@ip-172-31-47-191 fs1]# vi file1
[root@ip-172-31-47-191 fs1]# ls
file1
[root@ip-172-31-47-191 fs1]# ls
file1 file2
[root@ip-172-31-47-191 fs1]#