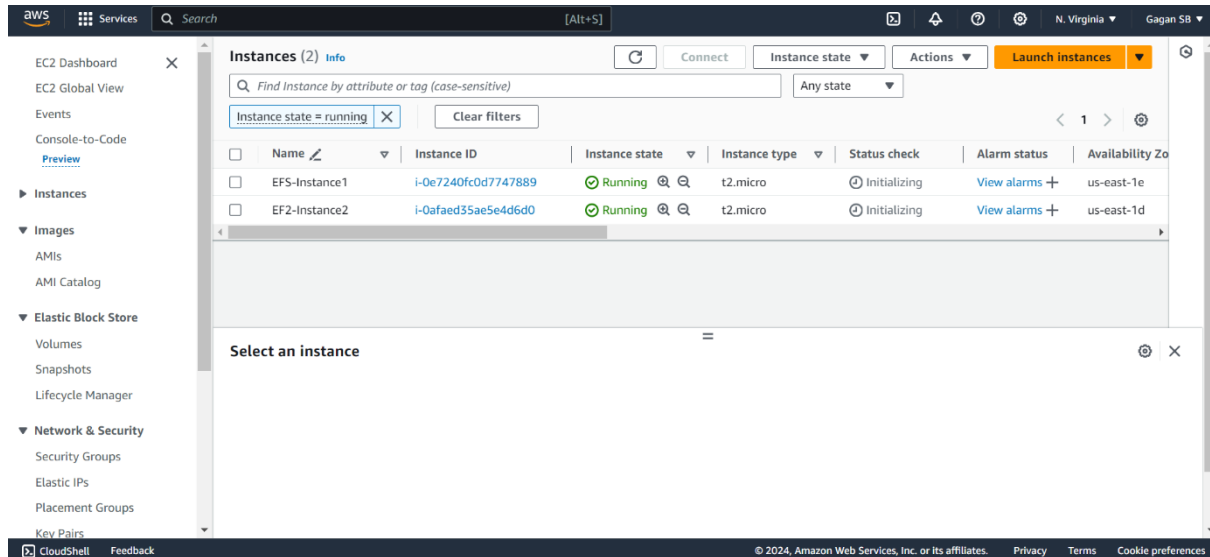
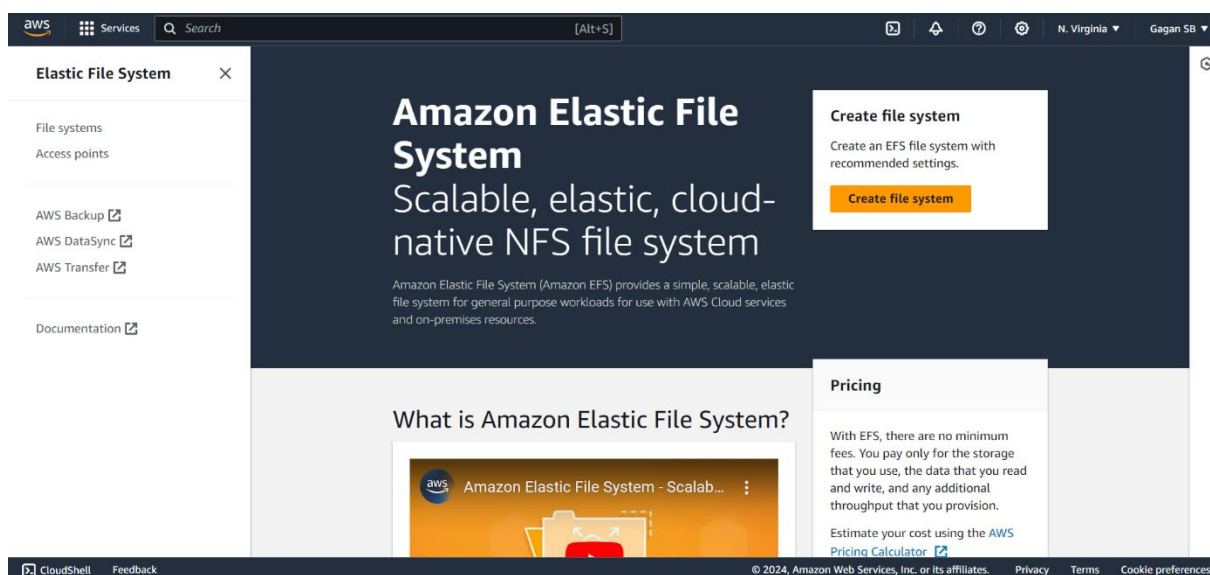


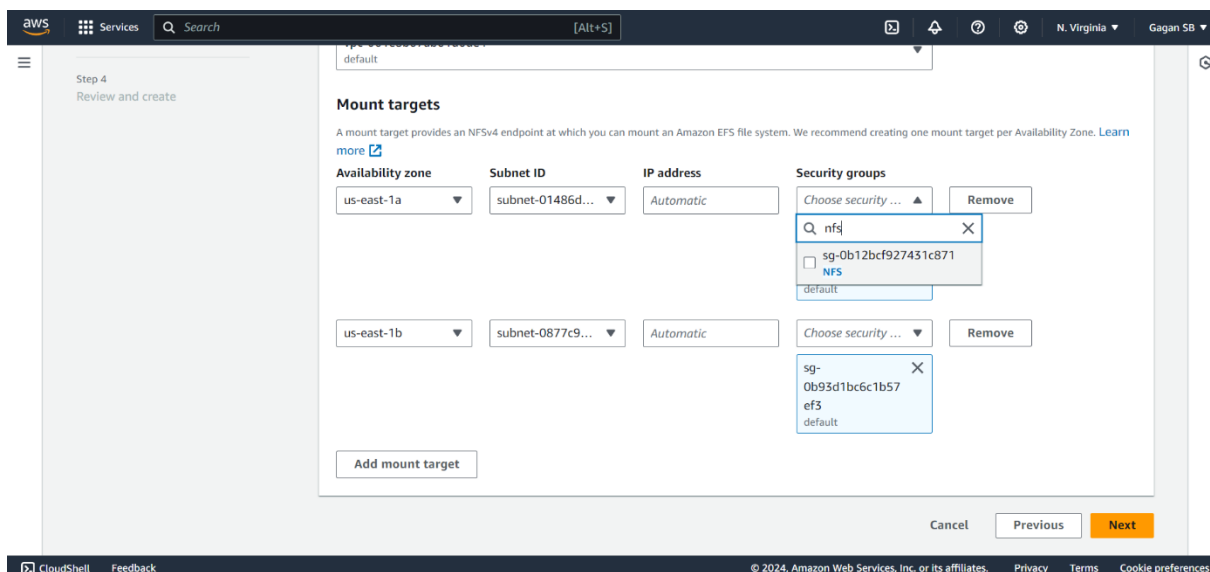
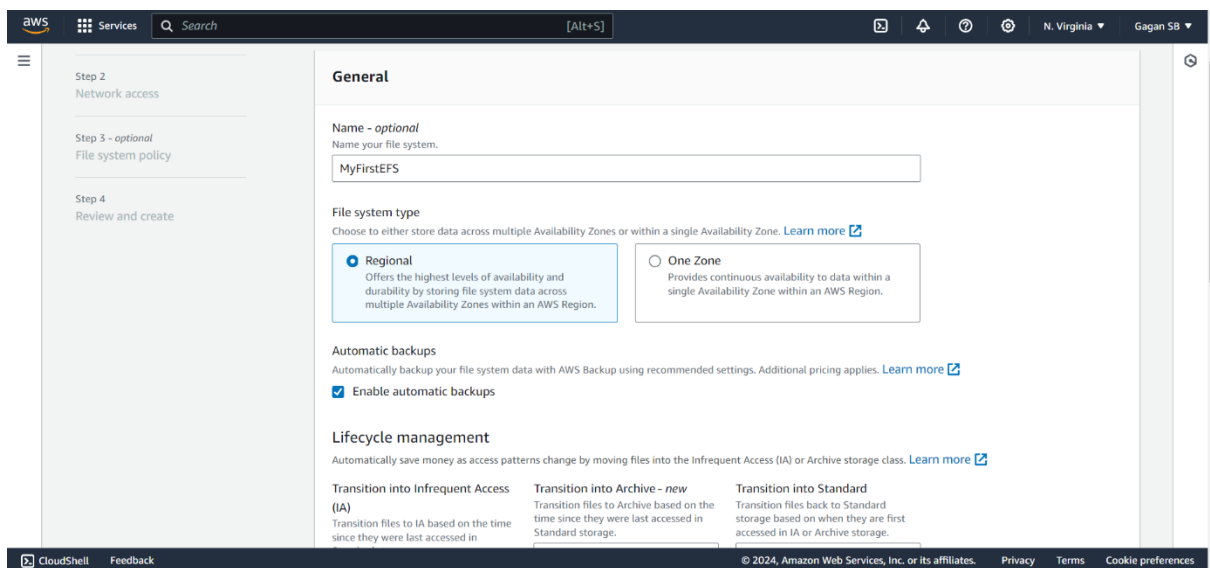
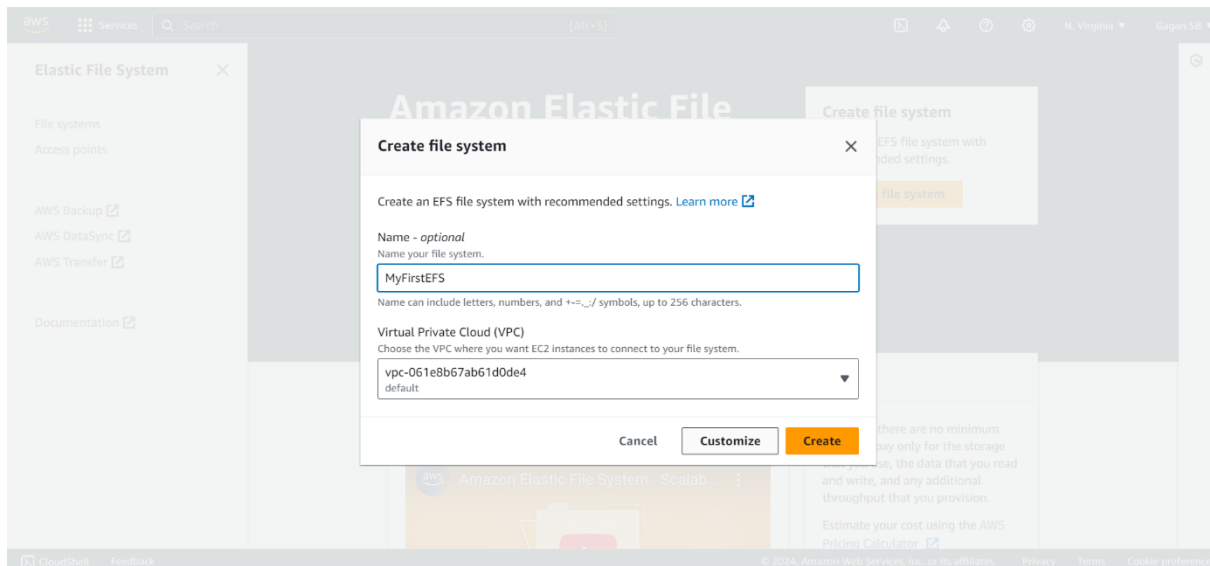
AWS project to share and access the same storage resources for 2 or more EC2 instances using Amazon Elastic File System (EFS).

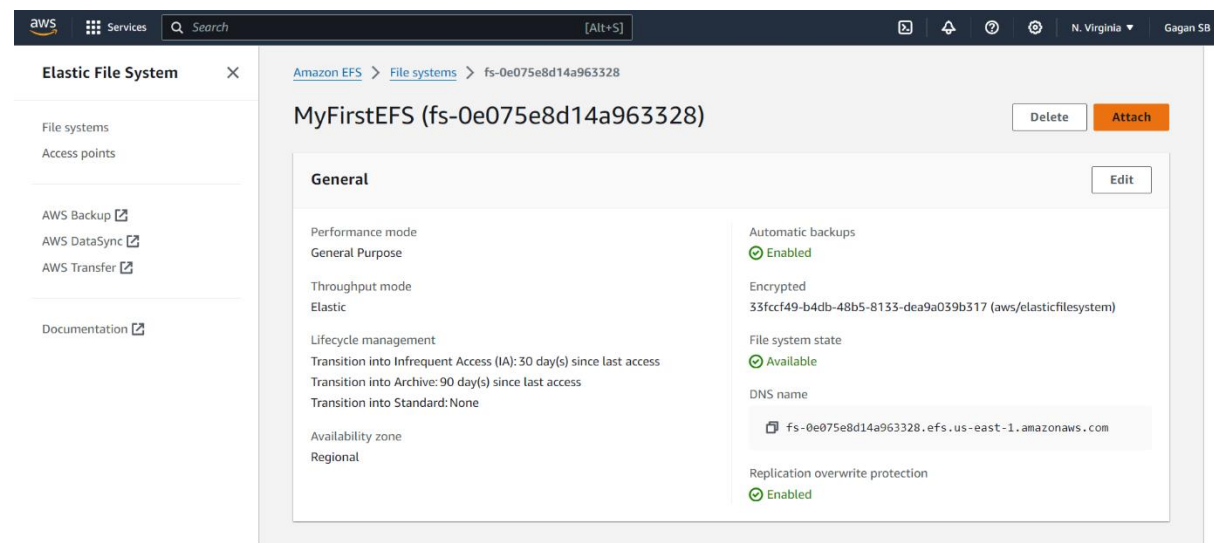
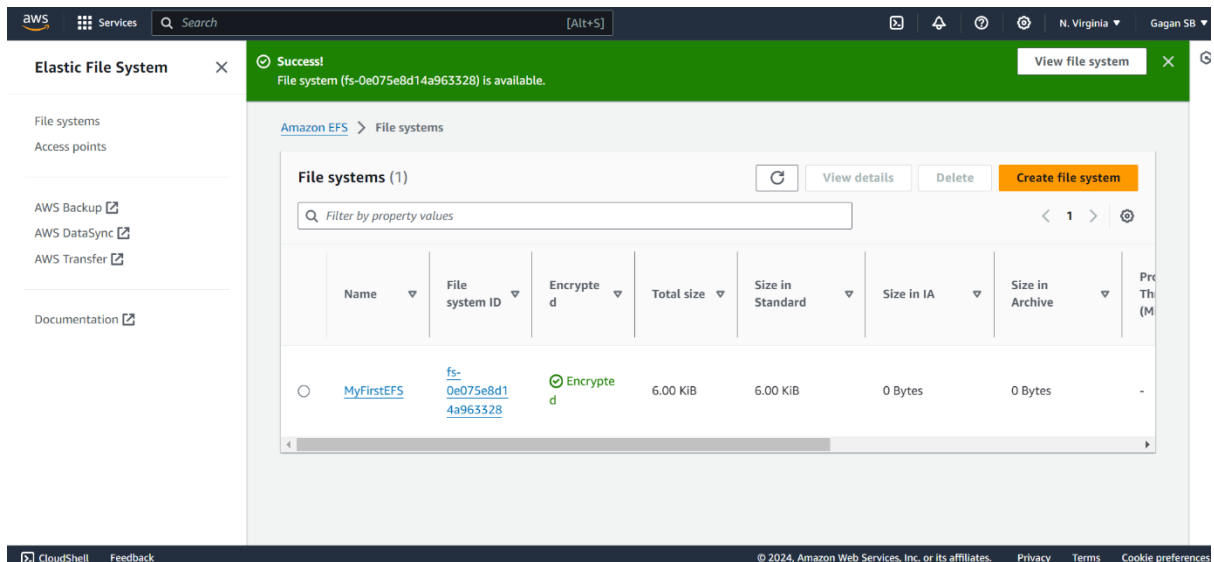
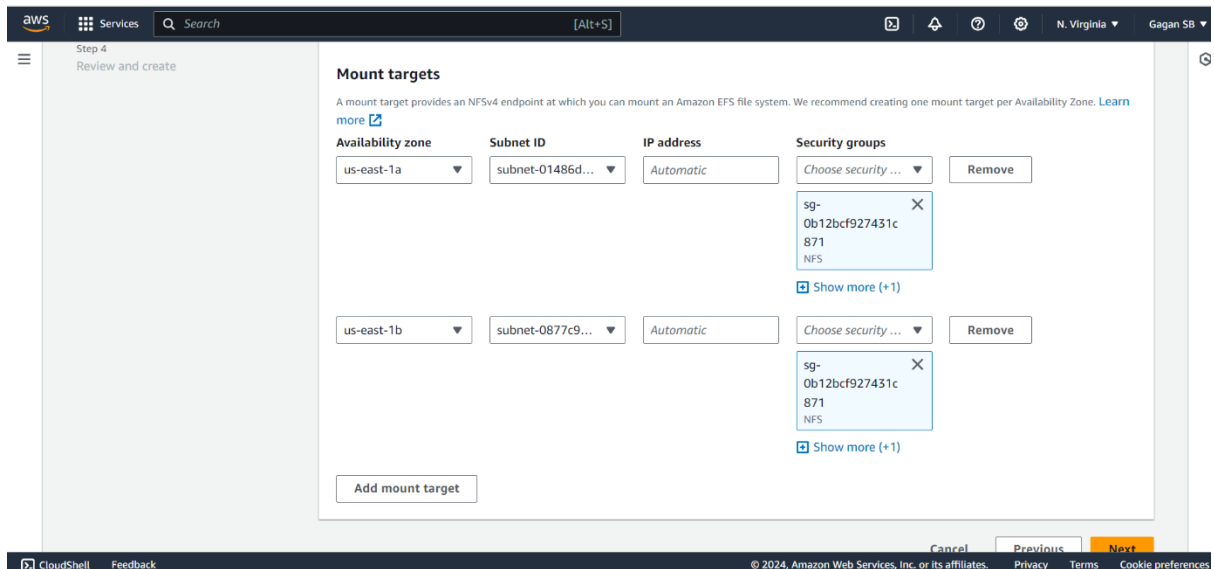
Step1: Create Two EC2 Instances Manually



Step2: Creation of Amazon Elastic File System (EFS) - Scalable, elastic, cloud-native NFS file system.







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Elastic File System

File systems

Access points

AWS Backup

AWS DataSync

AWS Transfer

Documentation

Transition into Standard:None

Availability zone

Regional

DNS name

fs-0e075e8d14a963328.efs.us-east-1.amazonaws.com

Replication overwrite protection

Enabled

Metered size

Monitoring

Tags

File system policy

Access points

Network

Replication

Network

🔄

Manage

🔍

Availability zone	Mount target ID	Subnet ID	Mount target state	IP address	Network interface ID	Security groups
us-east-1a	fsmt-01b98a500ee3e54d3	subnet-01486d4d9a7142b77	Creating	172.31.33.104	eni-0743fcf92477e3847	-
us-east-1b	fsmt-01059f135fa0dba0d	subnet-0877c9da26b9369bb	Creating	172.31.12.45	eni-0141f188d46075146	-

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Elastic File System

File systems

Access points

AWS Backup

AWS DataSync

AWS Transfer

Documentation

Attach

×

Mount your Amazon EFS file system on a Linux instance. [Learn more](#)

☒ Mount via DNS

☐ Mount via IP

Using the EFS mount helper:

```
sudo mount -t efs -o tls fs-0e075e8d14a963328:/ efs
```

Using the NFS client:

```
sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsz=1048576,hard,timeo=600,retrans=2,noresvport fs-0e075e8d14a963328.efs.us-east-1.amazonaws.com:/ efs
```

See our user guide for more information. [Learn more](#)

Close

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EC2 Dashboard

EC2 Global View

Events

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Preview

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

New

Images

Elastic Block Store

Volumes

Instances (1/2) Info

🔄

Connect

Instance state

Actions

Launch instances

🔍

Find Instance by attribute or tag (case-sensitive)

Any state

Instance state = running

Clear filters

< 1 >

🔍

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input type="checkbox"/>	EFS-Instance-2	i-0ba986ce9f934c285	Running	t2.micro	Initializing	View alarms	us-east-1b
<input checked="" type="checkbox"/>	EFS-Instance-1	i-035a691fb84937164	Running	t2.micro	Initializing	View alarms	us-east-1a

Instance: i-035a691fb84937164 (EFS-Instance-1)

Details

Status and alarms New

Monitoring

Security

Networking

Storage

Tags

▼ Instance summary Info

Instance ID

i-035a691fb84937164 (EFS-Instance-1)

Public IPv4 address

52.23.255.154 [open address](#)

Private IPv4 addresses

172.31.36.255

IPv6 address

Running

Public IPv4 DNS

ec2-52-23-255-154.compute-1.amazonaws.com

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ConnectToInstanceinstanceId=i-035a691fb84937164© 2024, Amazon Web Services, Inc. or its affiliates. PrivacyTermsCookie preferences

```
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[ec2-user@EFS-Instance-1 ~]$ sudo yum install amazon-efs-utils
Last metadata expiration check: 0:05:18 ago on Mon Mar 4 13:01:03 2024.
Dependencies resolved.

=====
Package                                Architecture      Version            Repository          Size
-----
Installing:
amazon-efs-utils                        noarch            1.35.1-1.amzn2023  amazonlinux         57 k
Installing dependencies:
stunnel                                x86_64            5.58-1.amzn2023.0.2  amazonlinux         156 k
=====

Transaction Summary
-----
Install 2 Packages

Total download size: 213 k
Installed size: 566 k
Is this ok [y/N]: y
```

EC2 Dashboard

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Dedicated Hosts

Capacity Reservations

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Images

Elastic Block Store

Volumes

Instances (1/2) Info

Find Instance by attribute or tag (case-sensitive)

Any state

Instance state = running

Clear filters

1

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zo
<input type="checkbox"/>	EFS-Instance-1	i-035a691fb84937164	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1a
<input checked="" type="checkbox"/>	EFS-Instance-2	i-0ba986ce9f934c285	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1b

Instance: i-0ba986ce9f934c285 (EFS-Instance-2)

Details

Status and alarms New

Monitoring

Security

Networking

Storage

Tags

Instance summary Info

Instance ID

i-0ba986ce9f934c285 (EFS-Instance-2)

Public IPv4 address

3.239.228.135

open address

Private IPv4 addresses

172.31.5.112

IPv6 address

Instance state

Running

Public IPv4 DNS

ec2-3-239-228-135.compute-1.amazonaws.com

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Co...

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Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023

[ec2-user@ip-172-31-5-112 ~]$ sudo hostnamectl set-hostname EFS-Instance-2
[ec2-user@ip-172-31-5-112 ~]$ bash
[ec2-user@EFS-Instance-2 ~]$ sudo yum install amazon-efs-utils
Last metadata expiration check: 0:05:44 ago on Mon Mar 4 13:01:42 2024.
Dependencies resolved.

=====
Package                                Architecture      Version            Repository          Size
-----
Installing:
amazon-efs-utils                        noarch            1.35.1-1.amzn2023  amazonlinux         57 k
Installing dependencies:
stunnel                                x86_64            5.58-1.amzn2023.0.2  amazonlinux         156 k
=====

Transaction Summary
-----
Install 2 Packages

Total download size: 213 k
Installed size: 566 k
Is this ok [y/N]: y
```

Here in **EFS-Instance-1**, I am creating files, and the same files could be seen in **EFS-Instance-2**.
Thus, our project satisfied.

```
aws Services Search [Alt+S] N. Virginia Gagan SB
Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023
Last login: Mon Mar 4 13:06:47 2024 from 18.206.107.29
[ec2-user@EFS-Instance-2 ~]$ mkdir efs
[ec2-user@EFS-Instance-2 ~]$ ls
efs
[ec2-user@EFS-Instance-2 ~]$ sudo mount -t efs -o tls fs-0e075e8d14a963328:/ efs
[ec2-user@EFS-Instance-2 ~]$
```

```
aws Services Search [Alt+S] N. Virginia Gagan SB
Total download size: 213 k
Installed size: 566 k
Is this ok [y/N]: y
Downloading Packages:
(1/2): amazon-efs-utils-1.35.1-1.amzn2023.noarch.rpm      838 kB/s | 57 kB    00:00
(2/2): stunnel-5.58-1.amzn2023.0.2.x86_64.rpm          1.6 MB/s | 156 kB   00:00
-----
Total                                                    1.3 MB/s | 213 kB   00:00
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing      :                                1/1
  Installing    : stunnel-5.58-1.amzn2023.0.2.x86_64 1/2
  Running scriptlet: stunnel-5.58-1.amzn2023.0.2.x86_64 1/2
  Installing    : amazon-efs-utils-1.35.1-1.amzn2023.noarch 2/2
  Running scriptlet: amazon-efs-utils-1.35.1-1.amzn2023.noarch 2/2
  Verifying     : stunnel-5.58-1.amzn2023.0.2.x86_64 1/2
  Verifying     : amazon-efs-utils-1.35.1-1.amzn2023.noarch 2/2

Installed:
  amazon-efs-utils-1.35.1-1.amzn2023.noarch                stunnel-5.58-1.amzn2023.0.2.x86_64

Complete!
[ec2-user@EFS-Instance-1 ~]$ mkdir efs
[ec2-user@EFS-Instance-1 ~]$ ls
efs
[ec2-user@EFS-Instance-1 ~]$ sudo mount -t efs -o tls fs-0e075e8d14a963328:/ efs
[ec2-user@EFS-Instance-1 ~]$
```

```
aws Services Search [Alt+S] N. Virginia Gagan SB
[ec2-user@EFS-Instance-2 efs]$ cd
[ec2-user@EFS-Instance-2 ~]$ cd efs
[ec2-user@EFS-Instance-2 efs]$ touch file1
touch: cannot touch 'file1': Permission denied
[ec2-user@EFS-Instance-2 efs]$ sudo touch file1
[ec2-user@EFS-Instance-2 efs]$ ls
file1
[ec2-user@EFS-Instance-2 efs]$
```

```
aws Services Search [Alt+S] N. Virginia Gagan SB
[ec2-user@EFS-Instance-1 ~]$ ls
efs
[ec2-user@EFS-Instance-1 ~]$ cd efs
[ec2-user@EFS-Instance-1 efs]$ ls
file1
[ec2-user@EFS-Instance-1 efs]$
```

```
aws Services Search [Alt+S] N. Virginia Gagan SB
[ec2-user@EFS-Instance-2 efs]$ cd
[ec2-user@EFS-Instance-2 ~]$ cd efs
[ec2-user@EFS-Instance-2 efs]$ touch file1
touch: cannot touch 'file1': Permission denied
[ec2-user@EFS-Instance-2 efs]$ sudo touch file1
[ec2-user@EFS-Instance-2 efs]$ ls
file1
[ec2-user@EFS-Instance-2 efs]$ mkdir EFS-2
mkdir: cannot create directory 'EFS-2': Permission denied
[ec2-user@EFS-Instance-2 efs]$ sudo mkdir EFS-2
[ec2-user@EFS-Instance-2 efs]$ sudo mkdir EFS-3
[ec2-user@EFS-Instance-2 efs]$ sudo mkdir EFS-4
[ec2-user@EFS-Instance-2 efs]$ ls
EFS-2 EFS-3 EFS-4 file1
[ec2-user@EFS-Instance-2 efs]$
```

```
aws Services Search [Alt+S] N. Virginia Gagan SB
[ec2-user@EFS-Instance-1 ~]$ ls
efs
[ec2-user@EFS-Instance-1 ~]$ cd efs
[ec2-user@EFS-Instance-1 efs]$ ls
file1
[ec2-user@EFS-Instance-1 efs]$ ls
EFS-2 EFS-3 EFS-4 file1
[ec2-user@EFS-Instance-1 efs]$
```