
# ASSIGNMENT-1

A. Attach one EBS to one instance
B. Attach one EFS to two instances

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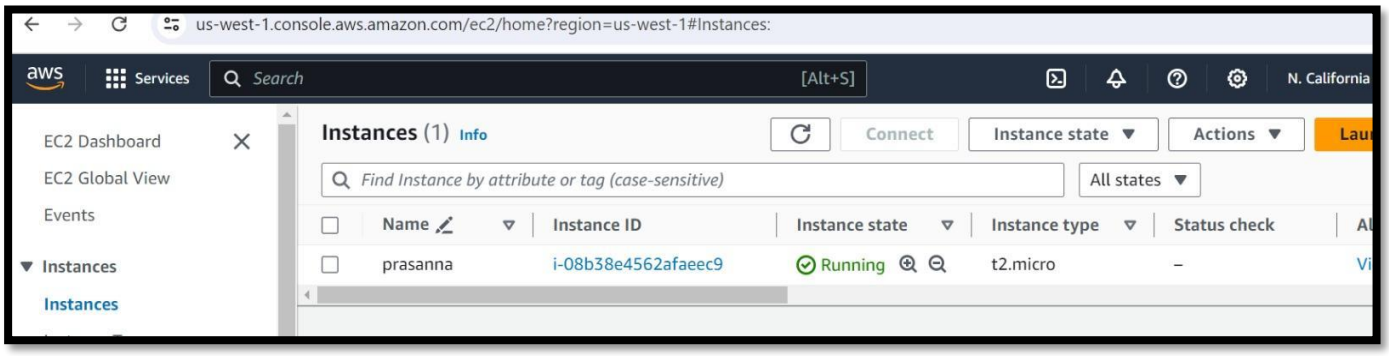
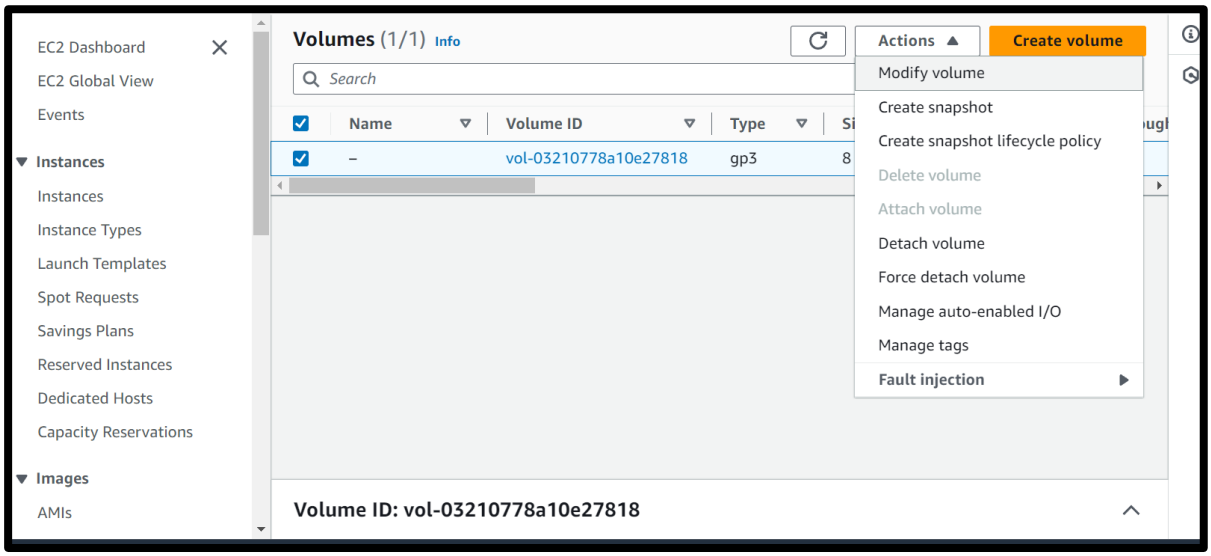
# A. Attach one EBS to one instance

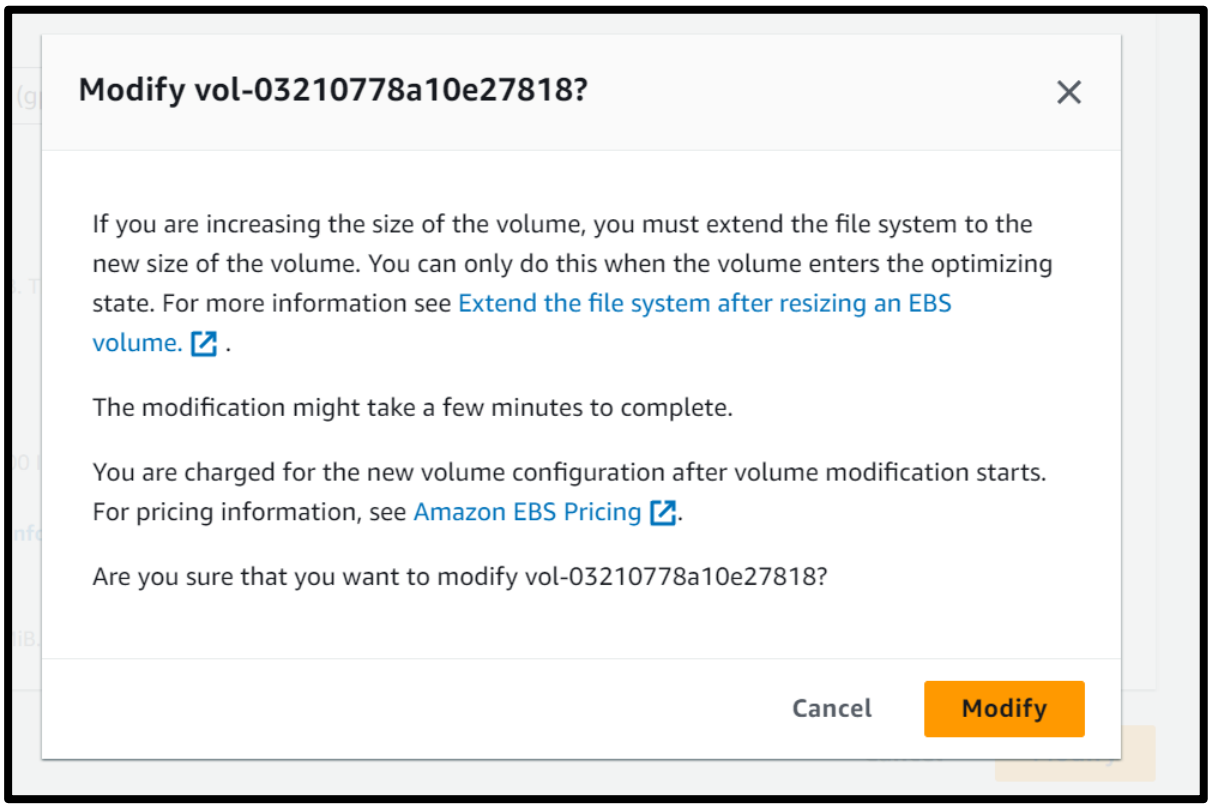
## ❖ Create an instance



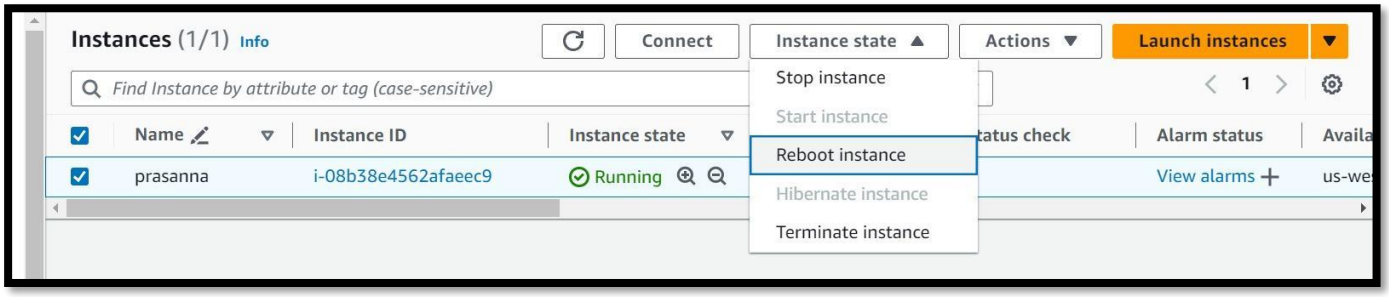

```
root@ip-172-31-27-14:~# df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/root       6.8G  1.6G  5.2G  23% /
tmpfs           479M     0  479M   0% /dev/shm
tmpfs           192M  868K  191M   1% /run
tmpfs           5.0M     0  5.0M   0% /run/lock
/dev/xvda16     881M   76M  744M  10% /boot
/dev/xvda15     105M  6.1M   99M   6% /boot/efi
tmpfs            96M   12K   96M   1% /run/user/1000
root@ip-172-31-27-14:~#
```

# ❖ Modify volume



## ❖ Reboot instance




```
root@ip-172-31-27-14:~# df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/root        19G  1.6G   17G   9% /
tmpfs           479M     0  479M   0% /dev/shm
tmpfs           192M  860K  191M   1% /run
tmpfs           5.0M     0  5.0M   0% /run/lock
/dev/xvda16     881M   76M  744M  10% /boot
/dev/xvda15     105M  6.1M   99M   6% /boot/efi
tmpfs            96M   12K   96M   1% /run/user/1000
root@ip-172-31-27-14:~#
```

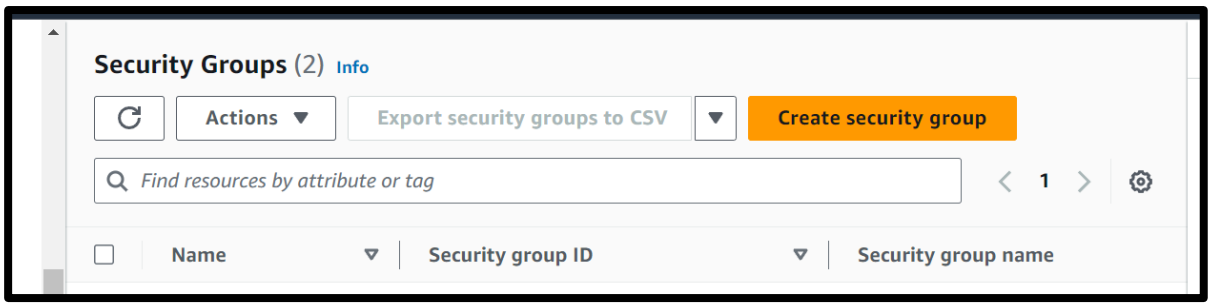
# ❖Process

- List all the block devices in Linux machine
- Check if there any file system on this device
- Create file system
- Check if there any file system on this device
- Create a directory
- Mount the directories
- Check the disk free space
- List all block device by using “ lsblk ” command
- Check file system by using “ file –s /dev/xvdf ”command
- Create directory by using “ mkdir –p app/user “ command
- Mount the directory by using “ mount /dev/xvdf app/user “ command
- To check disk free by using “df –h“ command

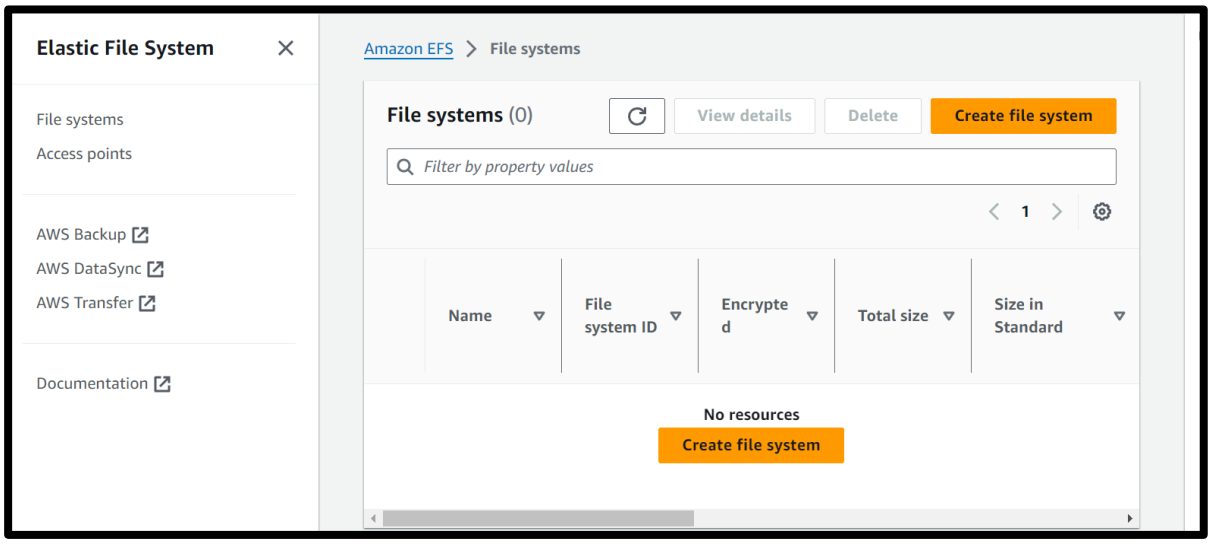
```
root@ip-172-31-21-250:~# mkdir -p vcube/vcube126
root@ip-172-31-21-250:~# mount /dev/xvdf/vcube/vcube126
mount: /dev/xvdf/vcube/vcube126: can't find in /etc/fstab.
root@ip-172-31-21-250:~# mount /dev/xvdf vcube/vcube126
root@ip-172-31-21-250:~# df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/root        19G  1.6G   17G   9% /
tmpfs           479M     0  479M   0% /dev/shm
tmpfs           192M  864K  191M   1% /run
tmpfs           5.0M     0  5.0M   0% /run/lock
/dev/xvda16     881M   76M  744M  10% /boot
/dev/xvda15     105M  6.1M   99M   6% /boot/efi
tmpfs            96M   12K   96M   1% /run/user/1000
/dev/xvdf        10G  228M  9.8G   3% /root/vcube/vcube126
root@ip-172-31-21-250:~#
```

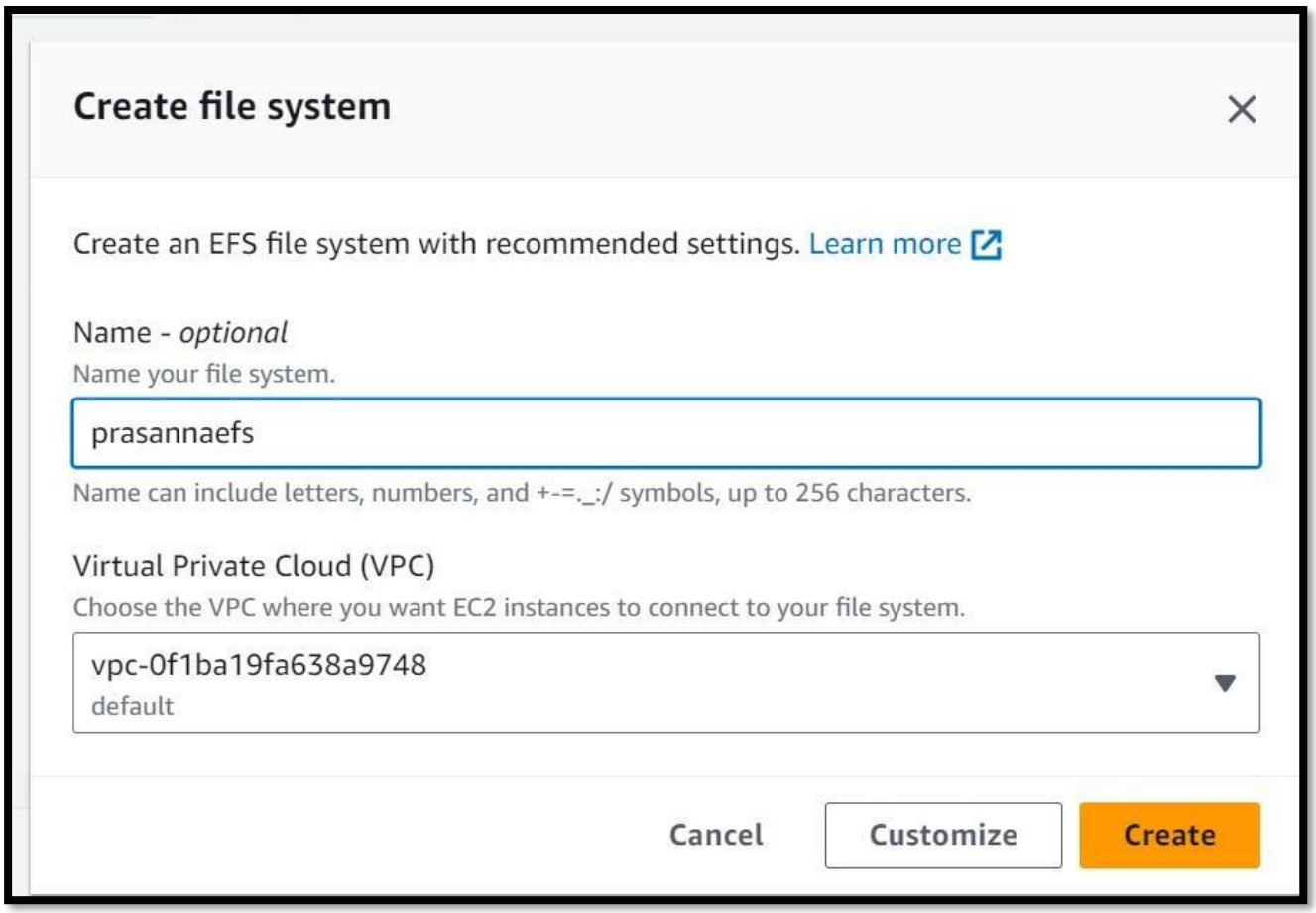
# B. Attach one EFS to two instances

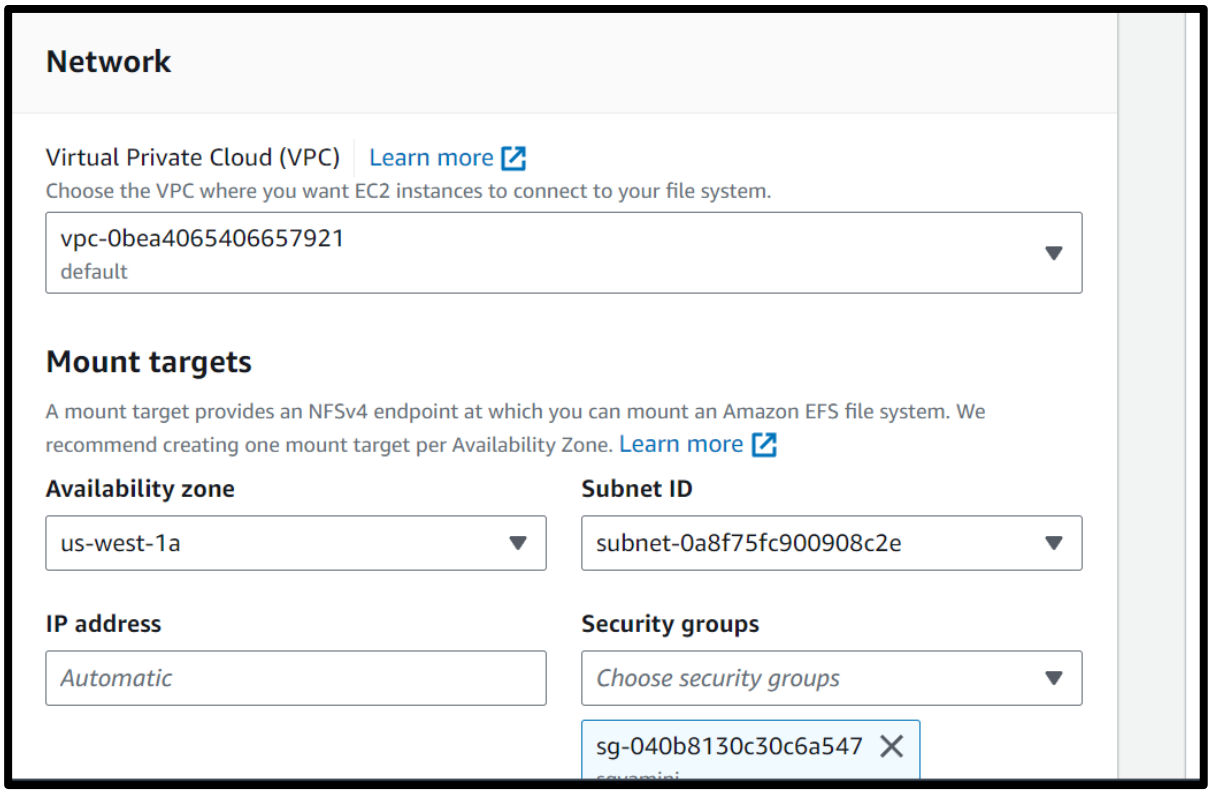
## ❖ Create a security group

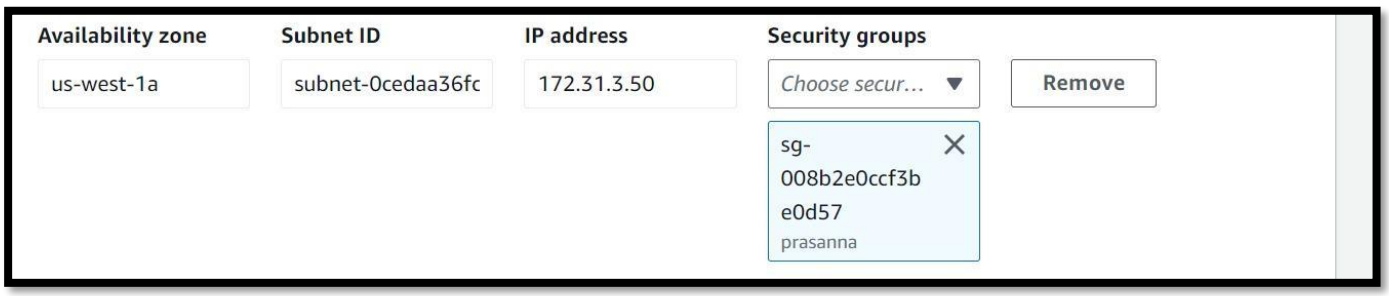



## ❖ Create a EFS file system

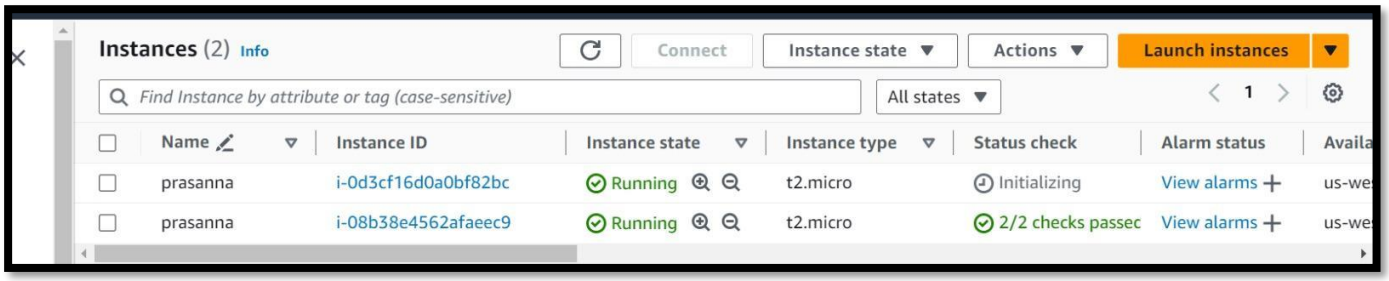



Network
Virtual Private Cloud (VPC)
Learn more
Choose the VPC where you want EC2 instances to connect to your file system.
vpc-0bea4065406657921
default
Mount targets
A mount target provides an NFSv4 endpoint at which you can mount an Amazon EFS file system. We recommend creating one mount target per Availability Zone.
Learn more
Availability zone
us-west-1a
Subnet ID
subnet-0a8f75fc900908c2e
IP address
Automatic
Security groups
Choose security groups
sg-040b8130c30c6a547


Availability zone
Subnet ID
IP address
Security groups
us-west-1a
subnet-0cedaa36fc
172.31.3.50
Choose secur...
Remove
sg-
008b2e0ccf3b
e0d57
prasanna

# Launch two instances with different zones and connect instances




## EFS - Elastic File Storage

It is designed to share parallelly with thousands of EC2 instances to provide better throughput and IOPS. It is a regional service automatically replicated across multiple AZs to provide High availability and durability.

➔ In server1
Create a file system in one server
Store some data in that file system

➔ In server2
Create a file system in one server
Store some data in that file system

Both servers share same file and data these types of data sharing are known as EFS.

## ❖ Server 1

```
[ec2-user@ip-172-31-15-175 ~]$ sudo -i
[root@ip-172-31-15-175 ~]# cd /mnt
[root@ip-172-31-15-175 mnt]# ls
efs
[root@ip-172-31-15-175 mnt]# cd efs
[root@ip-172-31-15-175 efs]# ls
fs1
[root@ip-172-31-15-175 efs]# cd efs
-bash: cd: efs: No such file or directory
[root@ip-172-31-15-175 efs]#
[root@ip-172-31-15-175 efs]# cd fs1
[root@ip-172-31-15-175 fs1]# vi file1
[root@ip-172-31-15-175 fs1]#
```

## ❖ Server 2

```
[root@ip-172-31-27-36 ~]# cd /mnt
[root@ip-172-31-27-36 mnt]# ls
efs
[root@ip-172-31-27-36 mnt]# cd efs
[root@ip-172-31-27-36 efs]# ls
fs1
[root@ip-172-31-27-36 efs]# cd fs1
[root@ip-172-31-27-36 fs1]# ls
file1
[root@ip-172-31-27-36 fs1]# vi file2
[root@ip-172-31-27-36 fs1]# ls
file1  file2
[root@ip-172-31-27-36 fs1]#
```