

Efs practical-

Create a efs file system..

The screenshot shows the Amazon EFS console interface. At the top, there's a search bar with '[Alt+S]' and navigation icons. Below the header, the 'File systems (1)' section is visible. It includes a search bar with the placeholder 'Filter by property values' and a 'Create file system' button. A table lists the file system details:

Name	File system ID	Encrypted	Total size	Size in Standard	Size in IA	Size in Archive	Provisioned Throughput (MiB/s)
demoefs001	fs-0ce499a06df6994ed	Encrypted	6.00 KiB	6.00 KiB	0 Bytes	0 Bytes	-

Create two instance in two different availability zones

The screenshot shows the Amazon EC2 console interface. It displays two running instances in different availability zones. The table below summarizes the instance details:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
2b-efsdemoa-...	i-065d87b3622a7d05c	Running	t2.micro	2/2 checks passed	View alarms	ap-south-1b
2efsdemo-ap-...	i-0e55138d62356bb00	Running	t2.micro	2/2 checks passed	View alarms	ap-south-1a

The EFS security group should be same as the instance

Availability zone (AZ-ID)	Mount target ID	Subnet ID	Mount target state	IP address	Network interface ID	Security groups
ap-south-1a (aps1-az1)	fsmt-0dce81e71e1d1a120	subnet-0967f48883ab93b47	Available	172.31.38.56	eni-0eb1aef101a0688dd	sg-07c5c5defe6ca61ac (2demoefs)
ap-south-1b (aps1-az3)	fsmt-0c20caedb66a455d0	subnet-067836c0c26a9e772	Available	172.31.7.235	eni-0cc24c30596c0e551	sg-07c5c5defe6ca61ac (2demoefs)
ap-south-1c (aps1-az2)	fsmt-095d4e862de1bdf2e	subnet-0bcbd6e572a9b5dbd	Available	172.31.17.141	eni-031cb27bbba450a66	sg-07c5c5defe6ca61ac (2demoefs)

Connect via DNS

The screenshot shows the 'Mount your Amazon EFS file system on a Linux instance' dialog box. It has two tabs: 'Mount via DNS' (selected) and 'Mount via IP'. Below the tabs, there's a section 'Using the EFS mount helper:' with a terminal snippet:

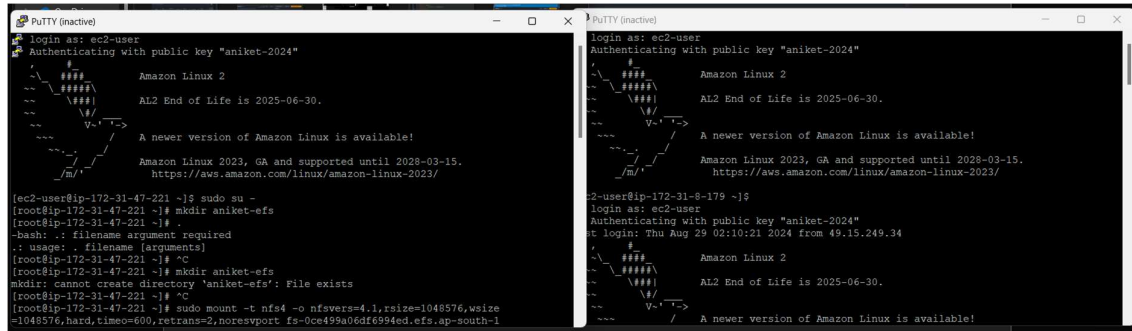
```
sudo mount -t efs -o tls fs-0ce499a06df6994ed:/ efs
```

Below that, there's a section 'Using the NFS client:' with a terminal snippet:

```
sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsz=1048576,hard,timeo=600,retrans=2,noresvport fs-0ce499a06df6994ed.efs.ap-south-1.amazonaws.com:/ efs
```

At the bottom, there's a 'Close' button.

Connect both the instance via putty



```
login as: ec2-user
Authenticating with public key "aniket-2024"

Amazon Linux 2
AL2 End of Life is 2025-06-30.

A newer version of Amazon Linux is available!
Amazon Linux 2023, GA and supported until 2028-03-15.
https://aws.amazon.com/linux/amazon-linux-2023/

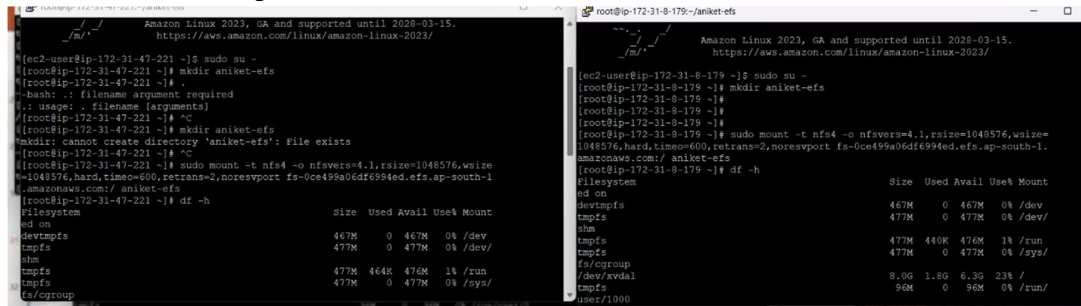
[ec2-user@ip-172-31-47-221 ~]$ sudo su -
[root@ip-172-31-47-221 ~]# mkdir aniket-efs
[root@ip-172-31-47-221 ~]# .
-bash: .: filename argument required
.: usage: . filename [arguments]
[root@ip-172-31-47-221 ~]# ^C
[root@ip-172-31-47-221 ~]# mkdir aniket-efs
mkdir: cannot create directory 'aniket-efs': File exists
[root@ip-172-31-47-221 ~]# ^C
[root@ip-172-31-47-221 ~]# sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport fs-0ce499a06df6994ed.efs.ap-south-1

login as: ec2-user
Authenticating with public key "aniket-2024"
st login: Thu Aug 29 02:10:21 2024 from 49.15.249.34

Amazon Linux 2
AL2 End of Life is 2025-06-30.

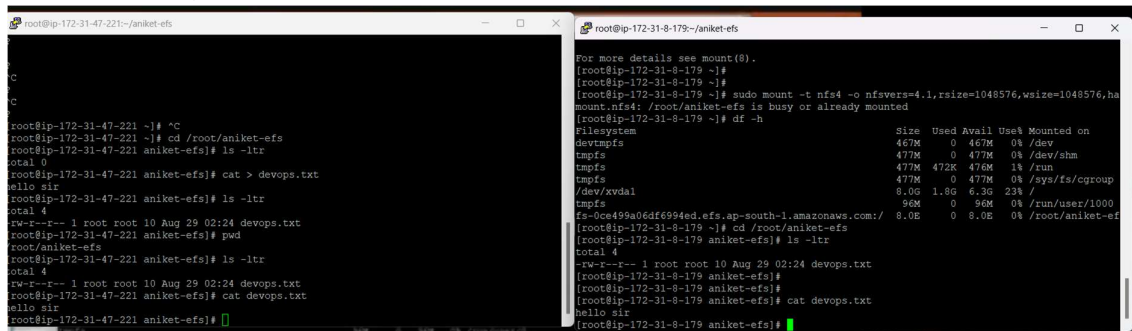
A newer version of Amazon Linux is available!
```

created directory and mounted efs via command



```
[ec2-user@ip-172-31-47-221 ~]$ sudo su -
[root@ip-172-31-47-221 ~]# mkdir aniket-efs
-bash: .: filename argument required
.: usage: . filename [arguments]
[root@ip-172-31-47-221 ~]# ^C
[root@ip-172-31-47-221 ~]# mkdir aniket-efs
mkdir: cannot create directory 'aniket-efs': File exists
[root@ip-172-31-47-221 ~]# ^C
[root@ip-172-31-47-221 ~]# sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport fs-0ce499a06df6994ed.efs.ap-south-1
[root@ip-172-31-47-221 ~]# df -h
Filesystem
Size Used Avail Use% Mounted on
devtmpfs 467M 0 467M 0% /dev
tmpfs 477M 0 477M 0% /dev/
shm 477M 440K 476M 1% /run
tmpfs 477M 0 477M 0% /sys/
fs/cgroup
/dev/xvda1 8.0G 1.8G 6.3G 23% /
tmpfs 90M 0 90M 0% /run/user/1000
user/1000
```

successfully create a file in 1a and the file visible in 1b as well



```
For more details see mount(8).
[root@ip-172-31-8-179 ~]#
[root@ip-172-31-8-179 ~]#
[root@ip-172-31-8-179 ~]# sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport fs-0ce499a06df6994ed.efs.ap-south-1
mount.nfs4: /root/aniket-efs is busy or already mounted
[root@ip-172-31-8-179 ~]# df -h
Filesystem
Size Used Avail Use% Mounted on
devtmpfs 467M 0 467M 0% /dev
tmpfs 477M 0 477M 0% /dev/
shm 477M 440K 476M 1% /run
tmpfs 477M 0 477M 0% /sys/
fs/cgroup
/dev/xvda1 8.0G 1.8G 6.3G 23% /
tmpfs 90M 0 90M 0% /run/user/1000
fs-0ce499a06df6994ed.efs.ap-south-1.amazonaws.com/ 8.0E 0 8.0E 0% /root/aniket-ef

total 4
-rw-r--r-- 1 root root 10 Aug 29 02:24 devops.txt
[root@ip-172-31-8-179 ~]# cd /root/aniket-efs
[root@ip-172-31-8-179 aniket-efs]# ls -ltr
total 4
-rw-r--r-- 1 root root 10 Aug 29 02:24 devops.txt
[root@ip-172-31-8-179 aniket-efs]# cat devops.txt
hello sir
[root@ip-172-31-8-179 aniket-efs]#
```

THANK YOU