

## Task 4: S3

1. 1. Create 2 servers and try to access the same disk from 2 servers.

2. 2. How to mount the s3 bucket on top of Linux if i run df -h command it should show S3 bucket disk information

Follow the below steps to **mount the s3 bucket on top of Linux if and run df -h command**  
<https://cloudkul.com/blog/mounting-s3-bucket-linux-ec2-instance/>

```
[root@ip-172-31-21-165 s3fs-fuse]# which s3fs
/usr/bin/s3fs
[root@ip-172-31-21-165 s3fs-fuse]# [REDACTED]

[root@ip-172-31-21-165 s3fs-fuse]# sudo make install
Making install in src
make[1]: Entering directory '/root/s3fs-fuse/src'
make[2]: Entering directory '/root/s3fs-fuse/src'
/usr/bin/mkdir -p '/usr/bin'
/usr/bin/install -c s3fs '/usr/bin'
make[2]: Nothing to be done for 'install-data-am'.
make[2]: Leaving directory '/root/s3fs-fuse/src'
make[1]: Leaving directory '/root/s3fs-fuse/src'
Making install in test
make[1]: Entering directory '/root/s3fs-fuse/test'
make[2]: Entering directory '/root/s3fs-fuse/test'
make[2]: Nothing to be done for 'install-exec-am'.
make[2]: Nothing to be done for 'install-data-am'.
make[2]: Leaving directory '/root/s3fs-fuse/test'
make[1]: Leaving directory '/root/s3fs-fuse/test'
Making install in doc
make[1]: Entering directory '/root/s3fs-fuse/doc'
make[2]: Entering directory '/root/s3fs-fuse/doc'
make[2]: Nothing to be done for 'install-exec-am'.
/usr/bin/mkdir -p '/usr/share/man/man1'
/usr/bin/install -c -m 644 man/s3fs.1 '/usr/share/man/man1'
make[2]: Leaving directory '/root/s3fs-fuse/doc'
make[1]: Leaving directory '/root/s3fs-fuse/doc'
make[1]: Entering directory '/root/s3fs-fuse'
make[2]: Entering directory '/root/s3fs-fuse'
make[2]: Nothing to be done for 'install-exec-am'.
make[2]: Nothing to be done for 'install-data-am'.
make[2]: Leaving directory '/root/s3fs-fuse'
make[1]: Leaving directory '/root/s3fs-fuse'
[root@ip-172-31-21-165 s3fs-fuse]# which s3fs
/usr/bin/s3fs
[root@ip-172-31-21-165 s3fs-fuse]# touch /etc/passwd-s3fs
[root@ip-172-31-21-165 s3fs-fuse]# Your_accesskey:Your_secretkey
-bash: Your_accesskey:Your_secretkey: command not found
[root@ip-172-31-21-165 s3fs-fuse]# vim /etc/passwd-s3fs
[root@ip-172-31-21-165 s3fs-fuse]# sudo chmod 640 /etc/passwd-s3fs
[root@ip-172-31-21-165 s3fs-fuse]# mkdir /mys3bucket
[root@ip-172-31-21-165 s3fs-fuse]# s3fs bucketabcabc -o use_cache=/tmp -o allow_other -o uid=1001 -o mp_umask=002 -o multireq_max=5 /mys3bucket
```

```
[root@ip-172-31-21-165 s3fs-fuse]# which s3fs
/usr/bin/s3fs
[root@ip-172-31-21-165 s3fs-fuse]# nano /etc/rc.local
[root@ip-172-31-21-165 s3fs-fuse]# tc/rc.local
[root@ip-172-31-21-165 s3fs-fuse]# s3fs bucketabcabc /mys3bucket -o use_cache=/tmp -o allow_other -o uid=1001 -o mp_umask=002 -o multireq_max=5 -o use_lease_time -o url=https://s3-{us-east-1}.amazonaws.com
-bash: tc/rc.local: No such file or directory
-bash: [root@ip-172-31-21-165: command not found
[root@ip-172-31-21-165 s3fs-fuse]# /usr/local/bin/s3fs bucketabcabc /mys3bucket -o use_cache=/tmp -o allow_other -o uid=1001 -o mp_umask=002 -o multireq_max=5 -o use_lease_time -o url=https://s3-{us-east-1}.amazonaws.com
s3fs: MOUNTPOINT directory /mys3bucket is not empty. if you are sure this is safe, can use the 'nonempty' mount option.
[root@ip-172-31-21-165 s3fs-fuse]# which s3fs
/usr/bin/s3fs
/usr/bin/which: no s3fs in (/usr/local/bin)
[root@ip-172-31-21-165 s3fs-fuse]# nano /etc/rc.local
[root@ip-172-31-21-165 s3fs-fuse]# df -Th
Filesystem      Type  Size  Used  Avail Use% Mounted on
devtmpfs        devtmpfs 4.0M   0    4.0M  0% /dev
tmpfs           tmpfs   475M   0   475M  0% /dev/shm
tmpfs           tmpfs   190M  448K  190M  1% /run
/dev/xvda1      xfs    8.0G  1.9G  6.1G  24% /
tmpfs           tmpfs   475M   0   475M  0% /tmp
/dev/xvda12     vfat   10M  1.3M  8.7M  13% /boot/efi
tmpfs           tmpfs   95M   0   95M  0% /run/user/1000
s3fs            fuse.s3fs 64P   0   64P  0% /mys3bucket
[root@ip-172-31-21-165 s3fs-fuse]#
```

5) What is the difference between systemctl start and systemctl enable?

Key Differences:		
Command	systemctl start	systemctl enable
Function	Starts the service immediately	Enables the service to start at boot time
Immediate Effect	Starts the service for the current session	Does not start the service, just sets it to start on boot
Boot Impact	No effect on boot (service won't start after reboot)	Service will start automatically on boot
Example Usage	systemctl start nginx	systemctl enable nginx