

DAY 5 ASSIGNMENT

- 1. Add a 10GB disk to the CentOS.
- 2. Create 2 Partitions 4GB and 6GB of Space respectively.
- 3. Format 4GB with xfs and 6GB with ext4 file system.
- 4. Mount 4GB and 6GB in /data and /music directory respectively.
- 5. Create one file of 1GB in each of the mount point created above.
- 6. Verify the disk Consumption and disk space free in the mounted partitions.

1. Add a 10GB disk to the CentOS.

Ans. Verify That Disk Is Added Using fdisk -I

```
[root@localhost ~]# fdisk -l
Disk /dev/sda: 32.2 GB, 32212254720 bytes, 62914560 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x0008367b
  Device Boot
                    Start
                                           Blocks
                                                        System
/dev/sdal
                     2048
                              1026047
                                           512000
                                                    83
                                                        Linux
/dev/sda2
                                         20480000
                  1026048
                             41986047
                                                        Linux
/dev/sda3
                 41986048
                             50178047
                                          4096000
                                                    82 Linux swap / Solaris
Disk /dev/sdb: 21.5 GB, 21474836480 bytes, 41943040 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x2e86ee15
  Device Boot
                    Start
                                  End
                                           Blocks
                                                        System
/dev/sdb1
                     2048
                             20973567
                                         10485760
                                                        Linux
Disk /dev/sdc: 11.8 GB, 11811160064 bytes, 23068672 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
```

#I Have Taken 11Gb To Avoid Any Kind Of Storage Issue.

2. Create 2 Partitions 4GB and 6GB of Space respectively.

Ans. Creating 2 Partition

```
Applications Places Terminal
                                                                      root@localhost:~
File Edit View Search Terminal Help
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
[root@localhost ~]# clr
bash: clr: command not found...
[root@localhost ~]# clear
[root@localhost ~l# fdisk /dev/sdc
Welcome to fdisk (util-linux 2.23.2).
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.
Device does not contain a recognized partition table
Building a new DOS disklabel with disk identifier 0x23ea359c.
Command (m for help): n
Partition type:
      primary (0 primary, 0 extended, 4 free)
  e extended
Select (default p): p
Partition number (1-4, default 1): 1
First sector (2048-23068671, default 2048):
Using default value 2048
Last sector, +sectors or +size{K,M,G} (2048-23068671, default 23068671): +4G
Partition 1 of type Linux and of size 4 GiB is set
Command (m for help): n
Partition type:
       primary (1 primary, 0 extended, 3 free)
      extended
Select (default p): p
Partition number (2-4, default 2): 2
First sector (8390656-23068671, default 8390656):
Using default value 8390656
Last sector, +sectors or +size{K,M,G} (8390656-23068671, default 23068671): +6G
Partition 2 of type Linux and of size 6 GiB is set
```

3. Format 4GB with xfs and 6GB with ext4 file system.

Ans.

Formatting and Creating File System Using mkfs Command

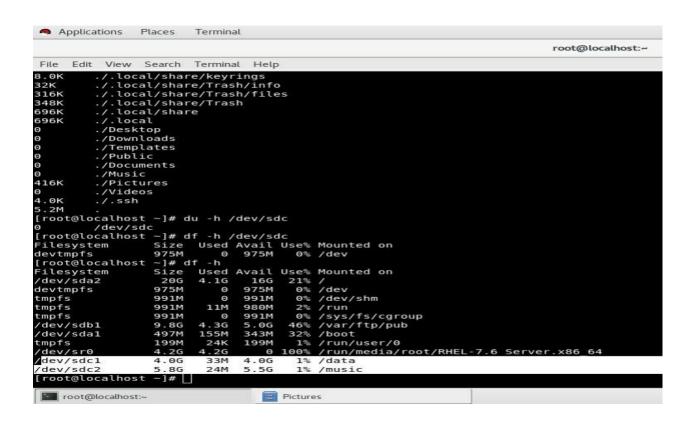


4. Mount 4GB and 6GB in /data and /music directory respectively.

Ans.

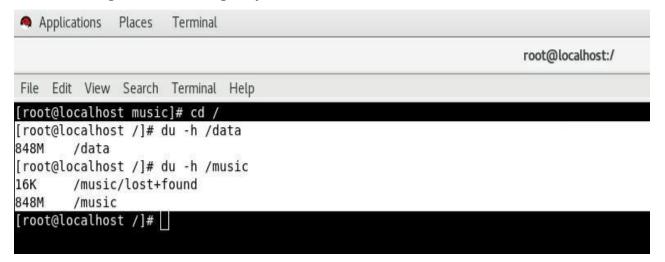
Creating Mount Point Using fstab File

Verifying Mount Point Is Created



5. Create one file of 1GB in each of the mount point created above.

Ans. Creating 1Gb File Using seq > 1000000 Command



#Here the File Created Is Having 848 Mb Which Is Closest To 1Gb

6. Verify the disk Consumption and disk space free in the mounted partitions.

Ans. Verify Disk Usage Using df -h Command

```
Applications
             Places
                    Terminal
                                                                   root@localhost:~
File Edit View Search Terminal Help
[root@localhost ~]# df -h
Filesystem
               Size Used Avail Use% Mounted on
/dev/sda2
               20G 4.1G
                           16G 21% /
devtmpfs
               975M
                        0 975M
                                 0% /dev
tmpfs
               991M
                        0 991M
                                 0% /dev/shm
tmpfs
               991M
                      11M 980M
                                 2% /run
tmpfs
               991M
                        0 991M
                                 0% /sys/fs/cgroup
/dev/sdb1
               9.8G 4.3G 5.0G
                                46% /var/ftp/pub
/dev/sda1
               497M 155M 343M
                                32% /boot
tmpfs
               199M
                     28K 199M
                                 1% /run/user/0
               4.2G 4.2G
                          0 100% /run/media/root/RHEL-7.6 Server.x86 64
/dev/sr0
/dev/sdcl
               4.0G 880M 3.2G 22% /data
/dev/sdc2
               5.8G 872M 4.7G 16% /music
[root@localhost ~]#
```