# LetsUpgrade Linux Administration Essentials Batch 1 Assignment Day 5 | 4th December 2020

Step1: Add a 10GB disk to the CentOS.

Verify That Disk Is Added Using fdisk -I

```
Applications Places Terminal
                                                                     root@localhost:~
File Edit View Search Terminal Help
[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
                                 End
                                          Blocks Id System
              2048 1026047 512000 83 Linux
1026048 41986047 20480000 83 Linux
/dev/sdal *
/dev/sda2
/dev/sda3 41986048 50178047
                                                  82 Linux swap / Solaris
                                        4096000
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
                                          Blocks
                 Start
                                 End
                                                   Id System
                            20973567
/dev/sdb1
                   2048
                                        10485760
                                                   83 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
[root@localhost ~]#
```

Taken 11Gb To Avoid Any Kind Of Storage Issue.

#### Step2: Create 2 Partitions 4GB and 6GB of Space respectively.

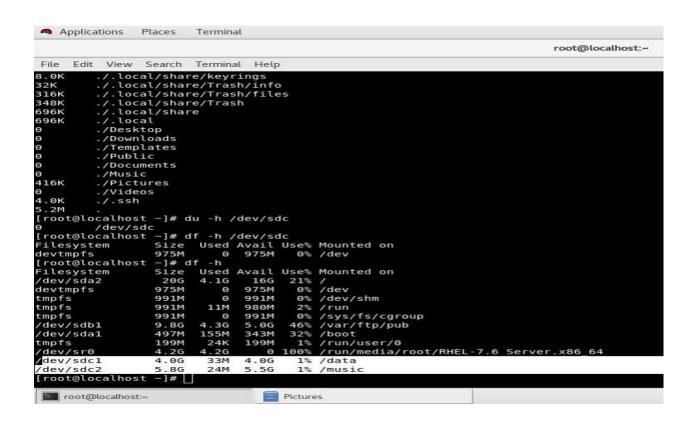
```
Applications Places Terminal
                                                                      root@localhost:~
File Edit View Search Terminal Help
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
[root@localhost ~]# clr
bash: clr: command not found...
[root@localhost ~]# clear
[root@localhost ~]# 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
```

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



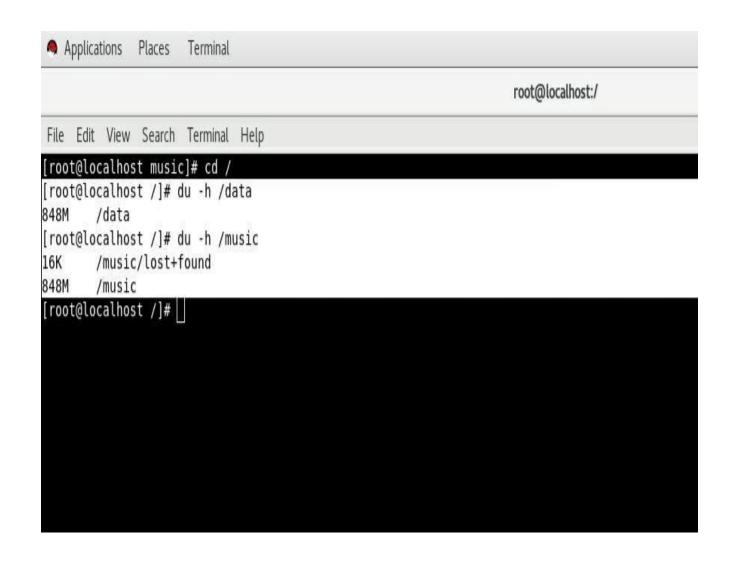
#### Step 4: Mount 4GB and 6GB in /data and /music directory respectively.

```
# /etc/fstab
# Created by anaconda on Thu Apr 23 04:18:30 2020
# Accessible filesystems, by reference, are maintained under '/dev/disk'
# See man pages fstab(5), findfs(8), mount(8) and/or blkid(8) for more info
# UUID=17ad28c5-7578-4822-b5a5-0d4bf2d8fee4 / xfs defaults 0 0 UUID=22ab8e9e-39ca-4f97-8c2e-2c564426ble6 /boot xfs defaults 0 0 UUID=2132d0a-8cd9-4892-a88e-46005b497bc8 swap defaults 0 0 dev/sdb1 /var/ftp/pub ext4 defaults 0 0 dev/sdc1 /data xfs defaults 0 0 dev/sdc1 /data xfs defaults 0 0 defaults 0 0 dev/sdc1 /data xfs defaults 0 0 defaults 0 0 dev/sdc2 /music ext4 defaults 0 0 defaults 0 0 defaults 0 0 dev/sdc1 /dev/sdc2 /music ext4 defaults 0 0 defaults 0 defaults 0 0 defaults 0 0 defaults 0 0 defaults 0 defaults 0 0 default
```



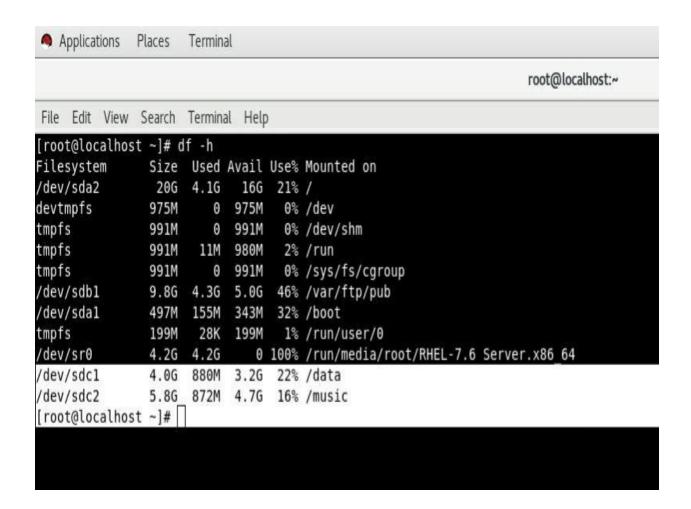
### Step 5: Create one file of 1GB in each of the mount point created above.

Creating 1Gb File Using seq > 1000000 Command



## **Step 6:** Verify the disk Consumption and disk space free in the mounted partitions.

Verify Disk Usage Using df -h Command



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