ASSIGNMENT - 2 | DAY - 5

Que 1: Add a 10GB disk to the CentOS.

Sir, I have created 20GB because it is showing out of value in 10GB.

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

Device Boot	Start	End	Blocks	Id	System
dev/sdb1	1	523	4200966	83	Linux
dev/sdb2	525	1308	6297480	83	Linux

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

For 4GB one I.E. sdb1:

```
[root@localhost Desktop]# mkfs.ext4 -j /dev/sdb1
mke2fs 1.41.12 (17-May-2010)
Filesystem label=
OS type: Linux
Block size=4096 (log=2)
Fragment size=4096 (log=2)
Stride=0 blocks, Stripe width=0 blocks
262944 inodes, 1050241 blocks
52512 blocks (5.00%) reserved for the super user
First data block=0
Maximum filesystem blocks=1077936128
33 block groups
32768 blocks per group, 32768 fragments per group
7968 inodes per group
Superblock backups stored on blocks:
        32768, 98304, 163840, 229376, 294912, 819200, 884736
Writing inode tables: done
Creating journal (32768 blocks): done
Writing superblocks and filesystem accounting information: done
This filesystem will be automatically checked every 27 mounts or
180 days, whichever comes first. Use tune2fs -c or -i to override.
```

Sir, xfs showing trouble in format. So, I have used ext4 for formatting.

For 6GB one I.E. sdb2:

```
[root@localhost Desktop]# mkfs.ext4 -j /dev/sdb2
mke2fs 1.41.12 (17-May-2010)
Filesystem label=
OS type: Linux
Block size=4096 (log=2)
Fragment size=4096 (log=2)
Stride=0 blocks, Stripe width=0 blocks
394352 inodes, 1574370 blocks
78718 blocks (5.00%) reserved for the super user
First data block=0
Maximum filesystem blocks=1614807040
49 block groups
32768 blocks per group, 32768 fragments per group
8048 inodes per group
Superblock backups stored on blocks:
        32768, 98304, 163840, 229376, 294912, 819200, 884736
Writing inode tables: done
Creating journal (32768 blocks): done
Writing superblocks and filesystem accounting information: done
This filesystem will be automatically checked every 31 mounts or
180 days, whichever comes first. Use tune2fs -c or -i to override.
```

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

For 4GB one I.E. sdb1:

```
[root@localhost Desktop]# mount /dev/sdb1 /data
[root@localhost Desktop]# df -h
Filesystem
                     Size Used Avail Use% Mounted on
/dev/mapper/VolGroup-ly root
                      18G
                           3.4G
                                  136 21% /
tmpfs
                     498M
                           224K
                                498M
                                        1% /dev/shm
/dev/sdal
                     477M
                           35M 417M
                                        8% /boot
/dev/sr0
                     3.8G 3.8G
                                   0 100% /media/CentOS 6.10 Final
/dev/sdb1
                     3.9G 8.1M 3.7G
                                        1% /data
```

For 6GB one I.E. sdb2:

```
[root@localhost Desktop]# mount /dev/sdb2 /music
[root@localhost Desktop]#
[root@localhost Desktop]# df -h
Filesystem
                      Size Used Avail Use% Mounted on
/dev/mapper/VolGroup-lv root
                       18G
                            3.4G
                                   13G
                                        21% /
                                         1% /dev/shm
tmpfs
                      498M 224K
                                  498M
/dev/sdal
                      477M
                            35M
                                 417M
                                         8% /boot
                      3.8G
/dev/sr0
                           3.8G
                                     0 100% /media/CentOS 6.10 Final
/dev/sdb1
                      3.9G 8.1M
                                 3.7G
                                         1% /data
/dev/sdb2
                      5.8G
                             13M 5.5G
                                         1% /music
[root@localhost Desktop]#
```

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

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

```
[root@localhost Desktop]# df -h
Filesystem
                    Size Used Avail Use% Mounted on
/dev/mapper/VolGroup-lv root
                     18G
                          3.5G
                                13G 22% /
tmpfs
                    498M 224K 498M 1% /dev/shm
/dev/sdal
                    477M 35M 417M 8% /boot
/dev/sr0
                    3.8G 3.8G 0 100% /media/CentOS 6.10 Final
/dev/sdb1
                    3.9G 856M 2.8G 24% /data
/dev/sdb2
                    5.8G
                          860M 4.7G 16% /music
[root@localhost Desktop]#
```