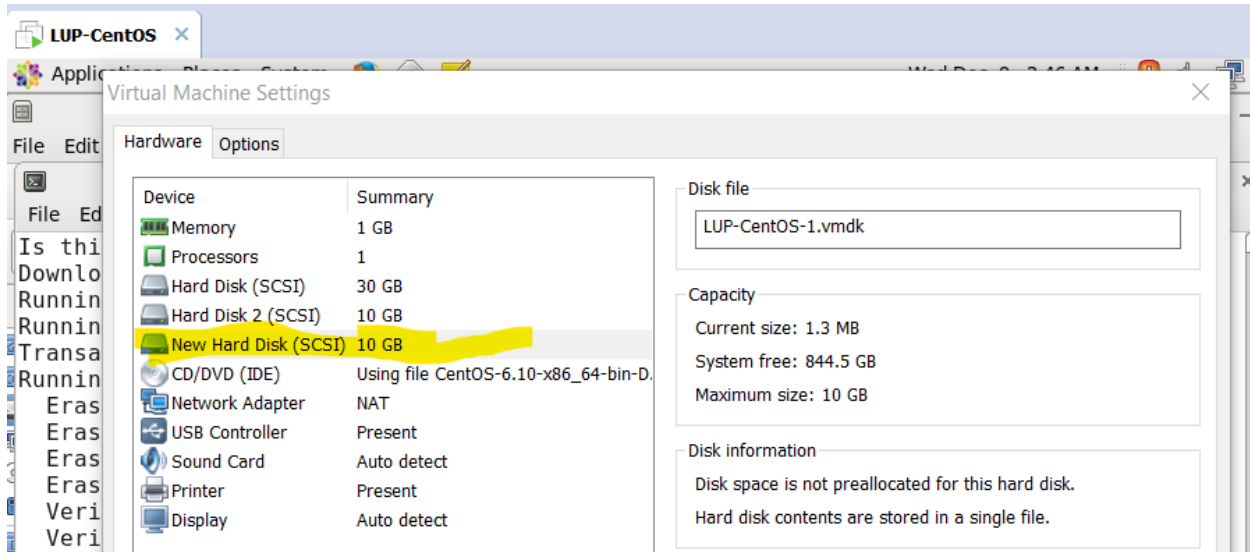


Assignment 2

1). Add a 10GB disk to the CentOS.



2). Create 2 partitions of 4GB and 6GB respectively.

```
root@nakujh: ~/Desktop
File Edit View Search Terminal Help
First cylinder (524-1305, default 524):
Using default value 524
Last cylinder, +cylinders or +size{K,M,G} (524-1305, default 1305):
Using default value 1305

Command (m for help): p

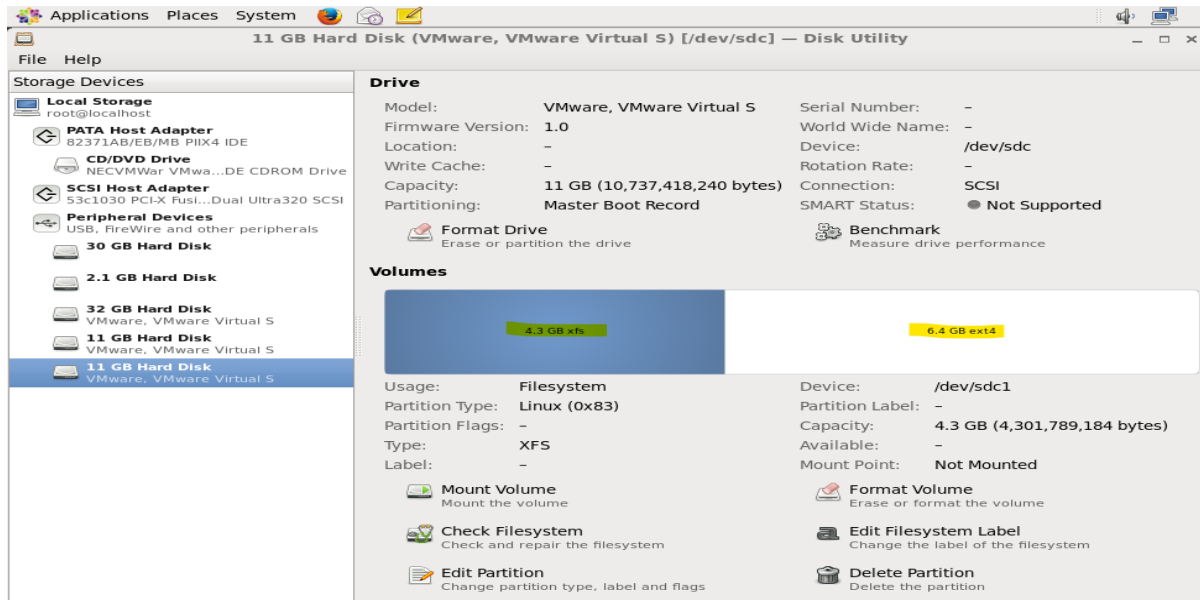
Disk /dev/sdc: 10.7 GB, 10737418240 bytes
255 heads, 63 sectors/track, 1305 cylinders
Units = cylinders of 16065 * 512 = 8225280 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk identifier: 0xad9d16aa

   Device Boot      Start         End      Blocks   Id  System
/dev/sdc1             1           523     4200966   83   Linux
/dev/sdc2          524        1305     6281415   83   Linux

Command (m for help): w
The partition table has been altered!

Calling ioctl() to re-read partition table.
Syncing disks.
[root@nakujh Desktop]#
```

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



```
327 fdisk -l
328 mkfs.xfs /dev/sdc1
329 mkfs.ext4 -j /dev/sdc2
330 mkdir /data
331 mkdir /music
332
```

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

```
root@nakujh:/dvd/Packages
File Edit View Search Terminal Help
├─sdc1          8:33  0  4G  0 part
├─sdc2          8:34  0  6G  0 part
└─sr0          11:0  1  3.7G  0 rom /media/CentOS_6.10_Final
[root@nakujh Packages]# mount /dev/sdc1 /data
[root@nakujh Packages]# mount /dev/sdc2 /music
[root@nakujh Packages]# lsblk
NAME                                MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
sda                                 8:0      0   30G  0 disk
├─sda1                             8:1      0  500M  0 part /boot
├─sda2                             8:2      0  29.5G  0 part
│   └─vg_nakujh-lv_root (dm-0) 253:0      0  27.6G  0 lvm /
│       └─vg_nakujh-lv_swap (dm-1) 253:1      0    2G  0 lvm [SWAP]
sdb                                 8:16     0   10G  0 disk
├─sdb1                             8:17     0    2G  0 part
├─sdb2                             8:18     0   2.5G  0 part /video
├─sdb3                             8:19     0    1G  0 part
├─sdb4                             8:20     0    1K  0 part
├─sdb5                             8:21     0    1G  0 part
├─sdb6                             8:22     0   3.5G  0 part
└─sdc                             8:32     0   10G  0 disk
    ├─sdc1                         8:33     0    4G  0 part /data
    └─sdc2                         8:34     0    6G  0 part /music
sr0                                11:0     1   3.7G  0 rom /media/CentOS_6.10_Final
```

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

```
root@nakujh:/music
File Edit View Search Terminal Help
[root@nakujh Desktop]# cd /
[root@nakujh /]# df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/mapper/vg_nakujh-lv_root
27G  4.1G  22G  16% /
tmpfs            498M  224K  498M   1% /dev/shm
/dev/sda1        477M   35M  417M   8% /boot
/dev/sdb2        2.6G   76M   2.5G   3% /video
/dev/sr0         3.8G   3.8G   0 100% /media/CentOS_6.10_Final
/dev/sr0         3.8G   3.8G   0 100% /dvd
/dev/sdc1        4.0G   33M   4.0G   1% /data
/dev/sdc2        5.8G   12M   5.5G   1% /music
[root@nakujh /]# cd /data
[root@nakujh data]# fallocation -l 1G Data.jpg
[root@nakujh data]# cd ../music
[root@nakujh music]# fallocation -l 1G Data.jpg
[root@nakujh music]# df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/mapper/vg_nakujh-lv_root
27G  4.1G  22G  16% /
tmpfs            498M  224K  498M   1% /dev/shm
/dev/sda1        477M   35M  417M   8% /boot
/dev/sdb2        2.6G   76M   2.5G   3% /video
/dev/sr0         3.8G   3.8G   0 100% /media/CentOS_6.10_Final
/dev/sr0         3.8G   3.8G   0 100% /dvd
/dev/sdc1        4.0G   1.1G   3.0G  26% /data
/dev/sdc2        5.8G   1.1G   4.5G  19% /music
[root@nakujh music]#
```

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

```
root@nakujh:/music
File Edit View Search Terminal Help
[root@nakujh Desktop]# cd /
[root@nakujh /]# df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/mapper/vg_nakujh-lv_root
27G  4.1G  22G  16% /
tmpfs            498M  224K  498M   1% /dev/shm
/dev/sda1        477M   35M  417M   8% /boot
/dev/sdb2        2.6G   76M   2.5G   3% /video
/dev/sr0         3.8G   3.8G   0 100% /media/CentOS_6.10_Final
/dev/sr0         3.8G   3.8G   0 100% /dvd
/dev/sdc1        4.0G   33M   4.0G   1% /data
/dev/sdc2        5.8G   12M   5.5G   1% /music
[root@nakujh /]# cd /data
[root@nakujh data]# fallocation -l 1G Data.jpg
[root@nakujh data]# cd ../music
[root@nakujh music]# fallocation -l 1G Data.jpg
[root@nakujh music]# df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/mapper/vg_nakujh-lv_root
27G  4.1G  22G  16% /
tmpfs            498M  224K  498M   1% /dev/shm
/dev/sda1        477M   35M  417M   8% /boot
/dev/sdb2        2.6G   76M   2.5G   3% /video
/dev/sr0         3.8G   3.8G   0 100% /media/CentOS_6.10_Final
/dev/sr0         3.8G   3.8G   0 100% /dvd
/dev/sdc1        4.0G   1.1G   3.0G  26% /data
/dev/sdc2        5.8G   1.1G   4.5G  19% /music
[root@nakujh music]#
```