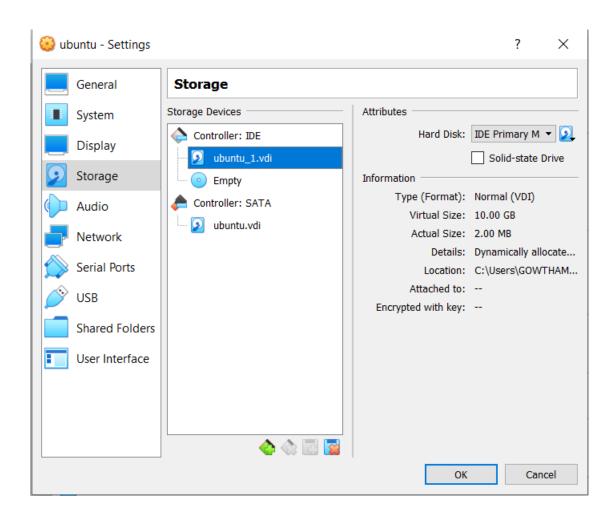
Assignment - 2 (Day 5)

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Question

1. Add a 10GB disk to the CentOS.



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

```
gowtham@raj-VirtualBox:-

File Edit View Search Terminal Help

gowthamgraj-VirtualBox:-

gowthamgraj-VirtualBox:-

success 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.

Created a new DOS disklabel with disk identifier Øxc9ef5a6B.

Command (m for help): m

Help:

DOS (MBR)

a toggle a bootable flag

b edit nested 850 disklabel

c toggle the dos compatibility flag

Generic

d delete a partition

F list free unpartitioned space

l list known partition types

n add a new partition

p print the partition table

t change a partition type

v verify the partition table

t change a partition type

v verify the partition table

t change a partition table

t print information about a partition

Misc

m print this menu

u change display/entry units

x extra functionality (experts only)

Script

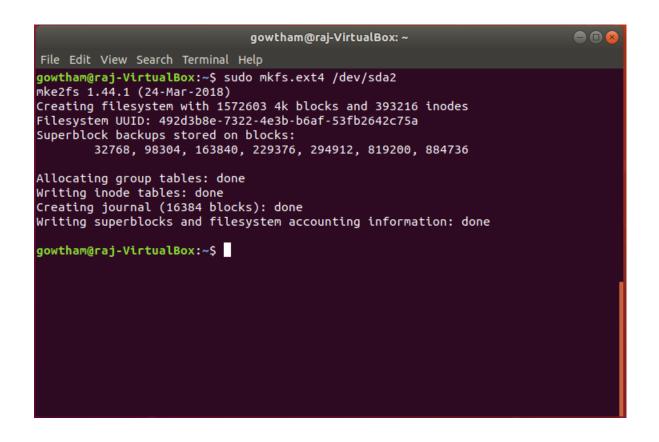
I load disk layout from sfdisk script file

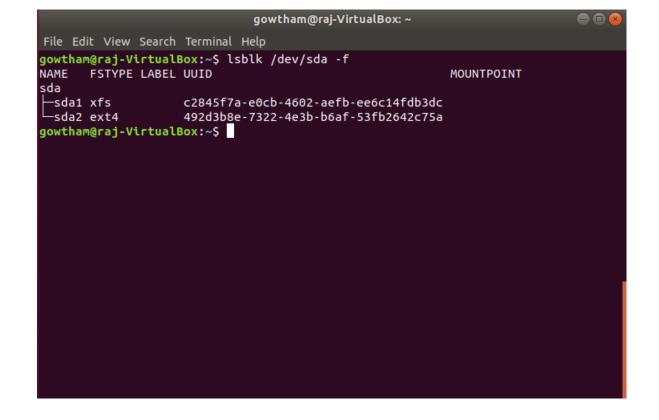
o dump disk layout from sfdisk script file
```

```
gowtham@raj-VirtualBox: ~
                                                                                - • •
File Edit View Search Terminal Help
gowtham@raj-VirtualBox:~$ sudo fdisk /dev/sda -l
Disk /dev/sda: 10 GiB, 10737418240 bytes, 20971520 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
Disklabel type: gpt
Disk identifier: EB8CD5A3-84B3-4842-9B27-4D11A99B696A
Device
              Start
                          End Sectors Size Type
              2048 8390655 8388608 4G Linux filesystem
/dev/sda1
/dev/sda2 8390656 20971486 12580831 6G Linux filesystem
gowtham@raj-VirtualBox:~$
```

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

```
gowtham@raj-VirtualBox: ~
File Edit View Search Terminal Help
gowtham@raj-VirtualBox:~$ sudo mkfs.xfs /dev/sda1
neta-data=/dev/sda1
                                 isize=512 agcount=4, agsize=262144 blks
                                 sectsz=512
                                              attr=2, projid32bit=1
                                 crc=1
                                             finobt=1, sparse=0, rmapbt=0, refl
ink=0
data
                                 bsize=4096
                                             blocks=1048576, imaxpct=25
                                             swidth=0 blks
                                 sunit=0
naning
         =version 2
                                 bsize=4096
                                             ascil-ci=0 ftype=1
Log
         -internal log
                                bsize=4096
                                             blocks=2560, version=2
                                sectsz=512
                                             sunit=0 blks, lazy-count=1
realtime =none
                                 extsz=4096
                                             blocks=0, rtextents=0
gowtham@raj-VirtualBox:-5
```





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

```
gowtham@raj-VirtualBox: ~
                                                                            File Edit View Search Terminal Help
gowtham@raj-VirtualBox:~$ sudo mkdir /data
[sudo] password for gowtham:
gowtham@raj-VirtualBox:~$ sudo mkdir /music
gowtham@raj-VirtualBox:~$ sudo mount /dev/sda1 /data
gowtham@raj-VirtualBox:~$ sudo mount /dev/sda2 /music
gowtham@raj-VirtualBox:~$ lsblk /dev/sda -f
      FSTYPE LABEL UUID
                                                         MOUNTPOINT
sda
 -sda1 xfs
                    c2845f7a-e0cb-4602-aefb-ee6c14fdb3dc /data
sda2 ext4
                    492d3b8e-7322-4e3b-b6af-53fb2642c75a /music
gowtham@raj-VirtualBox:~$
```

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

```
gowtham@raj-VirtualBox: ~
File Edit View Search Terminal Help
gowtham@raj-VirtualBox:~$ sudo dd if=/dev/zero of=/data/letsupgrade bs=4M count=
256 oflag=sync status=progress
1006632960 bytes (1.0 GB, 960 MiB) copied, 12 s, 83.8 MB/s
256+0 records in
256+0 records out
1073741824 bytes (1.1 GB, 1.0 GiB) copied, 12.8559 s, 83.5 MB/s
gowtham@raj-VirtualBox:~$ sudo dd if=/dev/zero of=/music/letsupgrade bs=4M count
=256 oflag=sync status=progress
989855744 bytes (990 MB, 944 MiB) copied, 11 s, 89.8 MB/s
256+0 records in
256+0 records out
1073741824 bytes (1.1 GB, 1.0 GiB) copied, 11.9165 s, 90.1 MB/s gowtham@raj-VirtualBox:~$ ls /data -lh
total 1.0G
-rw-r--r-- 1 root root 1.0G Dec 10 16:02 letsupgrade
gowtham@raj-VirtualBox:~$ ls /music -lh
-rw-r--r-- 1 root root 1.0G Dec 10 16:02 letsupgrade
drwx----- 2 root root 16K Dec 10 15:30 lost+found
gowtham@raj-VirtualBox:~$
```

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

```
gowtham@raj-VirtualBox: ~

File Edit View Search Terminal Help

gowtham@raj-VirtualBox: ~$ df /dev/sda1 -h

Filesystem Size Used Avail Use% Mounted on
/dev/sda1 4.0G 1.1G 3.0G 26% /data
gowtham@raj-VirtualBox: ~$ df /dev/sda2 -h

Filesystem Size Used Avail Use% Mounted on
/dev/sda2 5.9G 1.1G 4.6G 19% /music
gowtham@raj-VirtualBox: ~$

gowtham@raj-VirtualBox: ~$
```