

Assignment Day 5 | 4th December 2020

For any doubts regarding the assignment, ask questions in the [Linux](#)

[Administration 101 B1](#) Group in the Community.

Submit Assignments by 12th December 2020 11:59 PM.

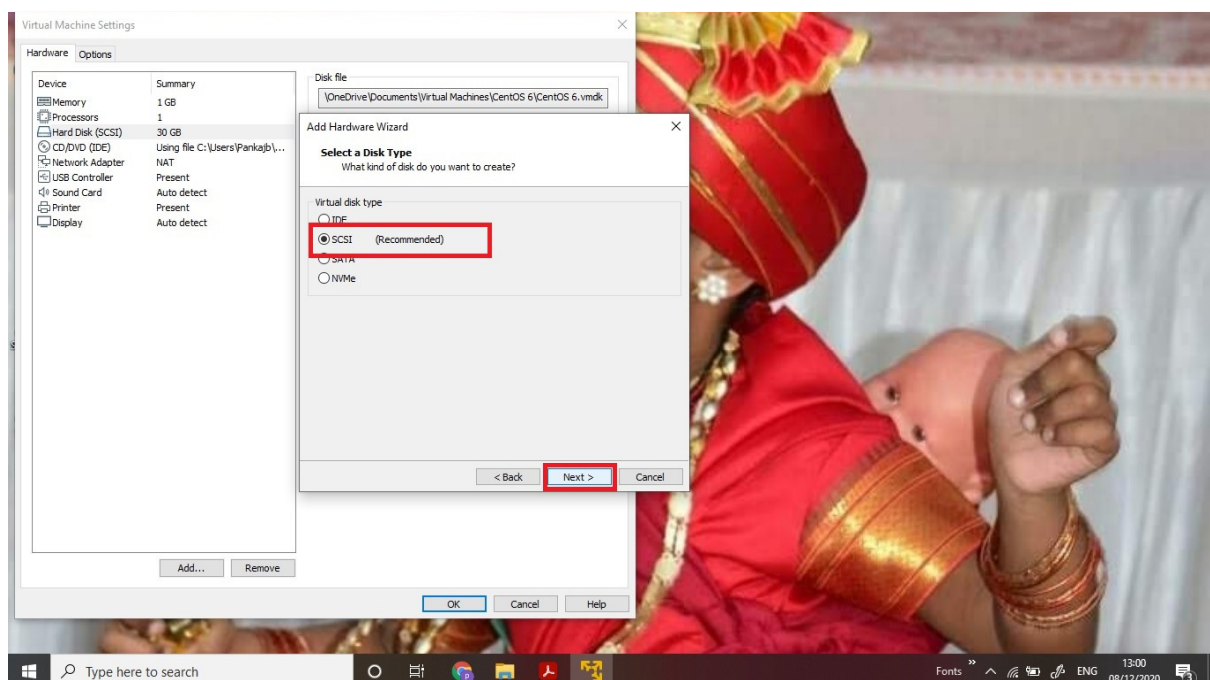
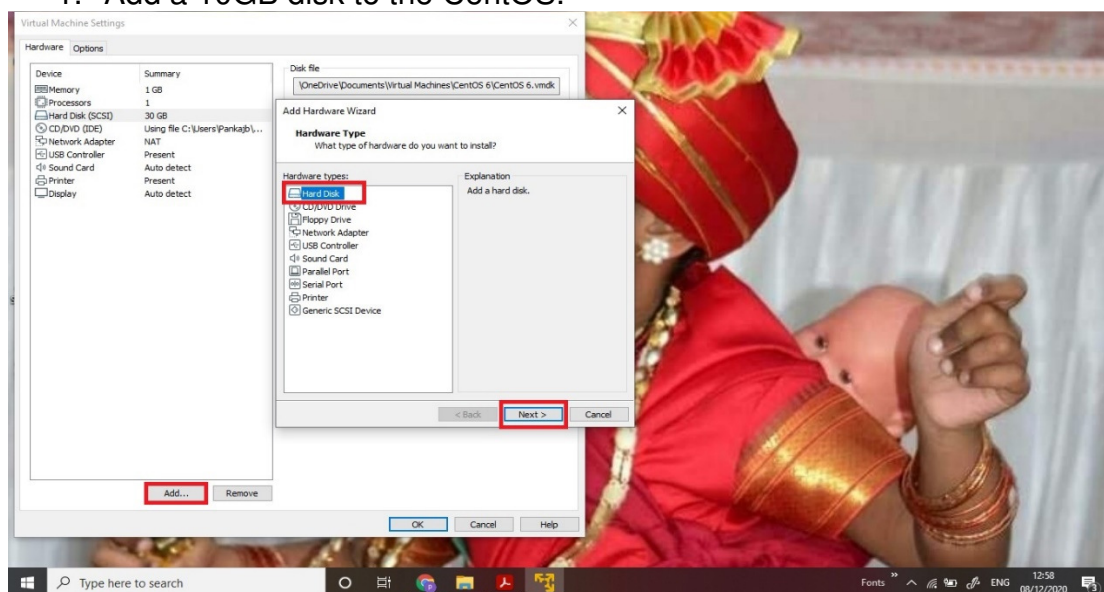
Assignment Submit Form :

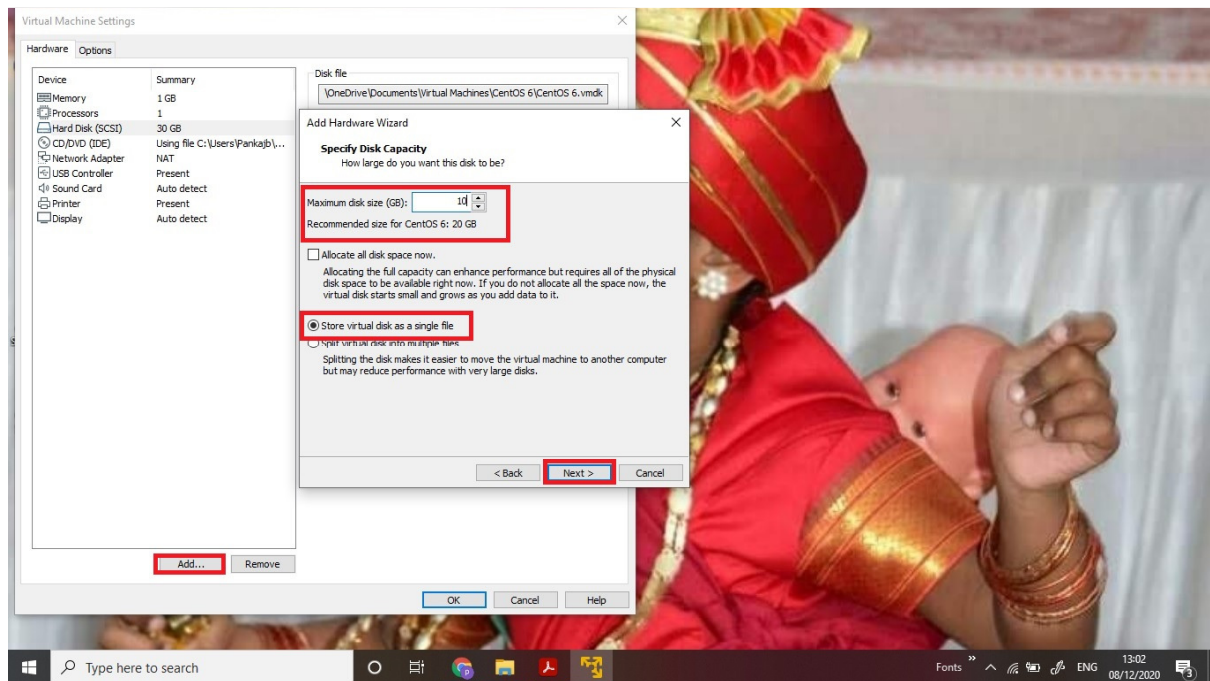
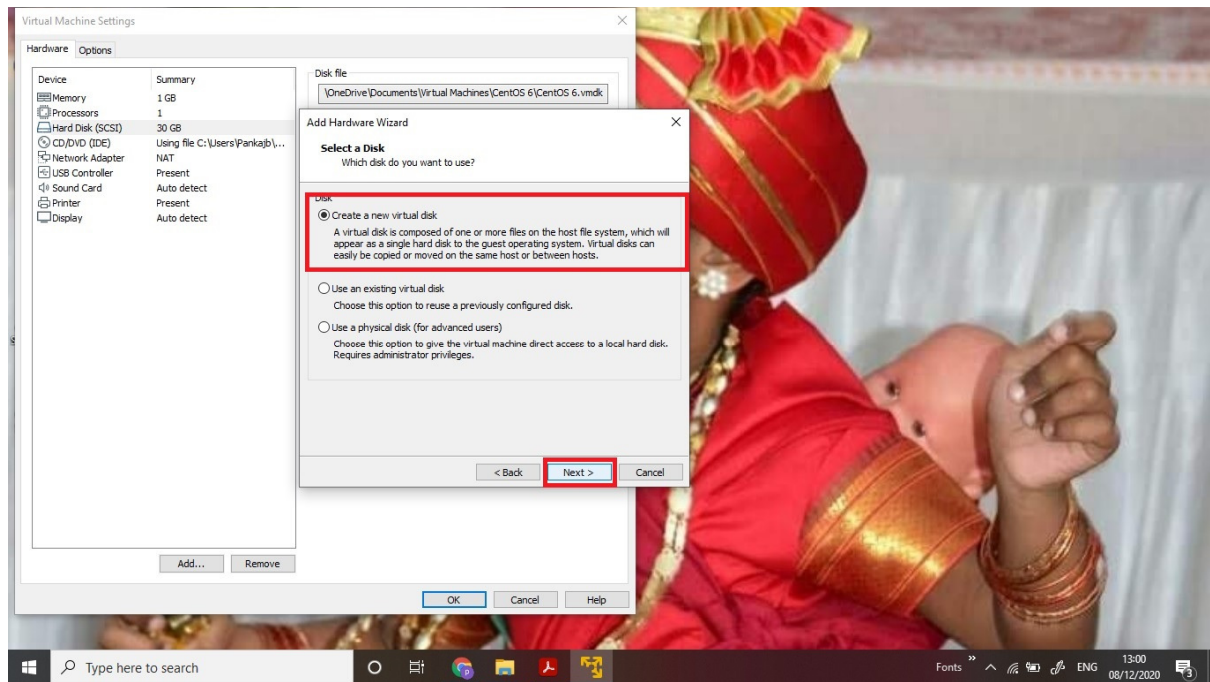
<https://forms.gle/9MNzWbdDXhhdstWEA>

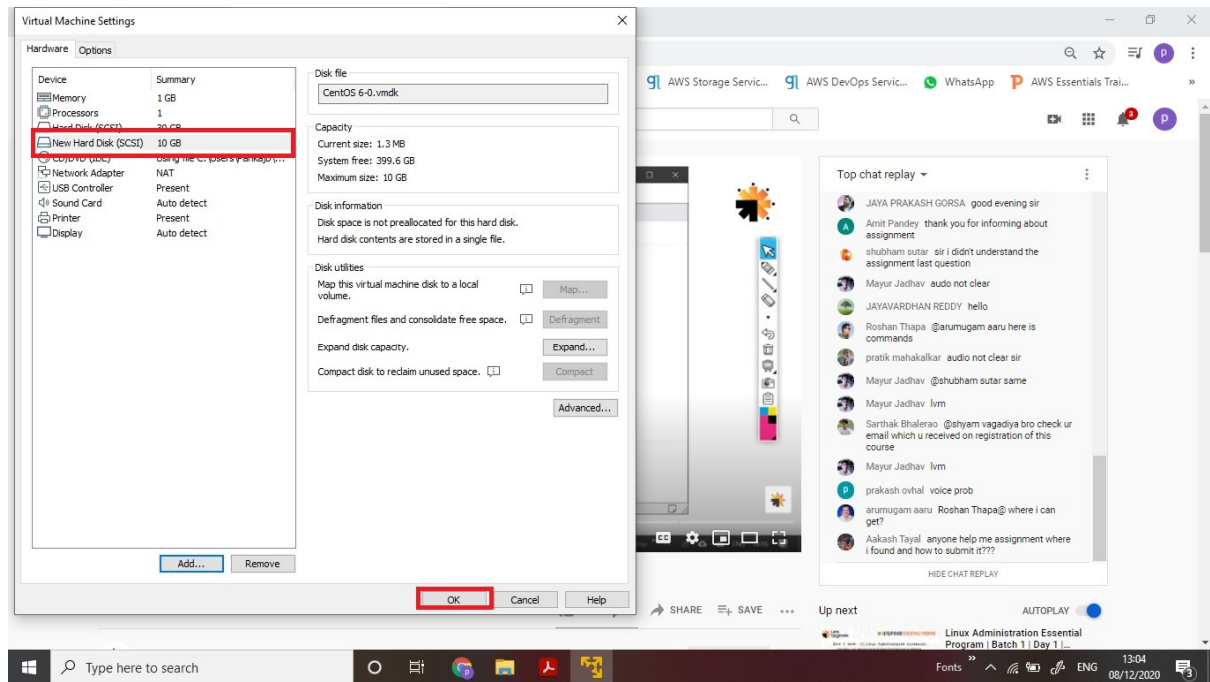
Submit assignments in Appropriate Dropdowns.

Question 1

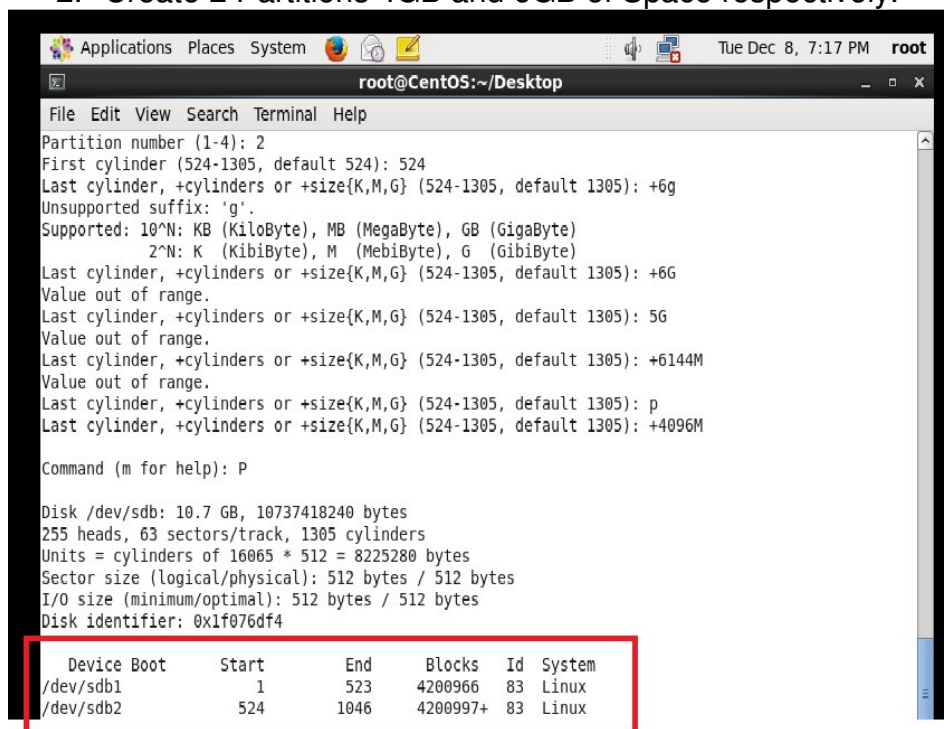
1. Add a 10GB disk to the CentOS.



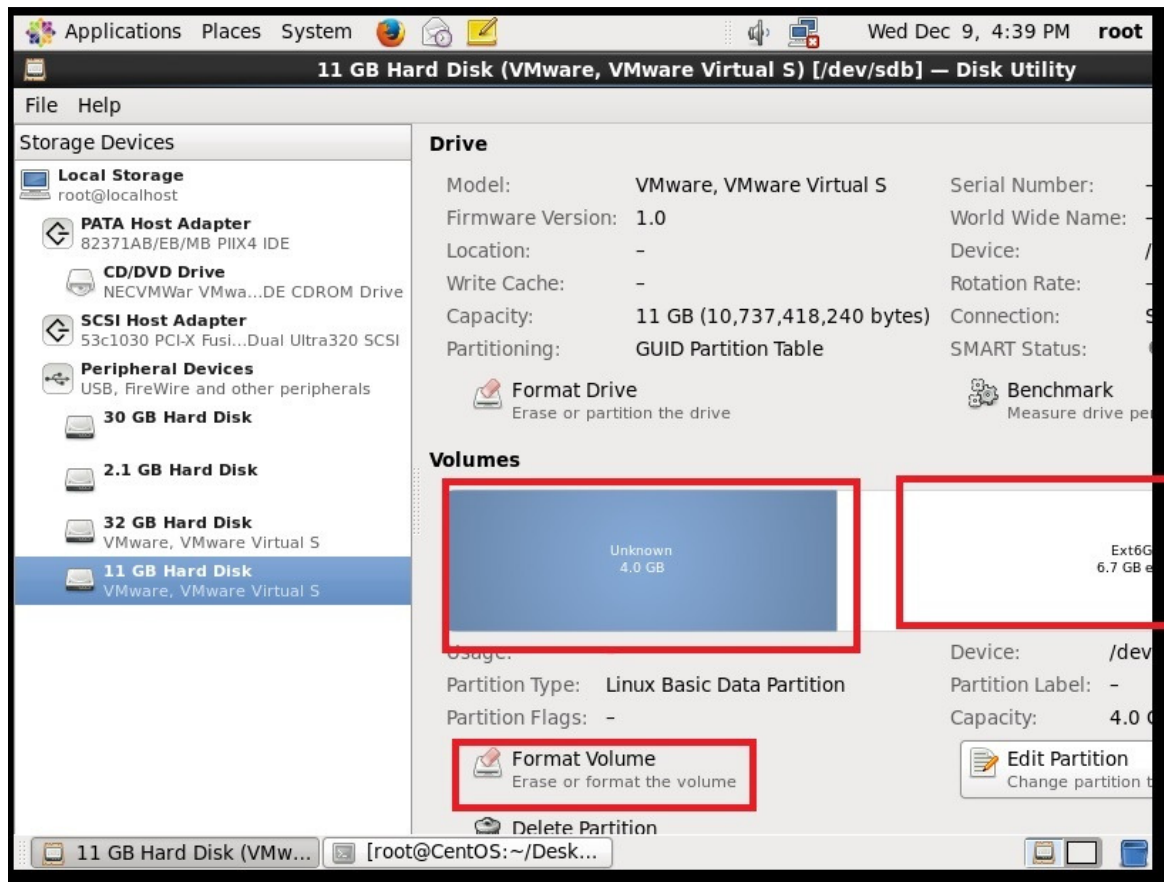




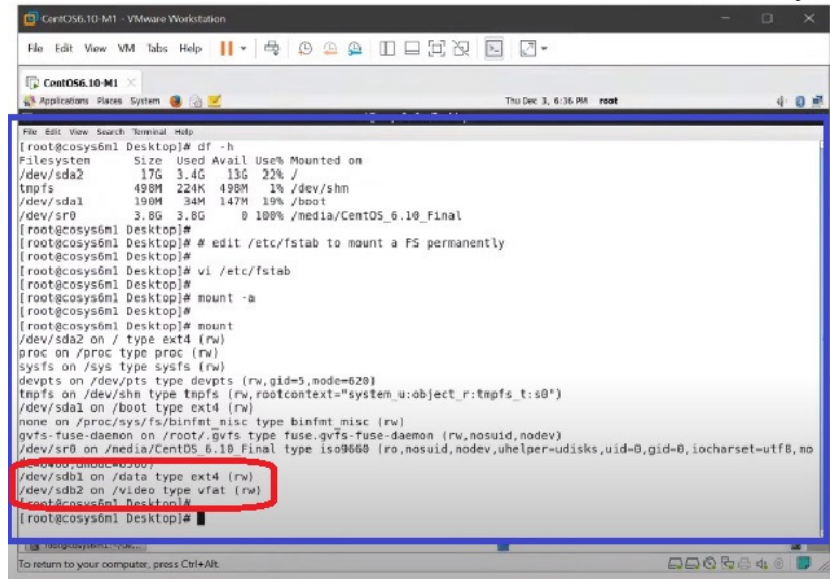
2. Create 2 Partitions 4GB and 6GB of Space respectively.



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



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



The screenshot shows a terminal window in a VMware Workstation environment. The terminal displays the output of the `df -h` command, followed by a series of commands to edit `/etc/fstab` and mount various filesystems. The `df -h` output is as follows:

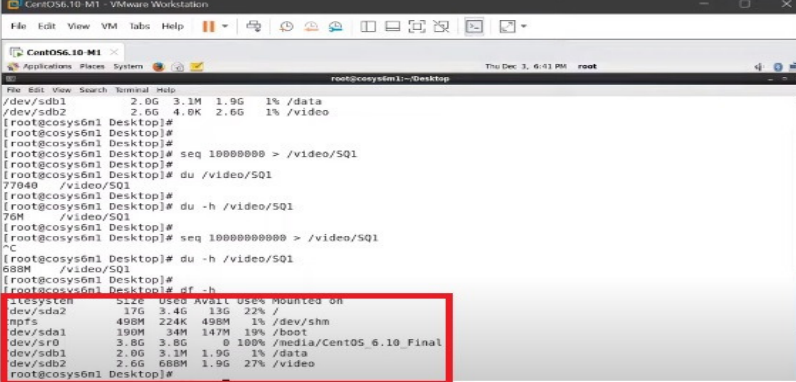
Filesystem	Size	Used	Avail	Use%	Mounted on
/dev/sda2	17G	3.4G	13G	22%	/
tmpfs	498M	224K	498M	1%	/dev/shm
/dev/sda1	190M	34M	147M	19%	/boot
/dev/sr0	3.8G	3.8G	0	100%	/media/CentOS_6.10_Final

The terminal commands and their outputs are:

```
[root@cosys6m1 Desktop]# df -h
[output as above]
[root@cosys6m1 Desktop]# # edit /etc/fstab to mount a FS permanently
[root@cosys6m1 Desktop]#
[root@cosys6m1 Desktop]# vi /etc/fstab
[root@cosys6m1 Desktop]#
[root@cosys6m1 Desktop]# mount -a
[root@cosys6m1 Desktop]#
[root@cosys6m1 Desktop]# mount
/dev/sda2 on / type ext4 (rw)
proc on /proc type proc (rw)
sysfs on /sys type sysfs (rw)
devpts on /dev/pts type devpts (rw,gid=5,mode=620)
tmpfs on /dev/shm type tmpfs (rw,rootcontext="system_u:object_f:tmpfs_t:s0")
/dev/sda1 on /boot type ext4 (rw)
none on /proc/sys/fs/binfmt_misc type binfmt_misc (rw)
gvfs-fuse-daemon on /root/.gvfs type fuse.gvfs-fuse-daemon (rw,nosuid,nodev)
/dev/sr0 on /media/CentOS_6.10_Final type iso9660 (ro,nosuid,nodev,uhelper=udisks,uid=0,gid=0,iocharset=utf8,mo
[output truncated]
/dev/sdb1 on /data type ext4 (rw)
/dev/sdb2 on /video type vfat (rw)
[root@cosys6m1 Desktop]#
```

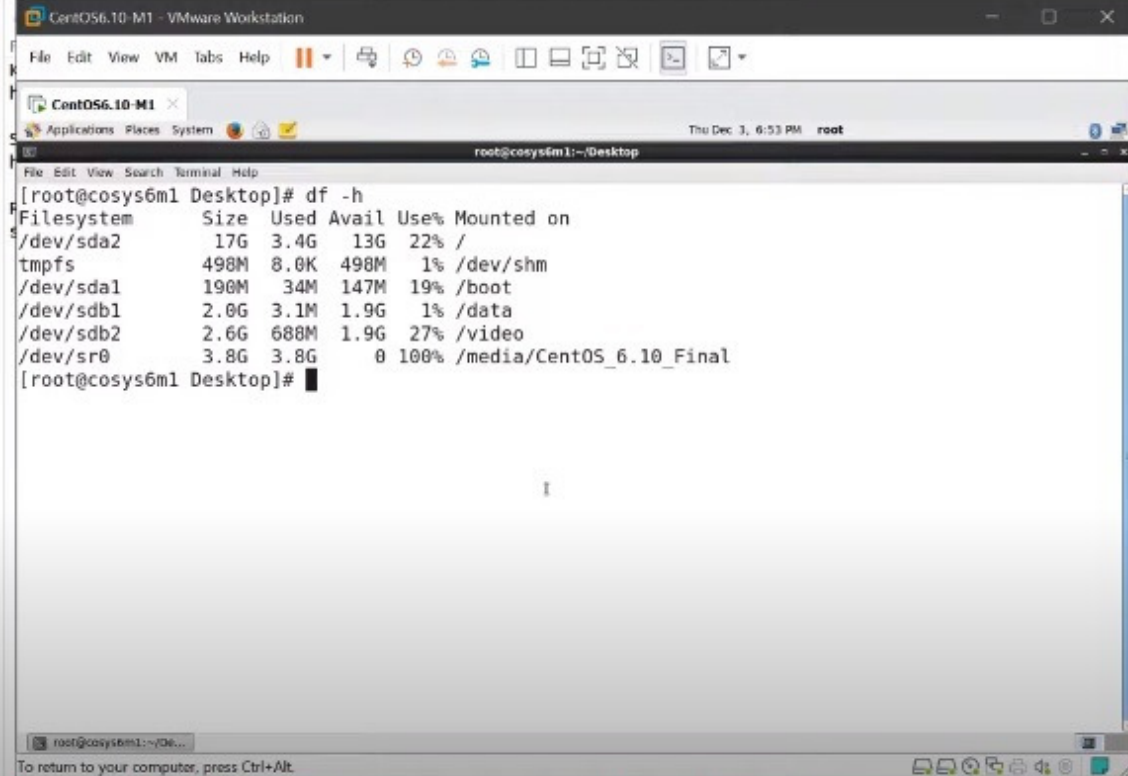
The last two lines of the `mount` command output, `/dev/sdb1 on /data type ext4 (rw)` and `/dev/sdb2 on /video type vfat (rw)`, are highlighted with a red box in the original image.

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



```
CentOS6.10-M1 - VMware Workstation
File Edit View Search Terminal Help
CentOS6.10-M1
root@cosys6m1:~/Desktop Thu Dec 3, 6:41 PM root
/dev/sdb1 2.0G 3.1M 1.9G 1% /data
/dev/sdb2 2.6G 4.8K 2.6G 1% /video
[root@cosys6m1 Desktop]#
[root@cosys6m1 Desktop]#
[root@cosys6m1 Desktop]# seq 10000000 > /video/SQ1
[root@cosys6m1 Desktop]# du /video/SQ1
77940 /video/SQ1
[root@cosys6m1 Desktop]# du -h /video/SQ1
76M /video/SQ1
[root@cosys6m1 Desktop]# seq 1000000000 > /video/SQ1
^C
[root@cosys6m1 Desktop]# du -h /video/SQ1
688M /video/SQ1
[root@cosys6m1 Desktop]#
[root@cosys6m1 Desktop]# df -h
Filesystem      Size  Used Avail Use% Mounted on
dev/sda2        17G   3.4G  13G  22% /
tmpfs           498M  224K  498M   1% /dev/shm
dev/sda1        190M   34M  147M  19% /boot
dev/sr0         3.8G   3.8G   0 100% /media/CentOS_6.10_Final
dev/sdb1        2.0G   3.1M   1.9G   1% /data
dev/sdb2        2.6G  688M   1.9G  27% /video
root@cosys6m1 Desktop]#
```

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



```
CentOS6.10-M1 - VMware Workstation
File Edit View VM Tabs Help
CentOS6.10-M1
root@cosys6m1:~/Desktop Thu Dec 3, 6:53 PM root
root@cosys6m1:~/Desktop
File Edit View Search Terminal Help
[root@cosys6m1 Desktop]# df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/sda2        17G   3.4G  13G  22% /
tmpfs           498M  8.0K  498M   1% /dev/shm
/dev/sda1        190M   34M  147M  19% /boot
/dev/sdb1        2.0G   3.1M   1.9G   1% /data
/dev/sdb2        2.6G  688M   1.9G  27% /video
/dev/sr0         3.8G   3.8G   0 100% /media/CentOS_6.10_Final
[root@cosys6m1 Desktop]#
```