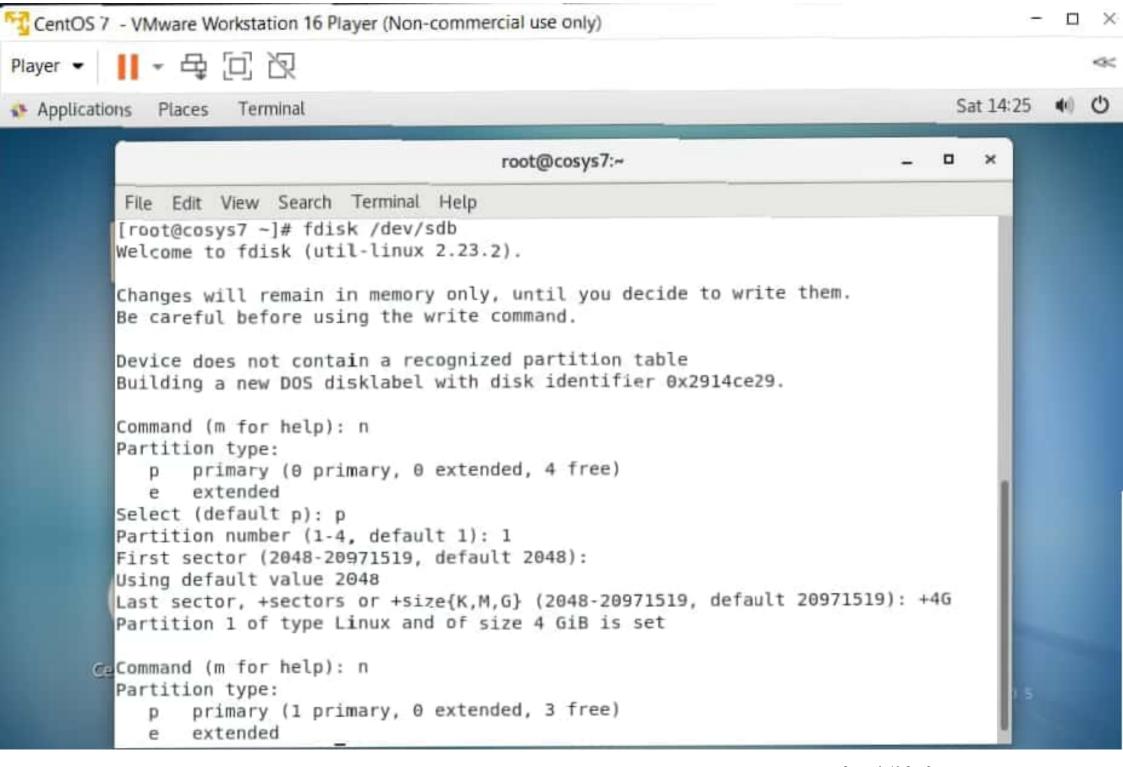
## LINUX ASSIGNMENT DAY 5 LU

## Question 1

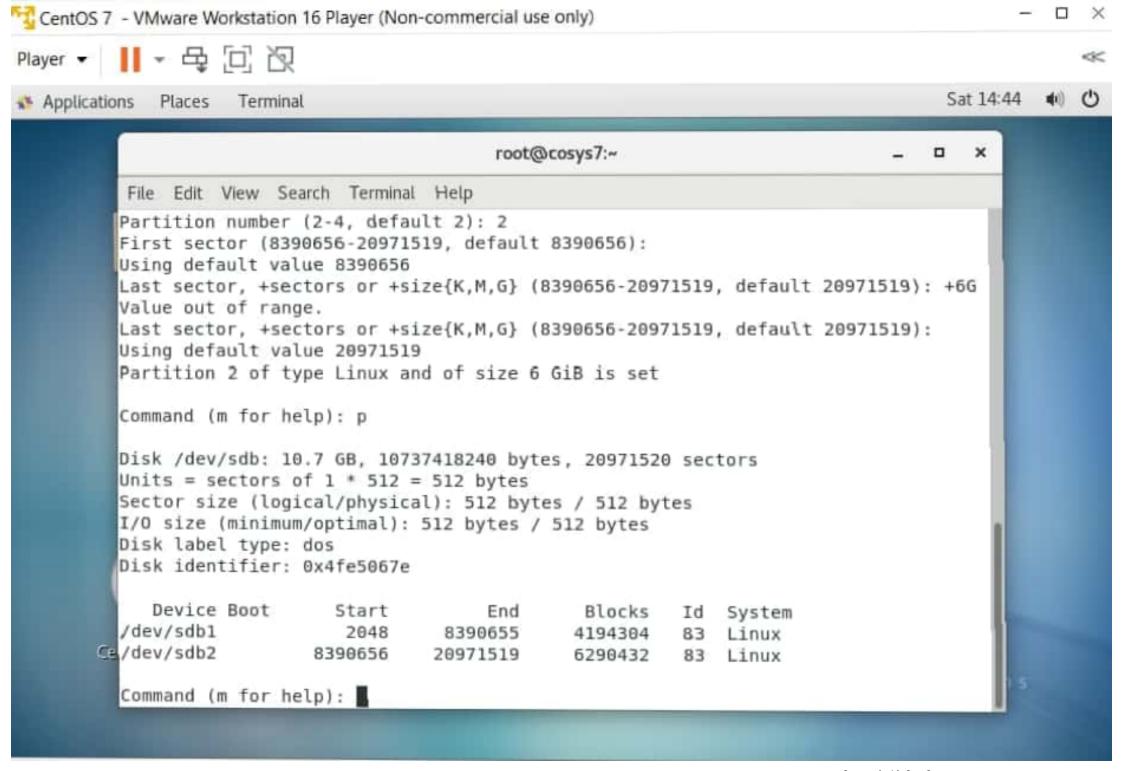
- 1. Add a 10GB disk to the CentOS.
- 2. Create 2 Partitions 4GB and 6GB of Space respectively.
- 3. Format 4GB with xfs and 6GB with ext4 file system.
- 4. Mount 4GB and 6GB in /data and /music directory respectively.
- 5. Create one file of 1GB in each of the mount point created above.
- Verify the disk Consumption and disk space free in the mounted partitions.



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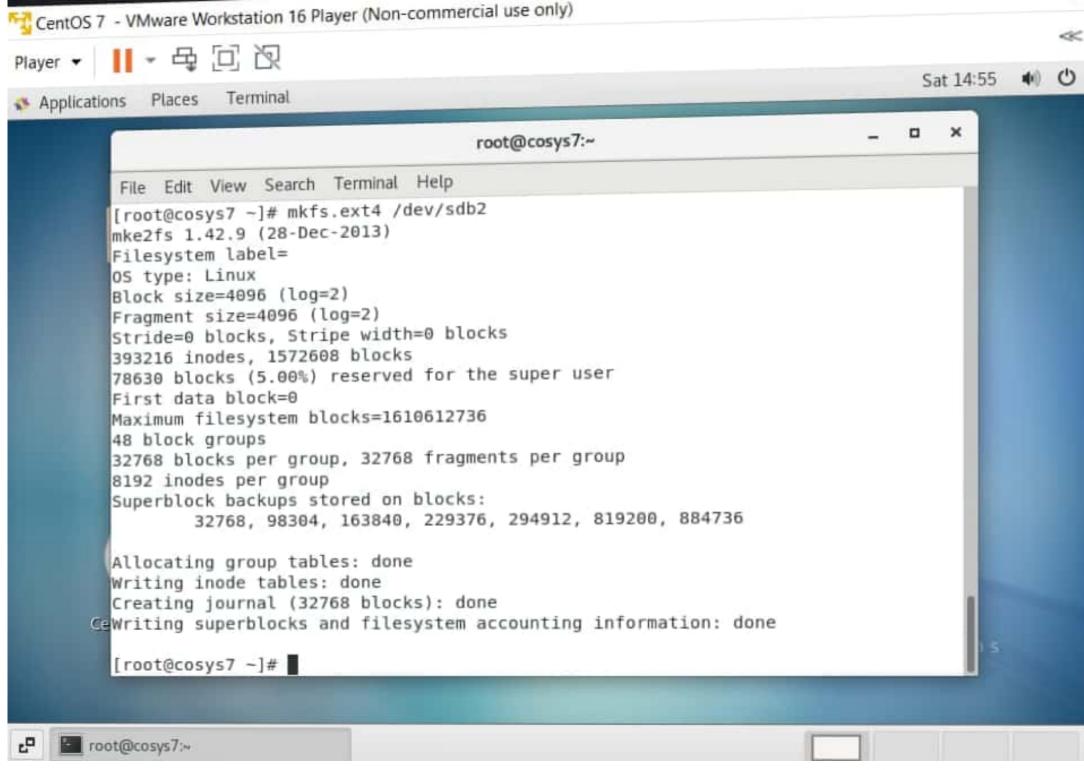
Sat 14: Applications Places Terminal root@cosys7:~ × File Edit View Search Terminal Help primary (0 primary, 0 extended, 4 free) extended Select (default p): p Partition number (1-4, default 1): 1 First sector (2048-20971519, default 2048): Using default value 2048 Last sector, +sectors or +size{K,M,G} (2048-20971519, default 20971519): +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 (8390656-20971519, default 8390656): Using default value 8390656

Last sector, +sectors or +size{K,M,G} (8390656-20971519, default 20971519): +6G Value out of range. Last sector, +sectors or +size{K,M,G} (8390656-20971519, default 20971519): Using default value 20971519 Partition 2 of type Linux and of size 6 GiB is set Command (m for help):





Sat 14:5 Applications Places Terminal root@cosys7:~ × File Edit View Search Terminal Help [root@cosys7 ~]# mkfs.xfs /dev/sdb1 agcount=4, agsize=262144 blks meta-data=/dev/sdb1 isize=512 attr=2, projid32bit=1 sectsz=512 crc=1 finobt=0, sparse=0 blocks=1048576, imaxpct=25 bsize=4096 data sunit=0 swidth=0 blks ascii-ci=0 ftype=1 naming =version 2 bsize=4096 blocks=2560, version=2 =internal log bsize=4096 loa sectsz=512 sunit=0 blks, lazy-count=1 blocks=0, rtextents=0 realtime =none extsz=4096 [root@cosys7 -]# [root@cosys7 ~]# mkfs.ext4 /dev/sdb2 mke2fs 1.42.9 (28-Dec-2013) Filesystem label= OS type: Linux Block size=4096 (log=2) Fragment size=4096 (log=2) Stride=0 blocks, Stripe width=0 blocks 393216 inodes, 1572608 blocks 78630 blocks (5.00%) reserved for the super user First data block=0 Maximum filesystem blocks=1610612736



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Applications Sat 15:0 Places Terminal root@cosys7:~ × Edit View Search Terminal Help File [root@cosys7 ~]# [root@cosys7 ~]# #mount the disk [root@cosys7 ~]# [root@cosys7 -]# mkdir /data [root@cosys7 ~]# [root@cosys7 ~]# mkdir /music [root@cosys7 ~]# [root@cosys7 ~]# mount /dev/sdb1 /data [root@cosys7 ~]# [root@cosys7 -]# df -h Filesystem Size Used Avail Use% Mounted on devtmpfs 470M 470M 0 0% /dev tmpfs 487M 0% /dev/shm 0 487M tmpfs 487M 8.6M 478M 2% /run tmpfs 487M 0 487M 0% /sys/fs/cgroup /dev/mapper/centos-root 17G 3.9G 146 23% / /dev/sdal 1014M 172M 843M 17% /boot tmpfs 98M 24K 98M 1% /run/user/0 /dev/sr0 4.4G 4.4G 0 100% /run/media/root/CentOS 7 x86 64 @/dev/sdb1 4.0G 33M 4.0G 1% /data [root@cosys7 ~]# [root@cosys7 -]#

4.0G

5.8G

@=/dev/sdb2

[root@cosys7 ~]# [root@cosys7 ~]# 33M

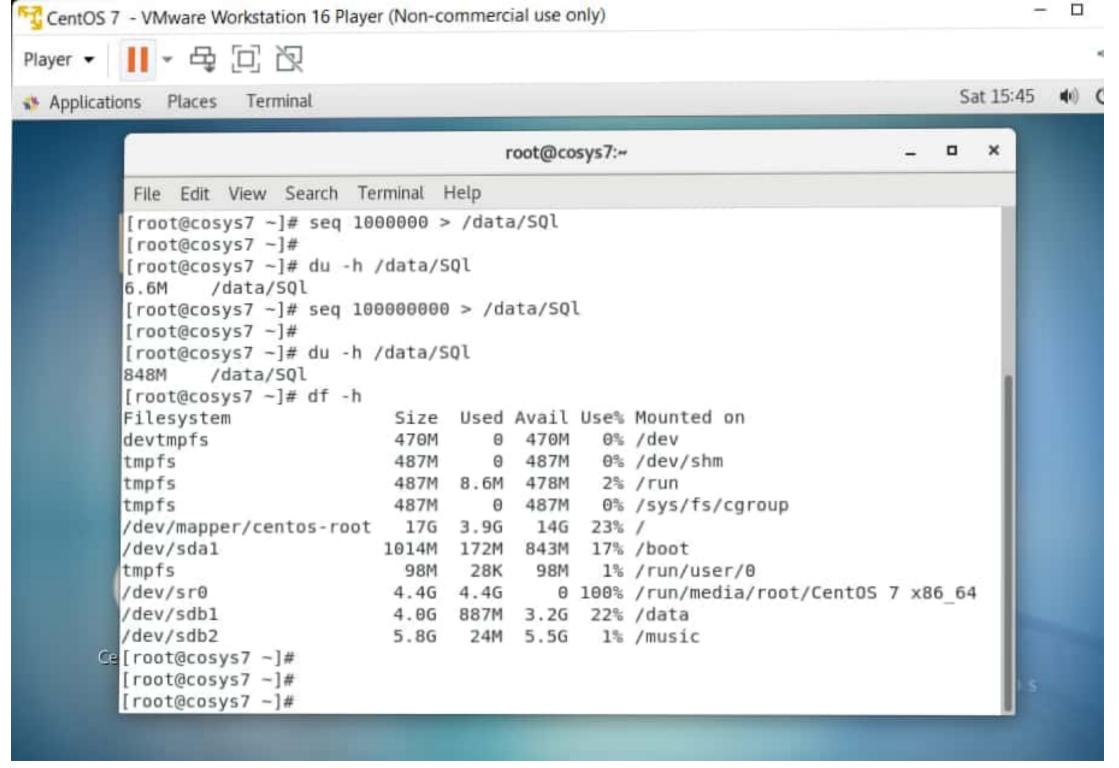
24M

4.0G

5.5G

1% /data

1% /music



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[root@cosys7 ~]# [root@cosys7 ~]# [root@cosys7 ~]# [root@cosys7 ~]# [root@cosys7 ~]#

Applications Places Terminal. Sat 15:4 root@cosys7:~ × Edit View Search Terminal Help File [root@cosys7 ~]# seq 100000000 > /music/SQl [root@cosys7 ~]# [root@cosys7 ~]# du -h /music/SQl 848M /music/SOl [root@cosys7 ~]# [root@cosys7 ~]# df -h Filesystem Size Used Avail Use% Mounted on devtmpfs 470M 470M 0% /dev tmpfs 487M 487M 0% /dev/shm tmpfs 487M 478M 8.6M 2% /run tmpfs 487M 487M 0% /sys/fs/cgroup 0 /dev/mapper/centos-root 17G 3.9G 14G 23% / /dev/sdal 1014M 172M 843M 17% /boot tmpfs 98M 28K 98M 1% /run/user/0 /dev/sr0 0 100% /run/media/root/CentOS 7 x86 64 4.4G 4.4G /dev/sdb1 4.0G 887M 3.2G 22% /data /dev/sdb2 872M 4.7G 16% /music 5.8G [root@cosys7 ~]#