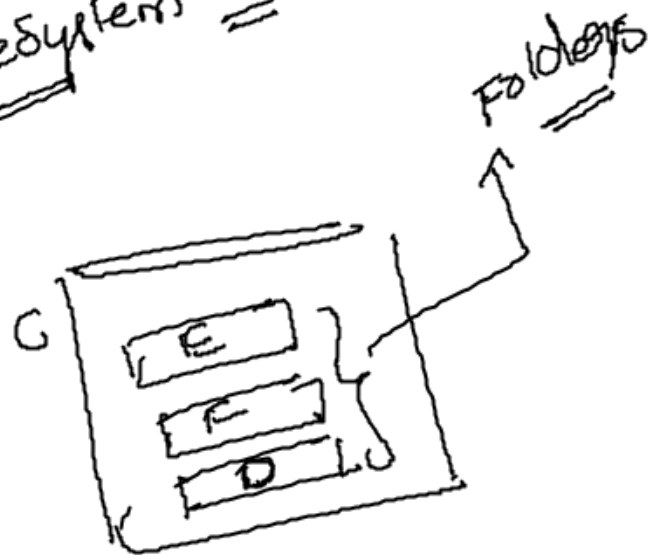
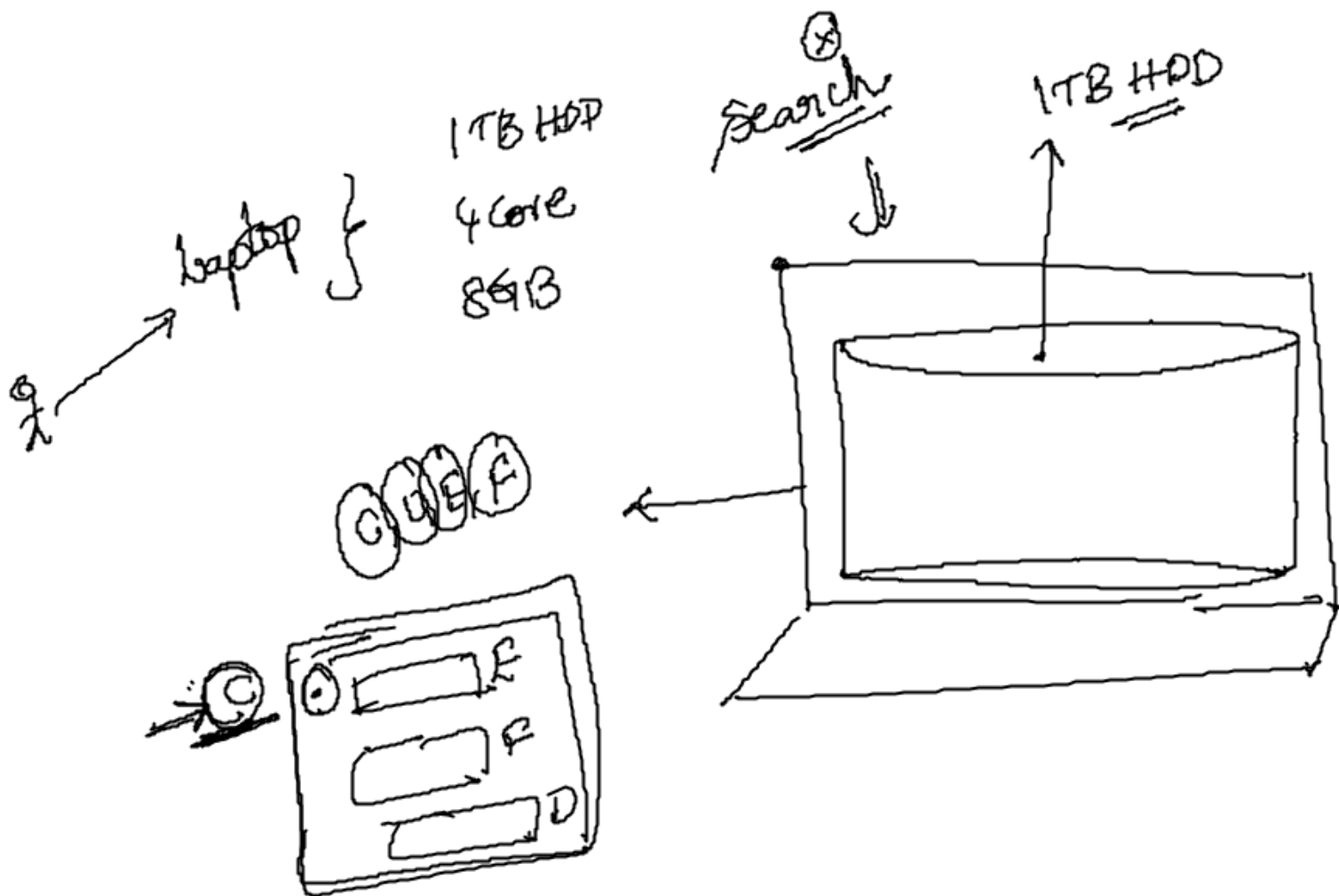


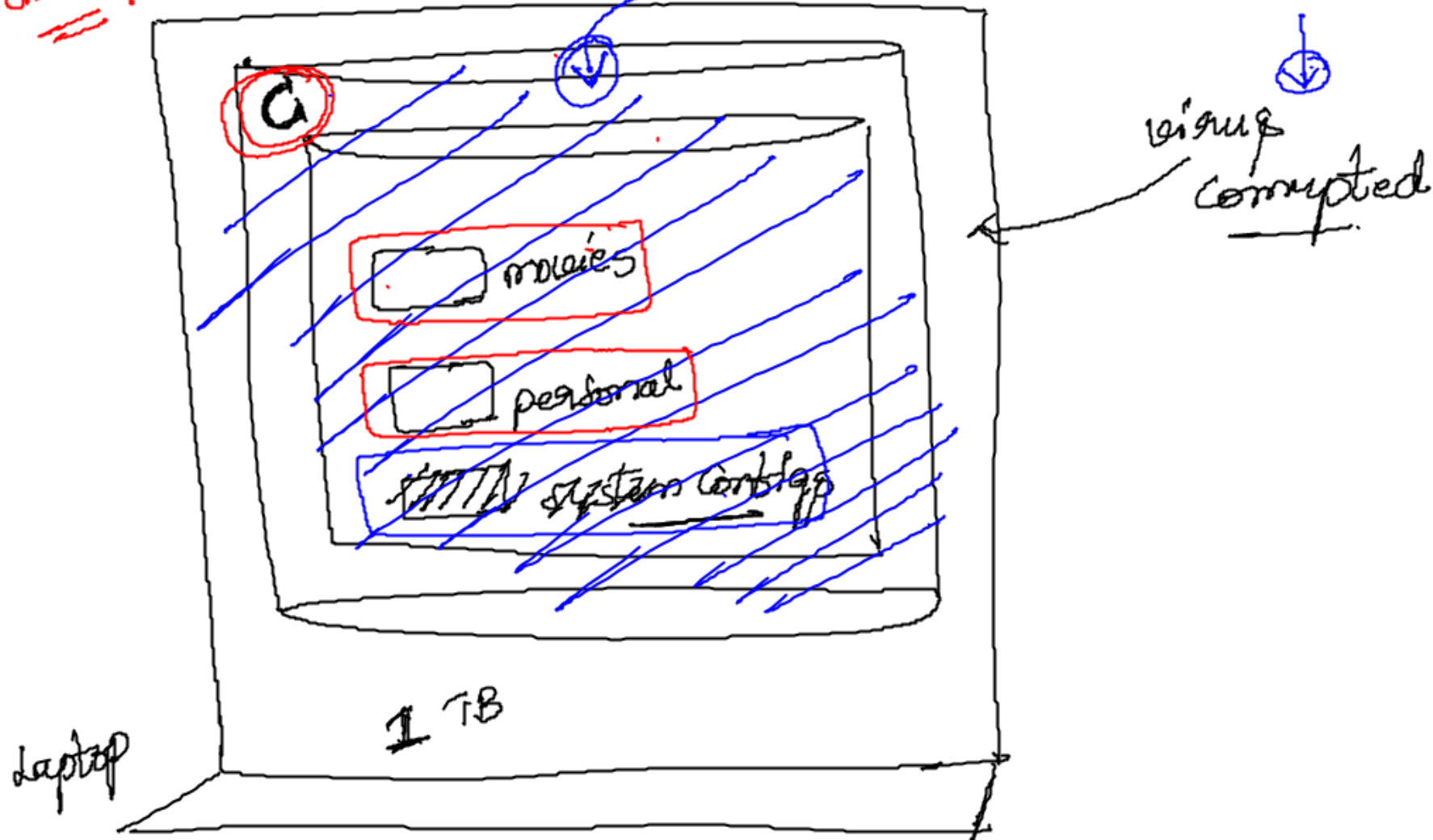
Linux ↓
fileSystem ?? stores data





drivers

reinstall OS



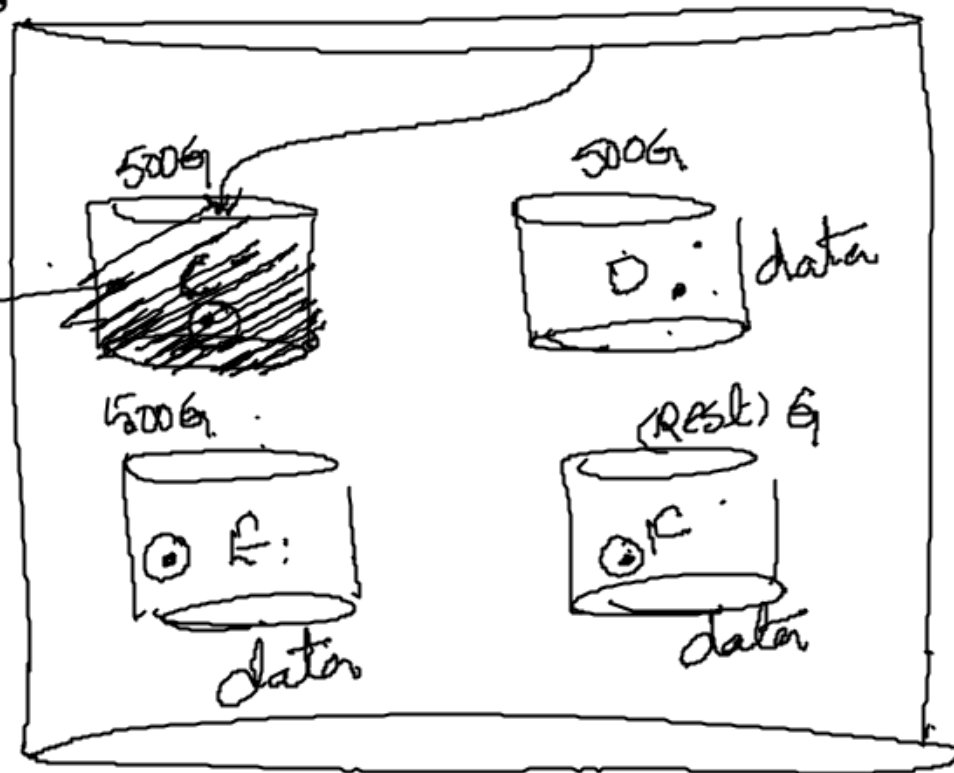
virus
corrupted


reinstall os

drive (windows) & B HDD

partition

(Linux)



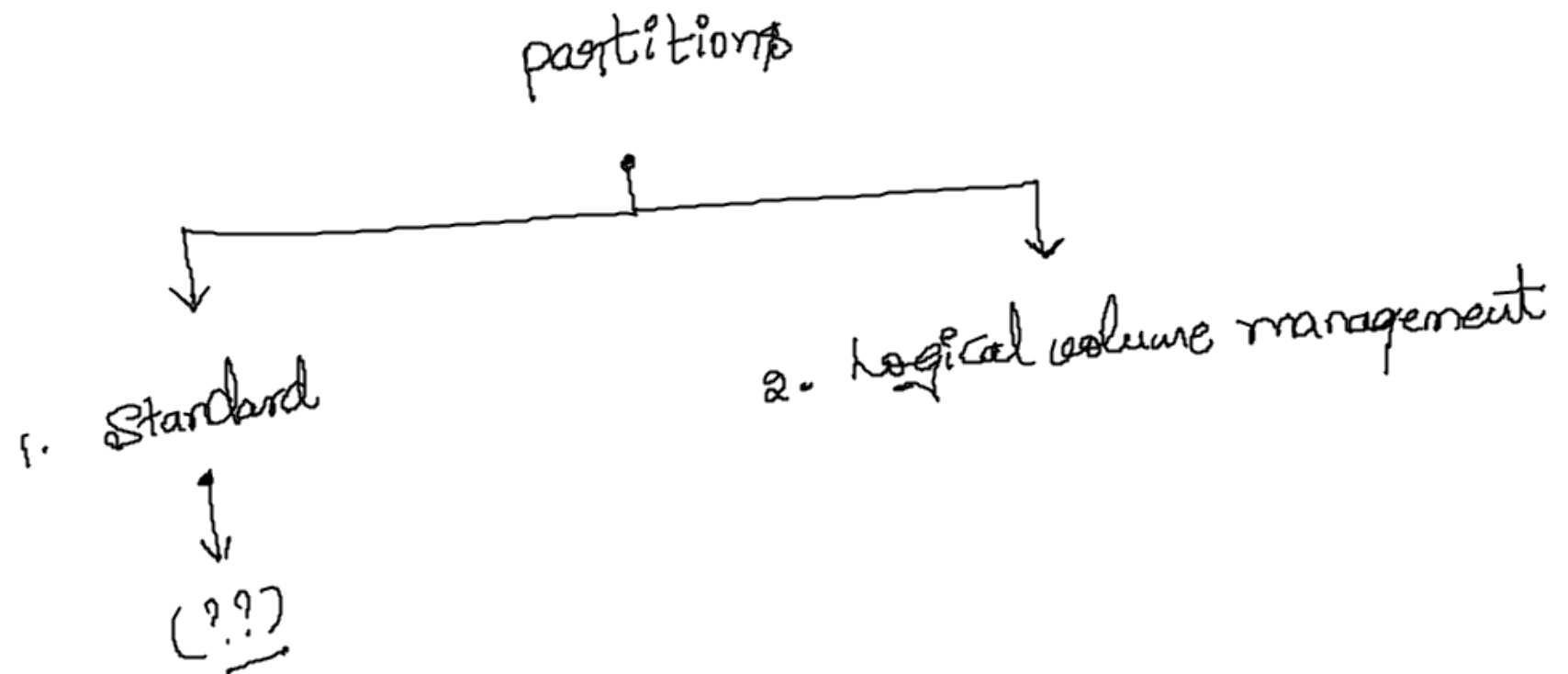
Linux partition 

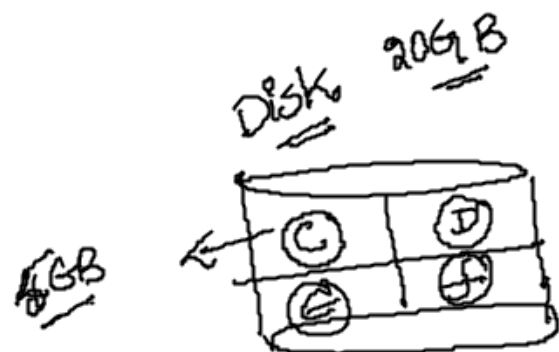
windows → use pendrive → format → (type)

NTFS
FAT32
FAT64

Linux → FS types

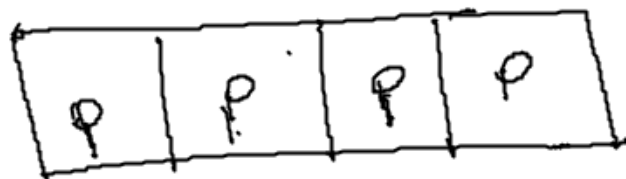
1. ext2 Chrooted that (Curlaps - 5)
2. ext3 (" 6)
3. ext4 (" 6 & 7)
4. xfs (7, 7)





Max no. of P
④

P P P E E



Standard partition

primary partition
extended partition
logical partition

Max. no. of P.P = ④

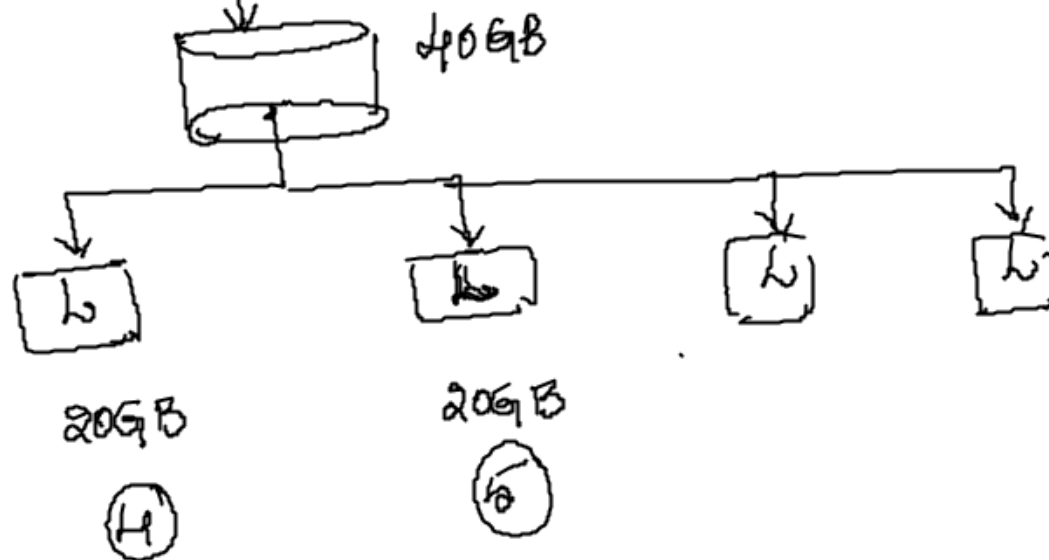
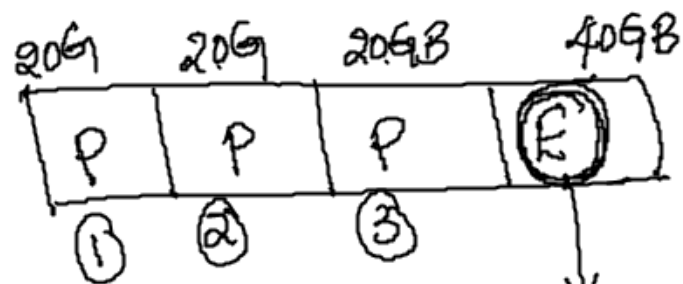
5 partitions * 20GB = 100GB

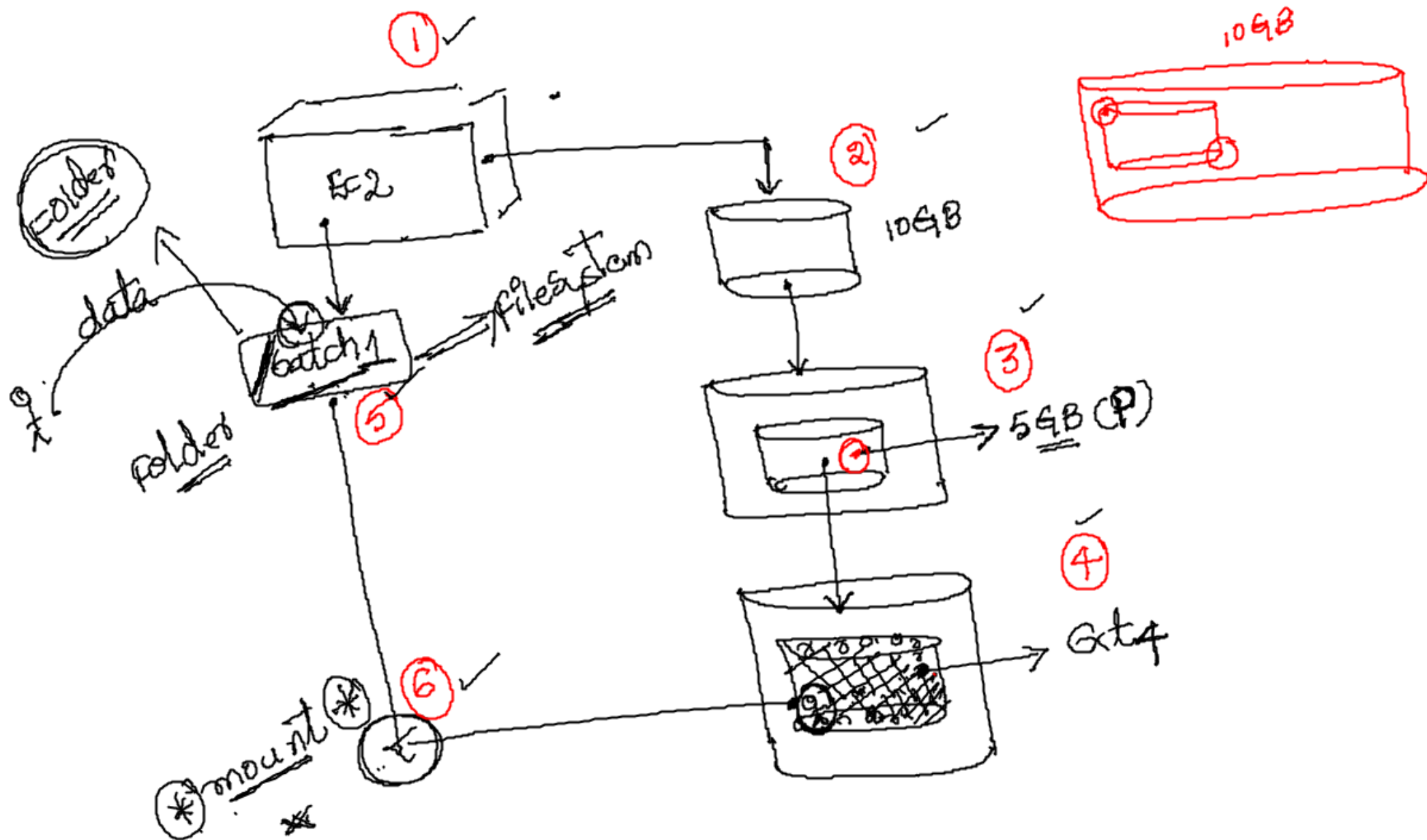
“??”



5 partition * 20GB = 100GB

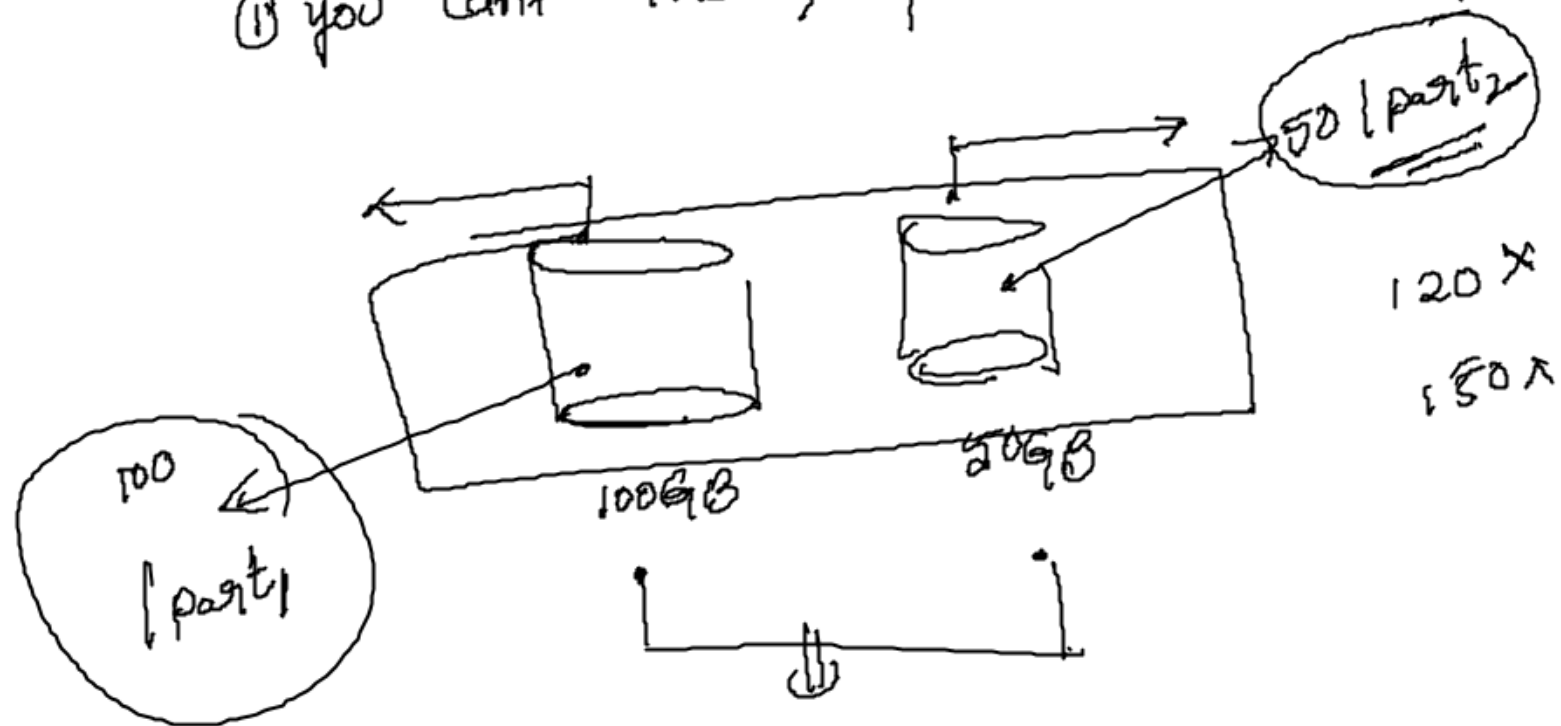
Cond. = Max no of partitions (4)





↓
drawbacks

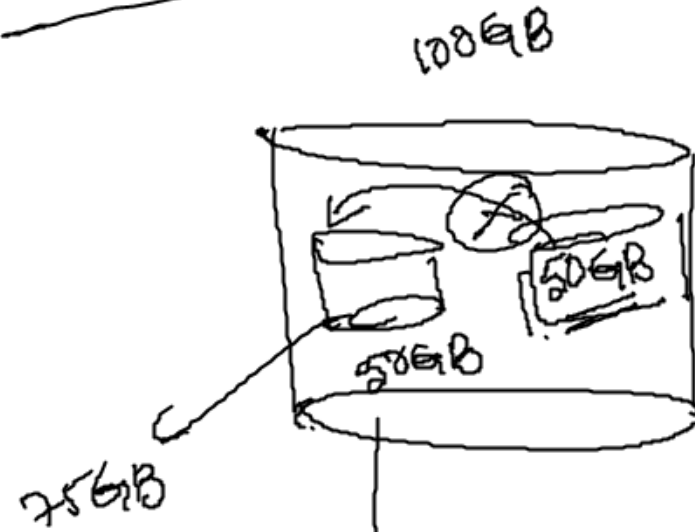
① you can't increase partition size dynamically



max. ^ 15" | partition I can
create ??

note: 

DONOT USE STANDARD PARTITIONS



take backup

delete partition

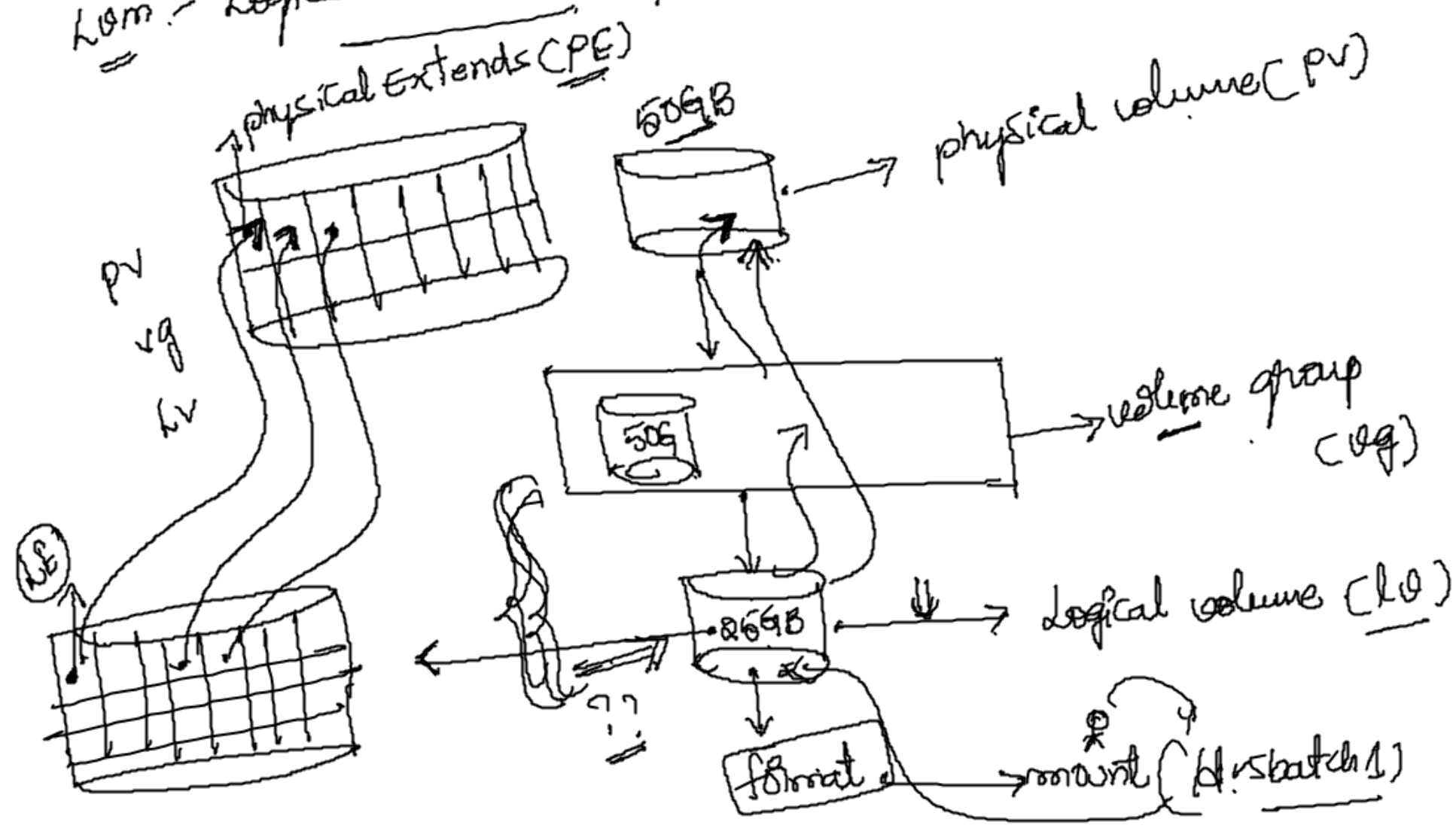
recreate 75GB

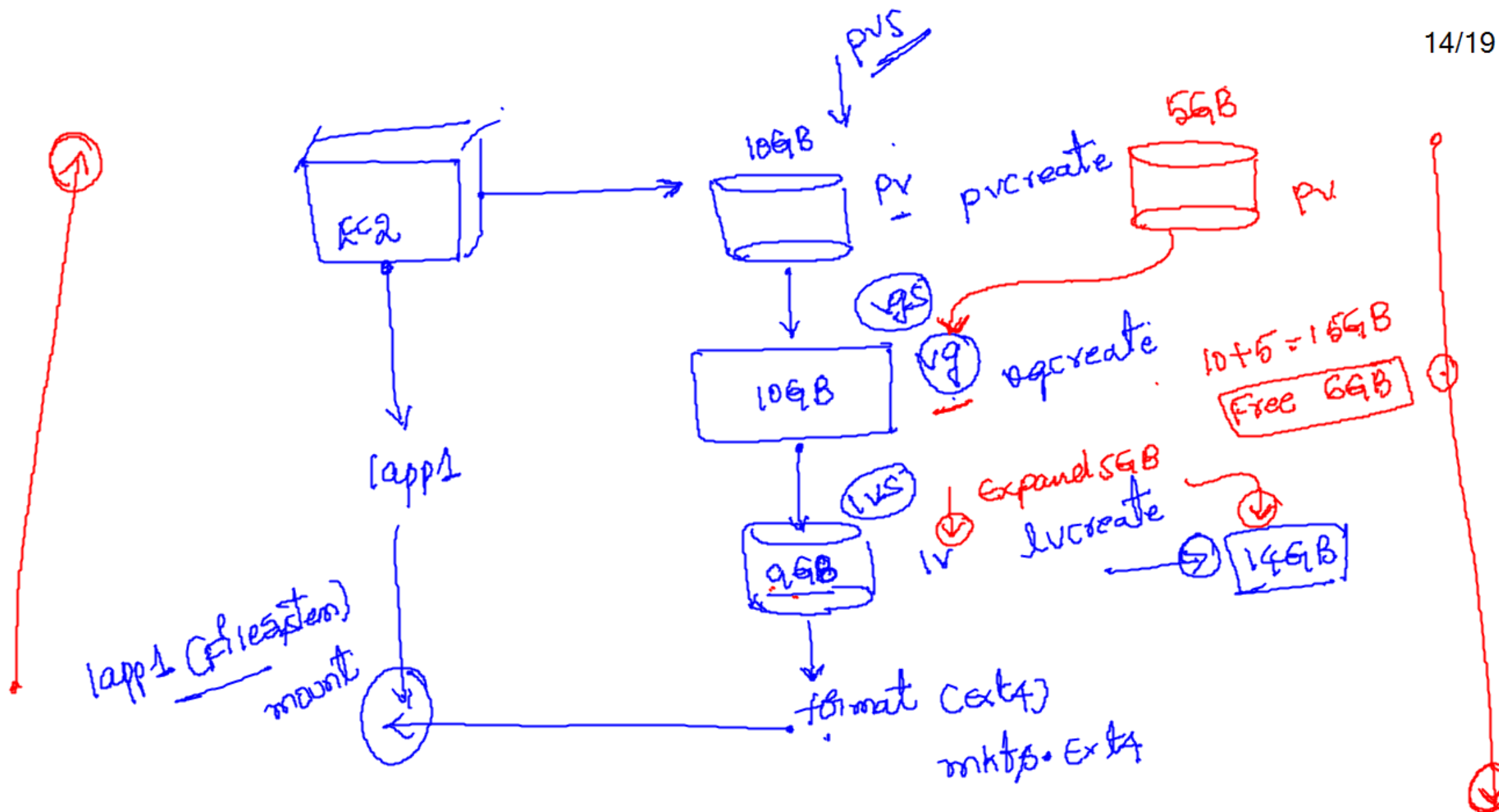
copy data 50GB back

downtime



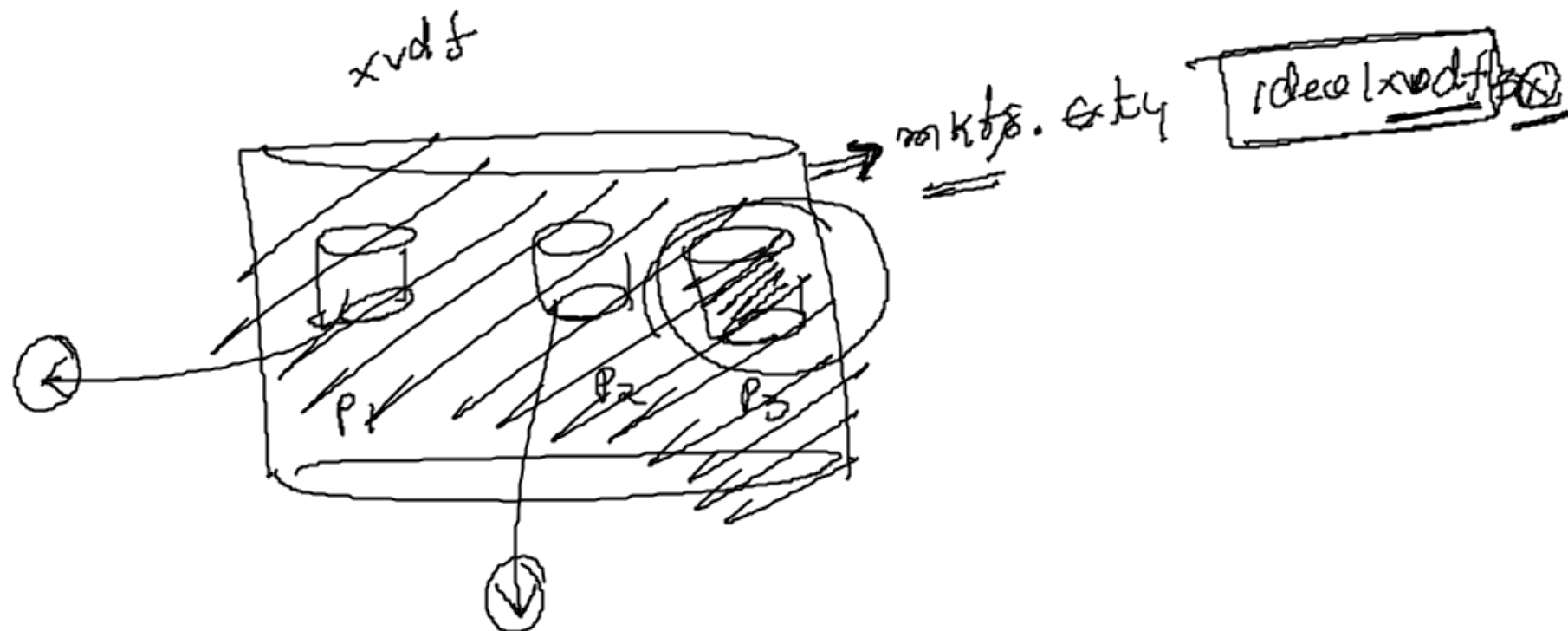
Lvm:- Logical Volume Management





```
# systemctl enable serviceName  
lsblk  
blkid  
pvcreate /dev/xvdg  
pvs  
vgcreate myvg /dev/sdg  
vgs  
lvcreate -L +10G -n mylv myvg  
lvcreate -L +9G -n mylv myvg  
lvs  
mkfs.ext4 /dev/myvg/mylv  
mkdir /app1  
mount -t ext4 /dev/myvg/mylv /app1  
df -hT /app1  
history
```

```
/dev/mapper/myvg-mylv ext4 14G 41M 13G 1% /app1
[root@linuxserver ~]# cd
[root@linuxserver ~]# umount /app1/
[root@linuxserver ~]# lvremove /dev/myvg/mylv
Do you really want to remove active logical volume myvg/mylv? [y/n]: y
Logical volume "mylv" successfully removed
[root@linuxserver ~]# vgremove myvg
Volume group "myvg" successfully removed
[root@linuxserver ~]# pvremove /dev/sdg /dev/sdh
Labels on physical volume "/dev/sdg" successfully wiped.
Labels on physical volume "/dev/sdh" successfully wiped.
[root@linuxserver ~]# pvs
[root@linuxserver ~]# vgs
[root@linuxserver ~]# lvgs
-bash: lvgs: command not found
[root@linuxserver ~]# lvs
[root@linuxserver ~]# df -hT /app1
filesystem      Type  Size  Used Avail Use% Mounted on
/dev/xvda1      xfs   8.0G  1.5G  6.6G  18% /
[root@linuxserver ~]#
```

```
lsblk
fdisk /dev/xvdf
lsblk
fdisk /dev/xvdf
l
fdisk /dev/xvdf
lsblk
mkfs.ext4 /dev/xvdf1
blkid
mkdir /batch1
mount -t ext4 /dev/xvdf1 /batch1
df -hT /batch1/
history
```

Ctrl

