# Create a two or three LVM file system like /app/app1/app2/db..

* Create a additional hard disk -100GB or 50GB
* Do the partition of hard disk
* $: sudo fdisk /dev/sdb
* n 🡪 new partition
* p 🡪 primary

+40G for partion hard disk

* p🡪 check whether its partition created

or not

/dev/sdb1 ; /dev/sdb2

* t 🡪 change the partition type

for linux LVM type (8e)

* w 🡪 write and save
* Now check using command

$: df –h or df –Th

(T use for to check type) or lsblk -l

* finally partition has been done.

## NOW CHANGE THE PARTITION INTO FILE SYSTEM

$: sudo apt-get install lvm

**Install LVM**

$: sudo pvcreate /dev/sdb1

$: sudo pvs

Create a

physical volume (ph)

**(**

$: sudo lvcreate –L +5G vlg –n lvm

$: sudo lvs

$ sudo vgcreate vlg /dev/sdb1

$: sudo vgs

$: df -h

$: sudo mount /dev/vlg/lvm /app

sudo mkdir /app

$: sudo mkfs .ext4 /dev/vlg/lvm

**Convert the device into filesystem,**

**Convert the file system into mount point**

Create a logical volume

(lv)

Create a volume group (vg)

FILE SYSTEM EXTENSION

Before extending the logical volume (lv) have to check whether there is space in vg then only can extend or else need to add another pv to vg or else need to get a new disk and pv , add to (vg) and then extend the (lv)

Pv =physical volume

Vg = volume group

lv = logical volume

To extension the file system

$: sudo vgs

$: sudo lvextend -L +4G /dev/vlg/lvm

$: sudo resize2fs /dev/vlg/lvm

$: df -h

Again open the same terminal

Check it whether it is saved are not

$: sudo reboot

$: Sudo vi /etc/fstab

$:wq!

To fix the mount data before reboot need to save in /etc/fstab