

## #fdisk /dev/vdb

(command m-for help) n -to create new partition

to change the partition type to lvm

(command m-for help) t ----to change type to lvm (p-primary, e-extended)

code 0x8e

Before we create logical volume physical storage should be formatted as physical volumes

>pvcreate /dev/stc1

>pvcreate /dev/std1

Then we need to configure these devices in single volume group. While creating volume group we need to specify some name i.e volume123

>vgcreate vgrp123 /dev/stc1 /dev/std1

Then we create logical volume on which file system is stored.

- -n -----Is for name of the volume
- -L ----size of the volume

>lvcreate -n mylv1 -L 1G vgrp123

Then create file system for the created volume

By default this mount system will be checked after every 23 mounts or 180 days whichever comes first. If you wants to tune it then use tune2fs -c or -I for override

>mkfs.ext3 /dev/vgrp123/mylv1

Then create a folder and mount it on the logical volume

>mkdir lvmdata

>mount /dev/vgrp123/mylv1 /lvmdata/

Use command df -h to see all disk fragments and disk free space

>df -h

o/p

```
[root@demo ~]# df -h
Filesystem
                     Size Used Avail Use% Mounted on
/dev/sda2
                      48G 6.4G
                                  39G 15% /
/dev/sdal
                      99M
                            12M
                                  83M 13% /boot
tmpfs
                     2.0G
                              Θ
                                 2.0G
                                       0% /dev/shm
/dev/sda3
                     959M
                            18M 885M
                                      2% /data
/dev/mapper/exampleVG-exampleLV
                    1008M
                            34M 924M
                                        4% /lymdata
[root@demo ~]#
```

This will show you following entries

/dev/mapper/vgrp123/mylv1

File system	Size	used	Avail	Use%	Mount on
/dev/mapper/vgrp123-	1008M	34M	924M	4%	/lvmdata
mylv1					

To resize or extend logical volume space allocated use following command

>lvextend -L +500 M /dev/vgrp123/mylv1

If you give command

>df -h ----- changes will not be reflected

>resize2fs /dev/vgrp123/mylv1 ----- to resize ext4 fs

>df -h ----- changes in size will be seen

To delete the gropup

vremove			
gremove			
vremove			
o display			
vdisplay			
o reduce volume groups			
greduce			
o extend volume group			
Vgextend vg1 /dev/vdb1volume group will be extended to pv /dev/vdb			