

LVM is used to manage volume & disk on the disk server , LVM volume manager allows disks to be combined together

Examples of LVM :

Like partition of disk in windows C , D drive similarly we can do the same in the linux

**Single disk can be divided into different partitions
Multiple disks combined & group them into one ,
then change it into different partitions**

**Advantage : In case of disk is running out of space ,
you can add new disk without breaking partitions of
your
File system**

**New space can be created for new project
In case of low disk space , increase the space
In case of extra space allocated to a partition ,
capacity can be reallocated**

**Task : we need to deploy 2 new applications app1 &
app2 on our server & need a separate partition for
each applications**

Steps

Install a new HDD
Make a partition to use it
Designate physical volume
Manage volume group
Manage logical group
Apply a filesystem
Set a mount point

Commands :

**** Fdisk -l**

Use of fdisk

Frisk /dev/sdb

Choose n to create new
Choose p to create a primary partition
Change the type of new partition [press t]
Select linux lvm

W for write

**** physical volume**

pvcreate /dev/sdb1
Pvdisplay

**** volume group**

Vgcreate vgapps /dev/sdb1

vgdisplay vgapps

**** logical volume**

*** Lvcreate -L size[1000M] -n lvname vname
Lvdisplay /dev/vgapps/lv-apps1**

**** apply a filesystem & set the mount point**

mkfs.ex4 path[/dev/vgapps/lv-app1]

**** create 2 dir with /
/app1
/app2**

**** mount /dev/vgapp/lv-app1 /app1
Mount /dev/vgapp/lv-app2 /app2**

Df -Th

**** cat /etc/mstab**

Vim /etc/fstab

Edit :

**** mount -av**

