

# LVM basic

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## LVM

SCAN a new disk

```
ls -l /sys/class/scsi_host/  
grep mpt /sys/class/scsi_host/host?/proc_name  
fdisk -l  
echo "- - -" > /sys/class/scsi_host/host2/scan
```

OVERVIEW OF DISKS and PARTITIONS

lsblk

Summary of Volume Groups

vgs (Volume Group Status)

Summary of Logical Volumes

lvs (Logical Volume Status)

Volume Group	Logical Volume
vgdisplay vgdisplay vg_gsp_1	lvdisplay lvdisplay vg_gsp_1
vgextend vg_gsp_1 /dev/sdc1	lvextend /dev/vg_gg1/lv_gspvol_001 lvextend --size +2G /dev/vg_gg1/lv_gspvol_001
vgreduce vg_gsp_1 /dev/sdc1	lvreduce /dev/vg_gg1/lv_gspvol_001 -2G
vgcreate vg_gsp_1 /dev/sdb1	lvcreate -L 6G -n lv_gspvol_001 /dev/vg_gg1 lvcreate -n lv_gpdisk_2 /dev/vg_gg1 lvremove /dev/vg_gsp_1/lv_gspvol_001
	mkfs -t ext4 /dev/vg_gsp_1/lv_gspvol_001 mkfs.xfs /dev/vg_gsp_1/lv_gspvol_001 resize2fs /dev/vg_gg1/lv_gspvol_001

SHRINK VOLUME

umount /gspmout1  
resize2fs -p /dev/vg\_gsp\_1/lv\_gspvol\_001 1G

```
e2fsck -f /dev/vg_gsp_1/lv_gspvol_001
resize2fs -p /dev/vg_gsp_1/lv_gspvol_001 1G
lvreduce -L 1G /dev/vg_gsp_1/lv_gspvol_001
mount /dev/vg_gsp_1/lv_gspvol_001 /gspmout1
```

## **INCREASE ROOT**

```
vgdisplay vg_rhce
lvdisplay vg_rhce
vgextend vg_rhce /dev/sdc1
lvextend /dev/vg_rhce/lv_root /dev/sdc1
lsblk
df -h
resize2fs /dev/vg_gg1/lv_root or xfs_growfs /dev/vg_gg1/lv_root
df -h
```

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