

虚拟机安装

```
yum install -y yum-utils \
    xfsprogs \
    device-mapper-persistent-data \
    lvm2

# 分区
fdisk -l

# 创建物理卷
pvcreate /dev/vdb #分区

# 创建卷组
# vgcreate <vg_name> <pv_path>
vgcreate vg_sdb /dev/vdb

# 创建逻辑卷
# lvcreate -n <lv_name> -l <size> <vg_name>
# -l 100%VG VG
# -L 200G 10240M
lvcreate -n lv0 -l 100%VG vg_sdb

# 格式化
# mkfs.xfs <lv_path>
mkfs.xfs /dev/vg_sdb/lv0

mkdir -p /data

# 写入fstab
echo "/dev/vg_sdb/lv0 /data xfs defaults 1 1" >> /etc/fstab #写入data

mount -a

df -hT
```

```
du -h --max-depth=1
```

■■■■■VG

```
# ■■PV
pvdiskay
pvs
```

```
# ■■vg
vgdiskay
vgs
```

```
# ■■lv
lvdiskay
lvs
```

```
# ■■■■■■■■■■vg
```

```
sudo vgchange -ay your_vg
```



```
fdisk -l
```

```
Disk /dev/vda: 42.9 GB, 42949672960 bytes, 83886080 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x000bcb4e
```

| Device | Boot | Start | End | Blocks | Id | System |
|-----------|------|-------|----------|----------|----|--------|
| /dev/vda1 | * | 2048 | 83886079 | 41942016 | 83 | Linux |

“system” “Linux” MBR “system” “GPT” GPT

```
# MBR
growpart /dev/vda 1
resize2fs /dev/vda1
```

```
#
lsblk
```

| NAME | FSTYPE | LABEL | UUID | MOUNTPOINT |
|--------------|-------------|-------|---|------------|
| sdb | LVM2_member | | 5CZc4N- IkIX- L8Ht- ptS7- X260- yFcz- 3uaj Ve | |
| L-data- data | xf | | e97e47e4- ff6c- 4707- b275- e74daeae8923 | /data |
| sda | | | | |
| L-sda1 | ext4 | | 414df44a- 36f4- 4406- bfb0- 8bebe6c31e49 | / |



```
# PV
pvresize /dev/vdb

# LV
lvresize -L +80G /dev/vg_sdb/lv0

# xfs
xfs_growfs /dev/mapper/vg_sdb- lv0

# ext2/ext3/ext4
# resize2fs /dev/mapper/vg_sdb- lv0
```