

# 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 # 200G

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

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

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

mkdir -p /data

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

mount -a

df -hT
```

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

## |||||VG

```
# |PV
pvdisplay
pvs
```

```
# |vg
vgdisplay
vgs
```

```
# |lv
lvdisplay
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

#  
lsblk -f

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

# MBR  
growpart /dev/vda 1



# PV  
pvresize /dev/vdb

# LV  
lvresize -L +80G /dev/vg\_sdb/lv0  
lvresize -L +100%FREE /dev/vg\_sdb/lv0

# xfs  
xfs\_growfs /dev/mapper/vg\_sdb- lv0  
# xfs\_growfs /data

# ext2/ext3/ext4  
# resize2fs /dev/mapper/vg\_sdb- lv0