挂载磁盘&&分区

磁盘读写速度测试

```
# 写入测试（测试哪块磁盘就进入到哪个挂载）
dd if=/dev/zero of=testfile bs=1G count=1 conv=fdatasync

# 清空缓存
echo 3 | sudo tee /proc/sys/vm/drop_caches

# 读取测试（测试哪个磁盘就读取哪个磁盘上的文件）
dd if=testfile of=/dev/null bs=1G
```

挂载磁盘

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

# 查看磁盘，找到磁盘路径
fdisk -l

# 创建物理卷
pvcreate /dev/vdb #就是找到的新磁盘

# 创建逻辑卷组
# vgcreate <vg_name> <pv_path>
vgcreate vg_vdb /dev/vdb

# 创建虚拟分区
# lvcreate -n <lv_name> -l <size>  <vg_name>
# -l 100%VG VG的全部大小
```

```
#  -L 200G 10240M
lvcreate -n lv0 -l 100%VG vg_vdb

# □□□□
# mkfs.xfs <lv_path>
mkfs.xfs /dev/vg_vdb/lv0

mkdir -p /data
# □□
echo "/dev/vg_vdb/lv0 /data xfs defaults 1 1" >> /etc/fstab #□□□data



mount -a

df -hT

du -h --max-depth=1 | sort -hr
```

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```
 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
└─data-data xfs               e97e47e4-ff6c-4707-b275-e74daeae8923   /data
sda
└─sda1      ext4              414df44a-36f4-4406-bfb0-8bebe6c31e49   /
```

□□□□□□

```
# □□MBR□□
growpart /dev/vdb 1

# □□□□□□xfs□□□□
xfs_growfs /data
```

□□□□□□□VG

```
# □□PV
pvdisplay
pvs

# □□vg
vgdisplay
vgs

# □□lv
lvdisplay
lvs

# □□□□□□□□□□□□□□□vg
```

```
sudo vgchange -ay your_vg
```

□□□

```
# □□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
```

□□□ #24
□ □□□ □□□ 26 □□ 2023 10:47:51
□ □□□ □□□ 27 □□ 2026 02:05:50