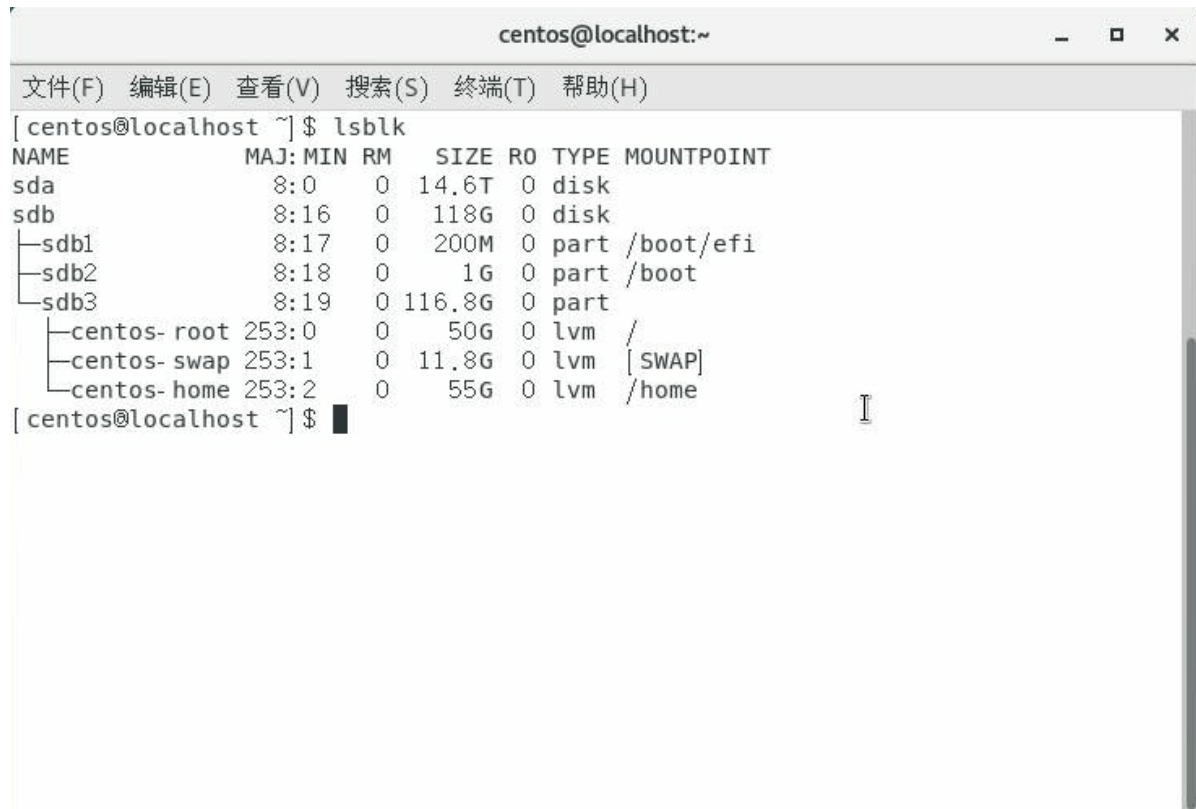


Linux挂载硬盘

1、查看硬盘

```
lsblk
```



```
centos@localhost:~
文件(F) 编辑(E) 查看(V) 搜索(S) 终端(T) 帮助(H)
[centos@localhost ~]$ lsblk
NAME                MAJ:MIN RM   SIZE RO TYPE MOUNTPOINT
sda                  8:0    0 14.6T  0 disk
sdb                  8:16    0  118G  0 disk
├─sdb1               8:17    0   200M  0 part /boot/efi
├─sdb2               8:18    0    1G    0 part /boot
└─sdb3               8:19    0 116.8G  0 part
   ├─centos- root 253:0    0    50G  0 lvm  /
   ├─centos- swap 253:1    0  11.8G  0 lvm  [SWAP]
   └─centos- home 253:2    0    55G  0 lvm  /home
[centos@localhost ~]$
```

2、格式化硬盘

对于新硬盘需要对硬盘进行格式化，对于已经有分区的硬盘可直接进行挂载：

```
mkfs.ext4 /dev/sda    ##ext4为硬盘格式，sda为执行的硬盘盘符
```

```
centos@localhost:/home/centos
文件(F) 编辑(E) 查看(V) 搜索(S) 终端(T) 帮助(H)
[root@localhost centos] # mkfs.ext4 /dev/sda
mke2fs 1.42.9 (28-Dec-2013)
/dev/sda is entire device, not just one partition!
无论如何也要继续? (y,n) y
文件系统标签 =
OS type: Linux
块大小=4096 (log=2)
分块大小=4096 (log=2)
Stride=0 blocks, Stripe width=0 blocks
488308736 inodes, 3906469888 blocks
195323494 blocks (5.00%) reserved for the super user
第一个数据块 =0
Maximum filesystem blocks=4294967296
119216 block groups
32768 blocks per group, 32768 fragments per group
4096 inodes per group
Superblock backups stored on blocks:
    32768, 98304, 163840, 229376, 294912, 819200, 884736, 1605632, 2654208,
    4096000, 7962624, 11239424, 20480000, 23887872, 71663616, 78675968,
    102400000, 214990848, 512000000, 550731776, 644972544, 1934917632,
    2560000000, 3855122432

Allocating group tables: 完成
正在写入inode表: 完成
Creating journal (32768 blocks): 完成
Writing superblocks and filesystem accounting information: 完成

[root@localhost centos] #
```

3、挂载硬盘

(1)、新建硬盘挂载点

```
mkdir /disk
```

```
centos@localhost:/home/centos
文件(F) 编辑(E) 查看(V) 搜索(S) 终端(T) 帮助(H)
[root@localhost centos] # mkdir /disk
[root@localhost centos] #
```

(2)挂载硬盘

```
mount /dev/sda /disk      ##将硬盘挂载到挂载点
```

```
centos@localhost:/home/centos
文件(F) 编辑(E) 查看(V) 搜索(S) 终端(T) 帮助(H)
[root@localhost centos] # mkdir /disk
[root@localhost centos] # mount /dev/sda /disk
[root@localhost centos] #
```

(3) 确认当前硬盘挂

载情况

```
centos@localhost:/home/centos
文件(F) 编辑(E) 查看(V) 搜索(S) 终端(T) 帮助(H)
[root@localhost centos] # mkdir /disk
[root@localhost centos] # mount /dev/sda /disk
[root@localhost centos] # lsblk
NAME                                MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
sda                                8:0    0  14.6T  0  disk /disk
sdb                                8:16    0   118G  0  disk
├─sdb1                             8:17    0   200M  0  part /boot/efi
├─sdb2                             8:18    0    1G    0  part /boot
├─sdb3                             8:19    0  116.8G  0  part
│   └─centos- root 253:0    0    50G    0  lvm  /
│       └─centos- swap 253:1    0   11.8G  0  lvm  [SWAP]
│           └─centos- home 253:2    0    55G    0  lvm  /home
[root@localhost centos] # █
```

4、开机自动挂载

(1)、看硬盘UUID,将需要挂载的硬盘UUID以及格式记录

blkid ##需要root权限

```
centos@localhost:/home/centos
文件(F) 编辑(E) 查看(V) 搜索(S) 终端(T) 帮助(H)
[root@localhost centos] # blkid
/dev/sda: UUID="abb7fafb-d41d-48ca-9804-c1696396da9f" TYPE="xfs"
/dev/sdb1: SEC_TYPE="msdos" UUID="6551-F4CA" TYPE="vfat" PARTLABEL="EFI System Partition" PARTUUID="5ec70f95-a7d1-4823-a01b-41f22b35086f"
/dev/sdb2: UUID="1104f0c2-847f-4722-8c68-997ca7c79934" TYPE="xfs" PARTUUID="f960117d-5343-4a3a-a976-595bbba81ea8"
/dev/sdb3: UUID="F1Axho-U5kg-Ysqr-f0E4-XMeh-JgAd-i0LCez" TYPE="LVM2_member" PARTUUID="df0f49e7-5f08-41ef-ae24-1a57d69c4908"
/dev/mapper/centos- root: UUID="7cfc7f4f-dc78-4f6b-8e8e-35601e7c2734" TYPE="xfs"
/dev/mapper/centos- swap: UUID="8c8b5e7b-325e-4faa-aca2-f8831b8df0d1" TYPE="swap"

/dev/mapper/centos- home: UUID="990c5f35-3833-4b53-a243-dc417780d283" TYPE="xfs"
[root@localhost centos] # █

I
```

(2)、将硬盘UUID添加到fstab

vim /etc/fstab

```
centos@localhost:/home/centos
文件(F) 编辑(E) 查看(V) 搜索(S) 终端(T) 帮助(H)

#
# /etc/fstab
# Created by anaconda on Sun Dec 19 14:51:01 2021
#
# Accessible filesystems, by reference, are maintained under '/dev/disk'
# See man pages fstab(5), findfs(8), mount(8) and/or blkid(8) for more info
#
/dev/mapper/centos-root / xfs defaults 0 0
UUID=1104f0c2-847f-4722-8c68-997ca7c79934 /boot xfs default
ts 0 0
UUID=6551-F4CA /boot/efi vfat umask=0077,shortname=win
nt 0 0
/dev/mapper/centos-home /home xfs defaults 0 0
/dev/mapper/centos-swap swap swap defaults 0 0
UUID=8d8f50c5-bcfc-4a57-921a-c200120173e9 /disk ext4 defaults
0 1

~
~
~
~
~

"/etc/fstab" 14L, 694C
```

保存退出

4、启用挂载

```
mount -a
```

```
centos@localhost:/home/centos
文件(F) 编辑(E) 查看(V) 搜索(S) 终端(T) 帮助(H)

[root@localhost centos] # mount -a
[root@localhost centos] # lsblk
NAME                MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
sda                  8:0    0 14.6T  0 disk /disk
sdb                  8:16    0  118G  0 disk
├─sdb1               8:17    0   200M  0 part /boot/efi
├─sdb2               8:18    0    1G    0 part /boot
└─sdb3               8:19    0 116.8G  0 part
   ├─centos-root     253:0    0    50G  0 lvm  /
   ├─centos-swap     253:1    0  11.8G  0 lvm  [SWAP]
   └─centos-home     253:2    0    55G  0 lvm  /home
[root@localhost centos] #
```

