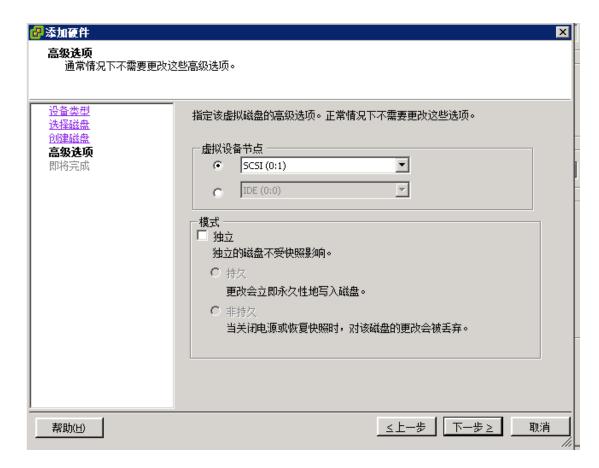
Linux 磁盘挂载

1 当前的情况

```
CentOS Linux 7 (Core)
Kernel 3.10.0-327.e17.x86_64 on an x86_64
localhost login: root
Password:
Last login: Sun Sep 6 21:41:39 on tty1
[root@localhost ~l# df -h
                                   Used Avail Use% Mounted on 1.2G 49G 3% /
Filesystem
                            Size
/dev/mapper/centos-root
                             50G
                                          498G
                                                  0% /dev
devtmpfs
                            498G
                                      0
tmpfs
                             498G
                                       0
                                          498G
                                                  0% /dev/shm
                                   8.5M
                                          498G
tmpfs
                             498G
                                                  1% /run
                             498G
                                          498G
                                                  0% /sys/fs/cgroup
tmpfs
                                      0
                                                  1% /home
                                          146G
/dev/mapper/centos-home
                             146G
                                   276M
/dev/sda1
                             497M
                                   123M 374M
                                                 25% /boot
tmpfs
                             100G
                                       0
                                          100G
                                                  0% /run/user/0
[root@localhost ~1#
```

2 关机,增加硬盘(VM)





3 重启虚拟机,显示磁盘

```
[root@localhost ~]# fdisk ~]

Disk /dev/sda: 214.7 GB, 214748364800 bytes, 419430400 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x000bdbc3

Device Boot Start End Blocks Id System
/dev/sda1 * 2048 1026047 512000 83 Linux
/dev/sda2 1026048 419430399 209202176 8e Linux LVM

Disk /dev/sdb: 107.4 GB, 107374182400 bytes, 209715200 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
Sector size (minimum/optimal): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk /dev/mapper/centos-root: 53.7 GB, 53687091200 bytes, 104857600 sectors
Units = sectors of 1 * 512 = 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk /dev/mapper/centos-svap: 4294 MB, 4294967296 bytes, 8388608 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes

Disk /dev/mapper/centos-svap: 4294 MB, 4294967296 bytes, 8388608 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes

Disk /dev/mapper/centos-bome: 156.2 GB, 156174909440 bytes, 805029120 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes

Disk /dev/mapper/centos-home: 156.2 GB, 156174909440 bytes, 805029120 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes

Disk /dev/mapper/centos-home: 156.2 GB, 156174909440 bytes, 805029120 sectors
Units = sectors of 1 * 512 = 512 bytes

Disk /dev/mapper/centos-home: 156.2 GB, 156174909440 bytes, 805029120 sectors
Units = sectors of 1 * 512 = 512 bytes

Disk /dev/mapper/centos-home: 156.2 GB, 156174909440 bytes, 805029120 sectors
Units = sectors of 1 * 512 = 512 bytes

Disk /dev/mapper/centos-home: 156.2 GB, 156174909440 bytes, 805029120 sectors
Units = sectors of 1 * 512 = 512 bytes

Disk /dev/mapper/centos-home: 156.2 GB, 156174909440 bytes, 805029120 sectors
Units = sectors of 1 * 5
```

4 格式化分区:将/dev/sdb 格式化为 ext4 类型

5 为这个硬盘创建分区 (/dev/sdb)

依次输入 n , p , 1 , w , 其中 n 分别表示创建一个新分区 , p 表示分区类型为主分区 , 1 表示分区编号是 1 , w 表示保存

```
[root@localhost home]# fdisk /dev/sdb
Welcome to fdisk (util-linux 2.23.2).

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Device does not contain a recognized partition table
Building a new DOS disklabel with disk identifier 0x85c85c71.

Command (m for help): n
Partition type:
    p    primary (0 primary, 0 extended, 4 free)
    e    extended
Select (default p): p
Partition number (1 p, default 1) 1
First sector (2048-209715199, default 2048):
Using default value 2048
Last sector, +sectors or +size{K,M,G} (2048-209715199, default 209715199):
Using default value 209715199
Partition 1 of type Linux and of size 100 GiB is set

Command (m for help): w
The partition table has been altered!

Calling ioctl() to re-read partition table.
Syncing disks.
[root@localhost home]#
```

6 输入 mkdir /data, 在根目录创建/data 作为此分区的挂载点, 输 mount /dev/sdb /data, 将分区挂载到目录下, 通过 df - h,可以看到挂载成功。

```
[root@localhost /]# mkdir /data
[root@localhost /]# mkdir /data
[root@localhost /]# mount /dev/sdb /data
[root@localhost /]# df -h | grep sdb
/dev/sdb 99G 61M 94G 1% /data
[root@localhost /]# |
```

7 但是挂载是临时的,系统重启后需要重新挂载,我们希望下次启动时,自动挂载,输 vi /etc/fstab,增加下图红框的配置,/dev/sdb是分区,/data是挂载此分区的目录,ext4是磁盘格式,后面的照抄上面一个行的信息。

```
[root@localhost /]# v1 /etc/fstab
# /etc/fstab
# Created by anaconda on Thu Sep 3 23:50:39 2020
#
# 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 /
UUID=44768b9b-178b-4ad1-a629-0db3878d672d /boot
                                                                     defaults
                                                                                         0 0
                                                                                           defaults
                                                                                                               0 0
                                                                                         0 0
 /dev/mapper/centos-home /home
                                                                      defaults
                                                                      defaults
/dev/sdb /data ext4 defaults 0 0
  rooi@localhosi /]# 📴
□ 华泽立未到华益vulu11室口的心动本洋
```

8 重启电脑

```
CentOS Linux 7 (Core)
Kernel 3.10.0-327.el7.x86_64 on an x86_64
localhost login: root
Password:
Last login: Sun Sep 6 20:59:18 from 192.168.10.62
[root@localhost ~]# df -h
Filesystem
                         Size
                               Used Avail Usez Mounted on
/dev/mapper/centos-root
                          50G
                                1.2G
                                       49G
                                             3% /
                                             0% /dev
devtmpfs
                         498G
                                   0
                                      498G
                         498G
                                   0
                                      498G
                                             0% /dev/shm
tmpfs
                         498G
                                8.5M
                                      498G
tmpfs
                                             1% /run
                                      498G
tmpfs
                         498G
                                   0
                                             0% /sys/fs/cgroup
/dev/sdb
                           99G
                                 61M
                                       94G
                                             1% /data
/dev/sda1
                         497M
                                124M
                                     373M
                                            25% /boot
                                276M
                                      146G
                                             1% /home
/dev/mapper/centos-home
                          146G
                                      100G
tmpfs
                         100G
                                   0
                                             0% /run/user/0
[root@localhost ~]# _
```