# 查看硬盘信息

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#### 服务器的维护中:



#### 硬盘的利用率最大化

添加硬盘、分区以及管理硬盘文件



# 硬盘管理



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查看硬盘信息、硬盘分区

02

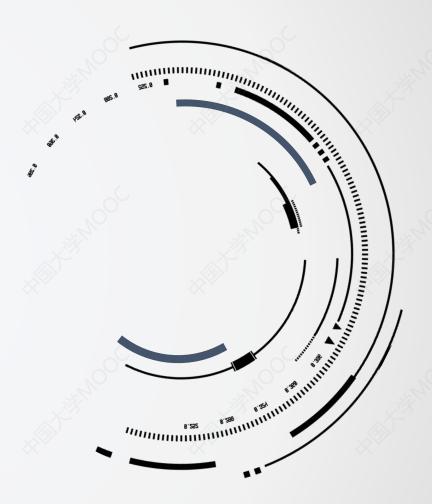
分区格式化

03

分区挂载、永久挂载

04

交换分区





# 使用硬盘的步骤







## df

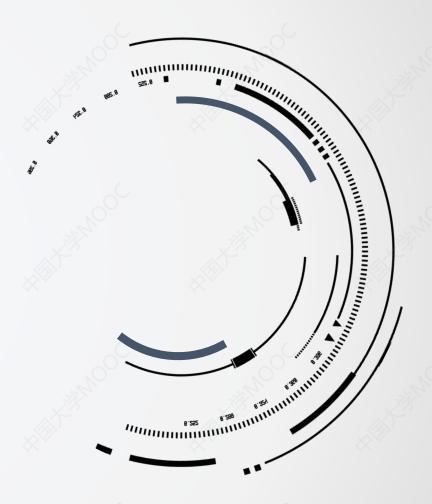


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- 检查文件系统磁盘占用情况,包括硬盘
- ◆ 命令格式: df [-ahikHTm] [目录或文件名]

<pre>[root@promote ~]# df Filesystem /dev/mapper/centos-root devtmpfs tmpfs tmpfs tmpfs /dev/mapper/centos-home /dev/sdal tmpfs</pre>	1002860 1015084 1015084 1015084	1033924 0 0 9736	77693696 1002860 1015084 1005348 1015084 20928336	2% 0% 0% 1% 0% 1% 13%	Mounted on / /dev /dev/shm /run /sys/fs/cgroup /home /boot /run/user/0
---	--	---------------------------	--	---	--

[root@promote ~]# df -Th										
Filesystem	Туре	Size	Used	Avail	Use%	Mounted on				
/dev/mapper/centos-root	xfs	76G	1010M	75G	2%	10				
devtmpfs	devtmpfs	980M	0	980M	0%	/dev				
tmpfs	tmpfs	992M	0	992M	0%	/dev/shm				
tmpfs	tmpfs	<sup>992M</sup>	9.6M	982M	1%	/run				
tmpfs	tmpfs	992M	0	992M	0%	/sys/fs/cgroup				
/dev/mapper/centos-home	xfs	20G	33M	20G	1%	/home				
/dev/sdal	xfs	1014M	130M	885M	13%	/boot				
tmpfs	tmpfs	199M	0	199M	0%	/run/user/0				





### Isblk

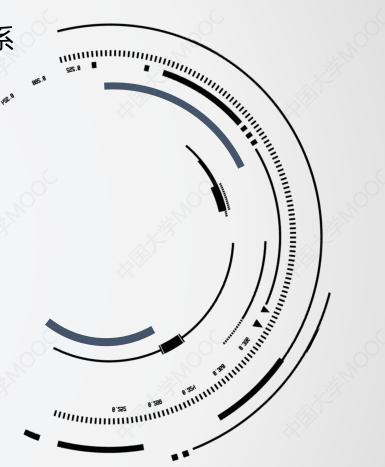


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- ◆ 列出所有可用块设备的信息,而且还能显示他们之间的依赖关系
- ◆ 命令格式: Isblk [选项] [设备文件名]



Isblk --help



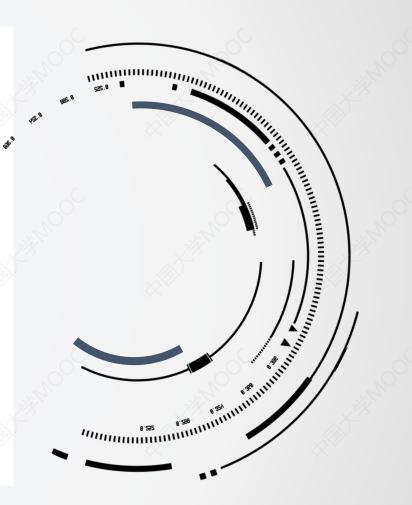


#### Isblk



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```
[root@promote ~]# [sblk --help
Usage:
lsblk [options] [<device> ...]
                                                显示所有设备信息,包括空设备
Options:
-a, --all
                     print all devices
-b, --bytes
                     print SIZE in bytes rather than in human readable format
                     don't print slaves or holders
 -d, --nodeps
                     print discard capabilities
 -D, --discard
 -e, --exclude <list> exclude devices by major number (default: RAM disks)
 -I, --include st> show only devices with specified major numbers
 -f, --fs
                     output info about filesystems
 -h, --help
                     usage information (this)
 -i, --ascii
 -m, --perms
                    俞出有关文件系统信息,包括设备的文件系统、UUID号等
 -l. --list
 -n, --noheadings
                     don.t brint headings
 -o, --output ist> output columns
                     print complate device path
 -p, --paths
 -P, --pairs
                     use key="value" output format
                     use raw output format
 -r, --raw
                     inverse dependencies
 -s, --inverse
                     output info about topology
 -t, --topology
                     output info about SCSI devices
 -S, --scsi
 -h, --help
               display this help and exit
 -V, --version output version information and exit
```





## blkid



◆主要用来对系统的块设备所使用的文件系统类型、LABEL、UUID等信息进行查询。

◆ 命令格式: blkid [选项] [设备文件名]

[root@promote ~]# blkid

/dev/sdal: UUID="c8d0bc3f-bb4f-46a3-8666-31b34f2f55f3" TYPE="xfs"

/dev/sda2: UUID="sgB7Ds-yDPJ-ZCML-2AuW-508S-tiZU-i3jod0" TYPE="LVM2 member"

/dev/sr0: UUID="2018-05-03-20-55-23-00" LABEL="CentOS 7 x86 64" TYPE="iso9660" PTTYPE="dos"

/dev/mapper/centos-root: UUID="91cada90-d247-4d7d-9357-88ed31d1ec42" TYPE="xfs" /dev/mapper/centos-swap: UUID="15e4a8c7-6bbb-4560-805d-25378c25265b" TYPE="swap" /dev/mapper/centos-home: UUID="36b60ee4-9364-4c4d-88de-3e3f6a29be1d" TYPE="xfs"





### fdisk



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```
[root@promote ~]# fdisk
Usage:
fdisk [options] <disk>
                          change partition table
fdisk [options] -l <disk> list partition table(s)
fdisk -s <partition>
                           give partition size(s) in blocks
```

#### Options:

-b <size> -c[=<mode>] print this help text -u[=<unit>] print program version -C <number> -H <number> -S <number>

sector size (512, 1024, 2048 or 4096) compatible mode: 'dos' or 'nondos' (default) display units: 'cylinders' or 'sectors' (default) specify the number of cylinders specify the number of heads specify the number of sectors per track





### fdisk

#### [root@promote ~]# fdisk -l

Disk /dev/sda: 107.4 GB, 107374182400 bytes, 209715200 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: 0x000cd94b

Device Boot Start End Blocks Id System /dev/sdal \* 2048 2099199 1048576 83 Linux /dev/sda2 2099200 209715199 103808000 8e Linux LVM

Disk /dev/sdb: 16.1 GB, 16106127360 bytes, 31457280 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 /dev/mapper/centos-root: 80.7 GB, 80656465920 bytes, 157532160 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 /dev/mapper/centos-swap: 4160 MB, 4160749568 bytes, 8126464 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

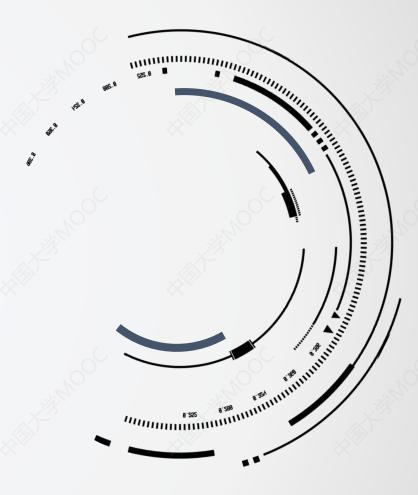
Disk /dev/mapper/centos-home: 21.5 GB, 21474836480 bytes, 41943040 sectors

Units = sectors of 1 \* 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes I/O size (minimum/optimal): 512 bytes / 512 bytes



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# 感谢您的观看!

