

Linux分区：超过2TB硬盘分区

查看硬盘设备

```
[root@FocusBackup ~]# fdisk -l
```

Disk /dev/sda: 322.1 GB, 322122547200 bytes
255 heads, 63 sectors/track, 39162 cylinders
Units = cylinders of 16065 * 512 = 8225280 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk identifier: 0x000a4673

Device	Boot	Start	End	Blocks	Id	System
/dev/sda1	*	1	26	204800	83	Linux
Partition 1 does not end on cylinder boundary.						
/dev/sda2		26	1332	10485760	82	Linux swap / Solaris
/dev/sda3		1332	26109	199023616	83	Linux
/dev/sda4		26109	39163	104857600	5	Extended
/dev/sda5		26109	39163	104856576	83	Linux

Disk /dev/sdb: 2199.0 GB, 2199023254528 bytes
255 heads, 63 sectors/track, 267349 cylinders
Units = cylinders of 16065 * 512 = 8225280 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk identifier: 0x000bfa7a

Device	Boot	Start	End	Blocks	Id	System
/dev/sdb1		1	267349	2147480811	83	Linux

Disk /dev/sdd: 1099.5 GB, 1099511627776 bytes
255 heads, 63 sectors/track, 133674 cylinders
Units = cylinders of 16065 * 512 = 8225280 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk identifier: 0x00000000

Disk /dev/sdd doesn't contain a valid partition table

Disk /dev/sdc: 2199.0 GB, 2199023254528 bytes
255 heads, 63 sectors/track, 267349 cylinders
Units = cylinders of 16065 * 512 = 8225280 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk identifier: 0x26e7758c

Device	Boot	Start	End	Blocks	Id	System
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```
/dev/sdc1          1      267349  2147480811   83  Linux
```

WARNING: GPT (GUID Partition Table) detected on '/dev/sde'! The util fdisk doesn't support GPT. Use GNU Parted.

Disk /dev/sde: 6597.0 GB, 6596969103360 bytes

255 heads, 63 sectors/track, 802035 cylinders

Units = cylinders of 16065 * 512 = 8225280 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk identifier: 0x00000000

Device	Boot	Start	End	Blocks	Id	System
/dev/sde1		1	267350	2147483647+	ee	GPT

对超过2TB的硬盘进行分区需要使用parted

```
[root@FocusBackup ~]# parted /dev/sde
```

GNU Parted 2.1

救援 /dev/sde

Welcome to GNU Parted! Type 'help' to view a list of commands.

(parted) mklabel gpt

警告: The existing disk label on /dev/sde will be destroyed and all data on this disk will be lost. Do you want to continue?

是/Yes/是/No? y

(parted) print

Model: OPNFILER VIRTUAL-DISK (scsi)

Disk /dev/sde: 6597GB

Sector size (logical/physical): 512B/512B

Partition Table: gpt

Number	Start	End	Size	File system	Name	状态
--------	-------	-----	------	-------------	------	----

(parted) mkpart primary 0KB 6597GB

警告: You requested a partition from 0.00B to 6597GB.

The closest location we can manage is 17.4kB to 6597GB.

Is this still acceptable to you?

是/Yes/是/No? y

警告: The resulting partition is not properly aligned for best performance.

调整/Ignore/取消/Cancel? i

(parted) print

Model: OPNFILER VIRTUAL-DISK (scsi)

Disk /dev/sde: 6597GB

Sector size (logical/physical): 512B/512B

Partition Table: gpt

Number	Start	End	Size	File system	Name	状态
1	17.4kB	6597GB	6597GB		primary	

(parted) quit

佬惠: You may need to update /etc/fstab.

对创建好的大分区进行格式化

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```
[root@FocusBackup ~]# mkfs.ext3 /dev/sde1
```

mkfs 1.41.12 (17-May-2010)

竟任叙绥性算=

攞佢叙绥:Linux

坝夭朶=4096 (log=2)

刵坝夭朶=4096 (log=2)

Stride=0 blocks, Stripe width=0 blocks

402653184 inodes, 1610588151 blocks

80529407 blocks (5.00%) reserved for the super user

算丌丰嗽捻坝=0

Maximum filesystem blocks=4294967296

49152 block groups

32768 blocks per group, 32768 fragments per group

8192 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

步圮冑八inode表: 宅或

Creating journal (32768 blocks): 宅或

Writing superblocks and filesystem accounting information: 宅或

This filesystem will be automatically checked every 37 mounts or
180 days, whichever comes first. Use tune2fs -c or -i to override.

写入开机启动项，完成挂载操作

匡佻倭箒vi /etc/fstab

乏匡佻倭箒vi /etc/rc.local

```
# /etc/fstab
# Created by anaconda on Thu Aug 11 04:59:16 2016
#
# 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
#
UUID=a4d8524f-af02-4cb6-abd9-b6f1b7f15b81 / xfs defaults 0 0
UUID=c17665e6-4dc7-41eb-92d5-54ddb6f7057 /boot xfs defaults 0 0
UUID=c9c7fda9-887a-43d9-ac3b-20d6cfb87e47 swap swap defaults 0 0
/dev/sdb1 /data/mongodb xfs defaults 0 0
/dev/sdb2 /data/backup xfs defaults 0 0
/dev/sdb /tb xfs defaults 0 0
~
~
```