

Phân vùng ổ cứng định dạng Linux LVM

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1. Tao mới phân vùng ổ cứng LVM
Kiểm tra package lvm2 đã cài chưa
# rpm -qa | grep lvm2
Chia hai phân vùng /dev/sdb1 và /dev/sdb2
# fdisk /dev/sdb
Command (m for help): n
Command action
 e extended
 p primary partition (1-4)
Partition number (1-4): 1
First cylinder (1-2610, default 1): enter
Using default value 1
Last cylinder, +cylinders or +size\{K,M,G\} (1-2610, default 2610): +10G
Command (m for help): t
Selected partition 1
Hex code (type L to list codes): 8e
Changed system type of partition 1 to 8e (Linux LVM)
Command (m for help): n
Command action
 e extended
 p primary partition (1-4)
Partition number (1-4): 2
First cylinder (1307-2610, default 1307):
Using default value 1307
Last cylinder, +cylinders or +size\{K,M,G\} (1307-2610, default 2610):
Using default value 2610
Command (m for help): t
Partition number (1-4): 2
Hex code (type L to list codes): 8e
Changed system type of partition 2 to 8e (Linux LVM)
Command (m for help): w
The partition table has been altered!
# fdisk -1
```



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Tạo mới physical volume
# pvcreate /dev/sdb1
# pvdisplay
Tạo mới volume group
# vgcreate vg_centos /dev/sdb1
 Volume group "vg_centos" successfully created
# vgdisplay
Tao mới logical volume
# lvcreate -l 100% FREE -n lv_data vg_centos
 Logical volume "lv_data" created
# lvdisplay
 --- Logical volume ---
LV Path
                 /dev/vg_centos/lv_data
Format và mount logical volume
# mkfs.ext4 /dev/vg_centos/lv_data
# mkdir /data
# mount /dev/vg_centos/lv_data /data
# df -hT
                Type Size Used Avail Use% Mounted on
Filesystem
/dev/mapper/vg_centos-lv_data
            ext4 9.8G 23M 9.2G 1%/data
2. Mở rộng phân vùng ổ cứng LVM
# pvcreate /dev/sdb2
 Physical volume "/dev/sdb2" successfully created
# vgdisplay
 --- Volume group ---
 VG Name
                  vg_centos
# vgextend vg_centos /dev/sdb2
 Volume group "vg_centos" successfully extended
# pvscan
PV/dev/sdb1 VG vg_centos lvm2 [10.00 GiB / 0 free]
PV/dev/sdb2 VG vg_centos lvm2 [9.98 GiB / 9.98 GiB free]
```



lvdisplay

--- Logical volume ---

LV Path /dev/vg_centos/lv_data

LV Name lv_data
VG Name vg_centos

lvextend /dev/vg_centos/lv_data /dev/sdb2

Size of logical volume vg_centos/lv_data changed from 10.00 GiB (2560 extents) to 19.98 GiB (5116 extents).

Logical volume lv_data successfully resized

resize2fs /dev/vg_centos/lv_data

resize2fs 1.41.12 (17-May-2010)

Filesystem at /dev/vg_centos/lv_data is mounted on /data; on-line resizing required

old desc_blocks = 1, new_desc_blocks = 2

Performing an on-line resize of /dev/vg_centos/lv_data to 5238784 (4k) blocks.

The filesystem on /dev/vg_centos/lv_data is now 5238784 blocks long.

df -hT

/dev/mapper/vg_centos-lv_data

ext4 **20G** 28M 19G 1%/data