

Redimensionner une partition LVM avec un minimum de coupure ...

```
fdisk -l
```

Si la nouvelle taille n'apparaît pas, lancer la commande suivante :

```
echo 1 > /sys/class/scsi_device/0\:0\:0\:0/device/rescan
```

Revérifier avec toujours :

```
fdisk -l
```

Ensuite il va falloir supprimer la partition et la recréer avec fdisk :

```
# fdisk /dev/sda
```

```
Welcome to fdisk (util-linux 2.36.1).
```

```
Changes will remain in memory only, until you decide to write them.
```

```
Be careful before using the write command.
```

```
Command (m for help): p
```

```
Disk /dev/sda: 128 GiB, 137438953472 bytes, 268435456 sectors
```

```
Disk model: Virtual disk
```

```
Units: sectors of 1 * 512 = 512 bytes
```

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

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

```
Disklabel type: dos
```

```
Disk identifier: 0x868c407c
```

Device	Boot	Start	End	Sectors	Size	Id	Type
--------	------	-------	-----	---------	------	----	------

```
/dev/sda1 *      2048    999423    997376  487M 83 Linux
/dev/sda2      1001470 134215679 133214210 63.5G  5 Extended
/dev/sda5      1001472 134215679 133214208 63.5G 8e Linux LVM
```

Command (m for help): d

Partition number (1,2,5, default 5): 2

Partition 2 has been deleted.

Command (m for help): n

Partition type

- p primary (1 primary, 0 extended, 3 free)
- e extended (container for logical partitions)

Select (default p): e

Partition number (2-4, default 2):

First sector (999424-268435455, default 999424): 1001470

Last sector, +/-sectors or +/-size{K,M,G,T,P} (1001470-268435455, default 268435455):

Created a new partition 2 of type 'Extended' and of size 127.5 GiB.

Command (m for help): p

Disk /dev/sda: 128 GiB, 137438953472 bytes, 268435456 sectors

Disk model: Virtual disk

Units: sectors of 1 * 512 = 512 bytes

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

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

Disklabel type: dos

Disk identifier: 0x868c407c

Device	Boot	Start	End	Sectors	Size	Id	Type
/dev/sda1	*	2048	999423	997376	487M	83	Linux
/dev/sda2		1001470	268435455	267433986	127.5G	5	Extended

Command (m for help): n

All space for primary partitions is in use.

Adding logical partition 5

First sector (1003518-268435455, default 1003520):

Last sector, +/-sectors or +/-size{K,M,G,T,P} (1003520-268435455, default 268435455):

Created a new partition 5 of type 'Linux' and of size 127.5 GiB.

Partition #5 contains a ext4 signature.

Do you want to remove the signature? [Y]es/[N]o: Y

The signature will be removed by a write command.

Command (m for help): p

Disk /dev/sda: 128 GiB, 137438953472 bytes, 268435456 sectors

Disk model: Virtual disk

Units: sectors of 1 * 512 = 512 bytes

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

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

Disklabel type: dos

Disk identifier: 0x868c407c

Device	Boot	Start	End	Sectors	Size	Id	Type
/dev/sda1	*	2048	999423	997376	487M	83	Linux
/dev/sda2		1001470	268435455	267433986	127.5G	5	Extended
/dev/sda5		1003520	268435455	267431936	127.5G	83	Linux

Filesystem/RAID signature on partition 5 will be wiped.

Command (m for help): x

Expert command (m for help): b

Partition number (1,2,5, default 5): 5

New beginning of data (1001471-268435455, default 1003520): 1001472

Expert command (m for help): p

Disk /dev/sda: 128 GiB, 137438953472 bytes, 268435456 sectors

Disk model: Virtual disk

Units: sectors of 1 * 512 = 512 bytes

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

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

Disklabel type: dos

Disk identifier: 0x868c407c

Device	Boot	Start	End	Sectors	Id	Type	Start-C/H/S	End-C/H/S	Attrs
/dev/sda1	*	2048	999423	997376	83	Linux	4/4/1	1023/254/2	80

```
/dev/sda2      1001470 268435455 267433986  5 Extended  939/170/1      8/7/2
/dev/sda5      1001472 268435455 267433984 83 Linux    943/175/1      8/7/2
```

Expert command (m for help): r

Command (m for help): p

Disk /dev/sda: 128 GiB, 137438953472 bytes, 268435456 sectors

Disk model: Virtual disk

Units: sectors of 1 * 512 = 512 bytes

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

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

Disklabel type: dos

Disk identifier: 0x868c407c

Device	Boot	Start	End	Sectors	Size	Id	Type
/dev/sda1	*	2048	999423	997376	487M	83	Linux
/dev/sda2		1001470	268435455	267433986	127.5G	5	Extended
/dev/sda5		1001472	268435455	267433984	127.5G	83	Linux

Command (m for help): t

Partition number (1,2,5, default 5): 5

Hex code or alias (type L to list all): 8e

Changed type of partition 'Linux' to 'Linux LVM'.

Command (m for help): p

Disk /dev/sda: 128 GiB, 137438953472 bytes, 268435456 sectors

Disk model: Virtual disk

Units: sectors of 1 * 512 = 512 bytes

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

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

Disklabel type: dos

Disk identifier: 0x868c407c

Device	Boot	Start	End	Sectors	Size	Id	Type
/dev/sda1	*	2048	999423	997376	487M	83	Linux
/dev/sda2		1001470	268435455	267433986	127.5G	5	Extended
/dev/sda5		1001472	268435455	267433984	127.5G	8e	Linux LVM

Command (m for help): wr

The partition table has been altered.

Failed to update system information about partition 2: Device or resource busy

The kernel still uses the old partitions. The new table will be used at the next reboot.

Syncing disks.

Ensuite on redimensionne la partition virtuelle :

```
pvresize /dev/sda5
```

Physical volume "/dev/sda5" changed

1 physical volume(s) resized or updated / 0 physical volume(s) not resized

On peut constater avec vps :

```
~# pvs
```

PV	VG	Fmt	Attr	PSize	PFree
/dev/sda5	vm-it-vg	lvm2	a--	<127.52g	64.01g

et vgs :

```
~# vgs
```

VG	#PV	#LV	#SN	Attr	VSize	VFree
vm-it-vg	1	5	0	wz--n-	<127.52g	64.01g

On extend le lvm voulu :

```
lvextend -l +100%FREE /dev/mapper/vm--it--vg-home
```

Mais ce n'est pas fini comme on peut le voir :

```
root@vm-it:~# df -h
```

Filesystem	Size	Used	Avail	Use%	Mounted on
udev	1.9G	0	1.9G	0%	/dev
tmpfs	392M	616K	392M	1%	/run
/dev/mapper/vm--it--vg-root	12G	3.8G	7.5G	34%	/
tmpfs	2.0G	0	2.0G	0%	/dev/shm
tmpfs	5.0M	0	5.0M	0%	/run/lock
/dev/mapper/vm--it--vg-home	45G	138M	42G	1%	/home
/dev/mapper/vm--it--vg-tmp	794M	132K	737M	1%	/tmp
/dev/mapper/vm--it--vg-var	4.2G	673M	3.4G	17%	/var
/dev/sda1	470M	312M	134M	70%	/boot

tmpfs

392M

0

392M

0% /run/user/0

On doit redimensionner le système de fichiers :

```
~# resize2fs /dev/mapper/vm--it--vg-home
resize2fs 1.46.2 (28-Feb-2021)
Filesystem at /dev/mapper/vm--it--vg-home is mounted on /home; on-line resizing required
old_desc_blocks = 6, new_desc_blocks = 14
The filesystem on /dev/mapper/vm--it--vg-home is now 28653568 (4k) blocks long.
```

Et voilà c'est fini !

Revision #1

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