

Etendre une partition sous Ubuntu

1- Regarder les partitions

```
fdisk -l
```

```
root@sla-stream:/# fdisk -l
```

```
Disk /dev/loop0: 173.45 MiB, 181870592 bytes, 355216 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/loop1: 173.46 MiB, 181882880 bytes, 355240 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/loop2: 73.86 MiB, 77443072 bytes, 151256 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/loop3: 73.86 MiB, 77443072 bytes, 151256 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/loop4: 53.26 MiB, 55844864 bytes, 109072 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/loop5: 53.26 MiB, 55844864 bytes, 109072 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/sdb: 10 TiB, 10995116277760 bytes, 21474836480 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: gpt
```

```
Disk identifier: E659F410-5449-450C-9401-554F5C4D4155
```

Device	Start	End	Sectors	Size	Type
/dev/sdb1	2048	21474834431	21474832384	10T	Linux filesystem

```
Disk /dev/sda: 50 GiB, 53687091200 bytes, 104857600 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: gpt
```

```
Disk identifier: 91C9AEF4-2153-43FD-8E05-5FBAEB6F969D
```

Device	Start	End	Sectors	Size	Type
/dev/sda1	2048	2203647	2201600	1G	EFI System
/dev/sda2	2203648	6397951	4194304	2G	Linux filesystem

2- Regarder l'utilisation des partitions

df -h

```
root@sla-stream:/# df -h
Filesystem                Size  Used Avail Use% Mounted on
tmpfs                     1.6G  2.7M  1.6G   1% /run
/dev/mapper/ubuntu--vg-ubuntu--lv 23G  22G  649M  98% /
tmpfs                     7.8G   0  7.8G   0% /dev/shm
tmpfs                     5.0M   0  5.0M   0% /run/lock
/dev/sda2                 2.0G  456M  1.4G  25% /boot
/dev/sda1                 1.1G  6.1M  1.1G   1% /boot/efi
/dev/sdb1                 10T   2.0T  7.5T  21% /data
overlay                  23G  22G  649M  98% /var/lib/docker/overlay2/167091490f9cabcf5f004352879c79654e97abb140f226c42570a1c2f8568befa/merged
overlay                  23G  22G  649M  98% /var/lib/docker/overlay2/09158909a8ed03e6d69ede41440e204514a886b1be486069b97c4f8ea65f38c/merged
overlay                  23G  22G  649M  98% /var/lib/docker/overlay2/87f0bb23cde8d6c70a1897200c3bb3fb17d3f91028c85075371a696316faca5d/merged
overlay                  23G  22G  649M  98% /var/lib/docker/overlay2/749899245ba3c483d0c7fe35502670a8cbe1bfc4c41fb08eddc9300019def563/merged
overlay                  23G  22G  649M  98% /var/lib/docker/overlay2/bb5982f362c797d92e88d6eb9e1ad03573713ce956360cba48caabd8bde968ad/merged
overlay                  23G  22G  649M  98% /var/lib/docker/overlay2/7fd5715fad0b8e1a6625991ce89d65d46b412aec54fda45aea11a548df2da2cb/merged
overlay                  23G  22G  649M  98% /var/lib/docker/overlay2/f6b6c02d5e4f86c1253d493c3e4ea43d5ab121b5769759a98355719e1bee1382/merged
overlay                  23G  22G  649M  98% /var/lib/docker/overlay2/648ed65f785020016b370d240c9ecbf985d4a4c869a281deb262d3dc5205672/merged
overlay                  23G  22G  649M  98% /var/lib/docker/overlay2/40403a424ff7bbb47942490537cb9792bf2cf29cd52c80d91e0175f34ffb8fa/merged
overlay                  23G  22G  649M  98% /var/lib/docker/overlay2/84e4a073e41b99c7386ae23b564365c5c61f054cd422580955a92b20305697be/merged
overlay                  23G  22G  649M  98% /var/lib/docker/overlay2/fdedf884ff42d23845087536d7d53107cd33389ffd804beebd368e2242c34bcd/merged
overlay                  23G  22G  649M  98% /var/lib/docker/overlay2/3f21c3190be684a55fa9c2371c255e189e7a8882fc99e31d9b0db470ee05a79f/merged
overlay                  23G  22G  649M  98% /var/lib/docker/overlay2/600ebcfc2f403185f7e7fba579df884390bf07cbc14b94320de142ae02c59d0d/merged
overlay                  23G  22G  649M  98% /var/lib/docker/overlay2/04e2509e7869222d2822d89c71b520e8be4f4d1d3950bb83e08d3d6032e24090/merged
overlay                  23G  22G  649M  98% /var/lib/docker/overlay2/33d34321ec9a2d88e97fc1295299f6c769332075eadea55e16f76b3b80390fa0/merged
tmpfs                     1.6G  4.0K  1.6G   1% /run/user/1000
```

3- Allouer la totalité de l'espace libre

(exemple pour la partition "ubuntu--vg-ubuntu--lv")

Pour ajouter à la partition, l'espace libre non alloué

lvresize -l +100%FREE /dev/mapper/ubuntu--vg-ubuntu--lv

```
root@sla-stream:/# sudo lvresize -l +100%FREE /dev/mapper/ubuntu--vg-ubuntu--lv
Size of logical volume ubuntu-vg/ubuntu-lv changed from 23.47 GiB (6009 extents) to <46.95 GiB (12018 extents).
Logical volume ubuntu-vg/ubuntu-lv successfully resized.
```

4- Redimensionner le système de fichiers

resize2fs /dev/mapper/ubuntu--vg-ubuntu--lv

```
root@sla-stream:/# resize2fs /dev/mapper/ubuntu--vg-ubuntu--lv
resize2fs 1.47.0 (5-Feb-2023)
Filesystem at /dev/mapper/ubuntu--vg-ubuntu--lv is mounted on /; on-line resizing required
old_desc_blocks = 3, new_desc_blocks = 6
The filesystem on /dev/mapper/ubuntu--vg-ubuntu--lv is now 12306432 (4k) blocks long.
```

5- Controle

df -h

```
root@sla-stream:/# df -h
Filesystem                Size  Used Avail Use% Mounted on
tmpfs                     1.6G  2.7M  1.6G   1% /run
/dev/mapper/ubuntu--vg-ubuntu--lv 47G   22G   23G  49% /
tmpfs                     7.8G   0  7.8G   0% /dev/shm
tmpfs                     5.0M   0  5.0M   0% /run/lock
/dev/sda2                 2.0G  456M  1.4G  25% /boot
/dev/sda1                 1.1G  6.1M  1.1G   1% /boot/efi
/dev/sdb1                 10T   2.0T  7.5T  21% /data
overlay                   47G   22G   23G  49% /var/lib/docker/overlay2/167091490f9cabc5f004352879c79654e97abb140f226c42570a1c2f8568befa/merged
overlay                   47G   22G   23G  49% /var/lib/docker/overlay2/09158909a8ed03e6d69edea41440e204514a886b1be486069b97c4f8ea65f38c/merged
overlay                   47G   22G   23G  49% /var/lib/docker/overlay2/87f0bb23cde8d6c70a1897200c3bb3fb17d3f91028c85075371a696318faca5d/merged
overlay                   47G   22G   23G  49% /var/lib/docker/overlay2/749899245ba3c483d0c7fe35502670a8cbe1bfc4c41fb08eddc9300019def563/merged
overlay                   47G   22G   23G  49% /var/lib/docker/overlay2/bb5982f362c797d92e88d6eb9e1ad03573713ce956360cba48caabd8bde968ad/merged
overlay                   47G   22G   23G  49% /var/lib/docker/overlay2/7fd5715fad0b8e1a6625991ce89d65d46b412aec54fda45aea11a548df2da2cb/merged
overlay                   47G   22G   23G  49% /var/lib/docker/overlay2/f6b6c02d5e4f86c1253d493c3e4ea43d5ab121b5769759a98355719e1bee1382/merged
overlay                   47G   22G   23G  49% /var/lib/docker/overlay2/648ed65f785020016b370d240c9ecfb985d4a4c869a281deb262d3dc5205672/merged
overlay                   47G   22G   23G  49% /var/lib/docker/overlay2/40403a424ff7bbb47942490537cb9792bf2cf29cd52c80d91e0175f34ffb8fa/merged
overlay                   47G   22G   23G  49% /var/lib/docker/overlay2/84e4a073e41b99c7386ae23b564365c5c61f054cd422580955a92b20305697be/merged
overlay                   47G   22G   23G  49% /var/lib/docker/overlay2/fdedf884ff42d23845087536d7d53107cd33389ffd804beebd368e2242c34bcd/merged
overlay                   47G   22G   23G  49% /var/lib/docker/overlay2/3f21c3190be684a55fa9c2371c255e189e7a8882fc99e31d9bddd470ee05a79f/merged
overlay                   47G   22G   23G  49% /var/lib/docker/overlay2/600ebcfc2f403185f7e7fba579df884390bf07cbc14b94320de142ae02c59d0d/merged
overlay                   47G   22G   23G  49% /var/lib/docker/overlay2/04e2509e786922d282d89c71b520e8be4f4d1d3950bb83e08d3d6032e24090/merged
overlay                   47G   22G   23G  49% /var/lib/docker/overlay2/33d34321ec9a2d88e97fc1295299f6c769332075eadea55e16f76b3b80390fa0/merged
tmpfs                     1.6G  4.0K  1.6G   1% /run/user/1000
```

6- reboot

TOP TUTO

<https://247-it.io/ubuntu-etendre-partition-disque-lvm/>

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