

# Pré-requis / Généralités

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## Volumes simples

- [Création volume simple.](#)
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## Volumes LVM

- [Généralités LVM](#) à lire avant de lire les sous-parties.

### Création volume LVM

- [Création volume LVM sur disque.](#)
- [Création volume LVM sur partition.](#)
- [Deprecated Création FileSystem supérieur à 2To.](#)

### Augmentation volume LVM

- [Augmentation volume LVM sur disque.](#)
- [Augmentation volume LVM sur partition ExtensionPV.](#)
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### Réduction volume LVM

- [Réduction volume LVM.](#)

### Renommage de volumes

- [Renommage volume LVM.](#) Suite à une migration.

# Montage volume RAID

To mount a disk from a Synology RAID with mdadm.

- <https://michaelheap.com/mount-synology-hdd-linux>

```
# mkdir /mnt/dd
# mount /dev/sdd5 /mnt/dd
mount: /media/test: unknown filesystem type 'linux_raid_member'.
```

Unknown filesystem type? Looks like I need to create a software RAID to mount it in to!

```
# mdadm --assemble --run /dev/md0 /dev/sdd5
mdadm: /dev/sdb5 is busy - skipping
```

Busy? But it's not mounted. Let's take a look

```
# mdadm --examine /dev/sdd
/dev/sdb:
  MBR Magic : aa55
  Partition[0] : 4294967295 sectors at 1 (type ee)
```

Run `ls /dev/md` then press tab to see what auto-completes. For me, it was `/dev/md127`. Let's stop that and create a software RAID at `/dev/md0`

```
# ls /dev/md
```

```
# mdadm --stop /dev/md127
# mdadm --assemble --run /dev/md0 /dev/sdd5
mdadm: /dev/md0 has been started with 1 drive (out of 2).
```

That's correct! There were two drives and I've only provided one. Let's mount it

```
# mount /dev/md0 /mnt/dd
mount: /media/test: unknown filesystem type 'LVM2_member'.
```

Another unknown error. This is because it's an LVM volume. Let's see which are available using `vgs`

```
# vgs
VG      #PV #LV #SN Attr   VSize VFree
vg1000  1  1  0 wz--n- 5.45t  0
```

vg1000, I see you! Let's mount that volume group now

```
# mount -o ro /dev/mapper/vg1000-lv /mnt/dd
```

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Last update: **2021/01/21 21:42**

