

# Boot raspberry pi sur NVME

Après avoir ajouté un NVME à la configuration, vérifier si le disk est disponible

```
lsblk
```

```
cavallone@athena:/dev $ lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
mmcblk0     179:0    0  59.5G  0 disk
├─mmcblk0p1 179:1    0   512M  0 part /boot/firmware
└─mmcblk0p2 179:2    0    59G   0 part /
nvme0n1     259:0    0 238.5G  0 disk
nvme1n1     259:1    0 238.5G  0 disk
```

Choisir le disk à modifier, puis effectuer la commande suivante pour le partitionner

```
sudo fdisk /dev/nvme0n1
```

```
cavallone@athena:/dev $ sudo fdisk /dev/nvme0n1
Welcome to fdisk (util-linux 2.38.1).
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Device does not contain a recognized partition table.
Created a new DOS (MBR) disklabel with disk identifier 0x41882d09.

Command (m for help): |
```

Faire **N** pour skip le help puis **P** pour primary

```
Command (m for help): n
Partition type
  p   primary (0 primary, 0 extended, 4 free)
  e   extended (container for logical partitions)
Select (default p): |
```

Puis choisir votre nombre de partition

```
Partition number (1-4, default 1): |
```

On peut laisser par défaut les tailles de partitions

```
Partition number (1-4, default 1): 1
First sector (2048-500118191, default 2048):
Last sector, +/-sectors or +/-size{K,M,G,T,P} (2048-500118191, default 500118191):

Created a new partition 1 of type 'Linux' and of size 238.5 GiB.
```

Faire **W** pour quitter

```
Command (m for help): w|
```

Faire la commande suivante pour afficher notre disque

```
lsblk
```

Allez dans la configuration de raspberry

```
raspi-config
```

Allez dans advanced

```
Raspberry Pi Software Configuration Tool (raspi-config)
1 System Options      Configure system settings
2 Display Options     Configure display settings
3 Interface Options   Configure connections to peripherals
4 Performance Options Configure performance settings
5 Localisation Options Configure language and regional settings
6 Advanced Options    Configure advanced settings
8 Update              Update this tool to the latest version
9 About raspi-config  Information about this configuration tool

<Select>                                <Finish>
```

Puis boot order

```
Raspberry Pi Software Configuration Tool (raspi-config)
A1 Expand Filesystem  Ensures that all of the SD card is available
A2 Network Interface Names Enable/disable predictable network i/f names
A3 Network Proxy Settings Configure network proxy settings
A4 Boot Order          Choose SD, network, USB or NVMe device boot priority
A5 Bootloader Version  Select latest or factory default bootloader software
A6 Wayland             Switch between X and Wayland backends
A7 Audio Config        Set audio control system
A8 PCIe Speed          Set PCIe x1 port speed
A9 Network install UI  Select when to display the bootloader network-install UI
```

Et sélectionner NVME/USB boot

```
Raspberry Pi Software Configuration Tool (raspi-config)
B1 SD Card Boot  Boot from SD Card before trying NVMe and then USB (RECOMMENDED)
B2 NVMe/USB Boot Boot from NVMe before trying USB and then SD Card
B3 Network Boot  Boot from Network unless override by SD Card
```

**QUITTER ET NE PAS REDEMARRER**

On clone maintenant les données de la carte SD vers le NVME

```
sudo dd if=/dev/mmcblk0 of=/dev/nvme0n1 bs=4MB status=progress
```

```
cavallone@athena:/dev $ sudo dd if=/dev/mmcblk0 of=/dev/nvme0n1 bs=4MB status=progress
320000000 bytes (320 MB, 305 MiB) copied, 4 s, 79.0 MB/s
```

Au bout de 5~10mn la copie devrait être fini, il faut redémarrer

Vérifier la partition de démarrage au retrait de la carte SD

```
cavallone@athena:~ $ lsblk
NAME                MAJ:MIN RM   SIZE RO TYPE MOUNTPOINTS
nvme0n1             259:0    0 238.5G  0 disk
├─nvme0n1p1         259:1    0   512M  0 part /boot/firmware
└─nvme0n1p2         259:2    0    59G   0 part /
nvme1n1             259:3    0 238.5G  0 disk
└─nvme1n1p1         259:4    0     1K   0 part
```

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