

How to resize a Linux (Ubuntu) disk in Proxmox

In proxmox, ensure the VM is off and then select the VM you wish to resize the disk. Click on **Hardware**, locate and select the disk and then on top click on **Disk Action --> Resize**. In the **Resize disk** window enter the size in GB you wish to increase by and click on **Resize disk**. Next, power on the machine, login to the CLI as root and run the following commands:

```
# 1. Identify the disk device
```

```
fdisk -l
```

```
Disk /dev/sda: 650 GiB, 697932185600 bytes, 1363148800 sectors
```

```
Disk model: QEMU HARDDISK
```

```
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: 218F2D76-B023-4E53-A9A3-1C99785FF2AF
```

Device	Start	End	Sectors	Size	Type
/dev/sda1	2048	4095	2048	1M	BIOS boot
/dev/sda2	4096	1363148766	1363144671	650G	Linux filesystem

```
# 2. Grow the partition to fill the disk (note the SPACE: "sda 2", not "sda2")
```

```
sudo growpart /dev/sda 2
```

```
# 3. Grow the ext4 filesystem to fill the partition
```

```
sudo resize2fs /dev/sda2
```

```
# 4. verify
```

```
df -h
```

Filesystem	Size	Used	Avail	Use%	Mounted on
tmpfs	1.6G	2.7M	1.6G	1%	/run
/dev/sda2	639G	129G	482G	22%	/
tmpfs	7.9G	0	7.9G	0%	/dev/shm
tmpfs	5.0M	0	5.0M	0%	/run/lock

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