

# Enlarging an Ubuntu disk

First this guide is for resizing a disk that is not LVM. For that see [Resizing a disk in Proxmox that contains an LVM file system](#).

If you want to shrink a disk, please note that it is generally a bad idea because you might loose data. Proxmox does not support this either. You will have to find your own guide and do it manually.

This entire process can be done while the system is running.

- 1. Resizing in Proxmox
  - Web UI
  - CLI
- 2. Resizing in Ubuntu

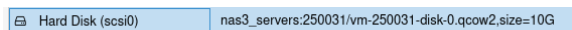
You can find more information on the wiki of Proxmox:  
[https://pve.proxmox.com/wiki/Resize\\_disks](https://pve.proxmox.com/wiki/Resize_disks)

## 1. Resizing in Proxmox

You will first need to enlarge the disk in Promox, you can either do this via the CLI or via the Web UI.

### Web UI

Open up the hardware section of your VM. Afterwards select the disk you wish to resize. In this case it is `scsi0`.

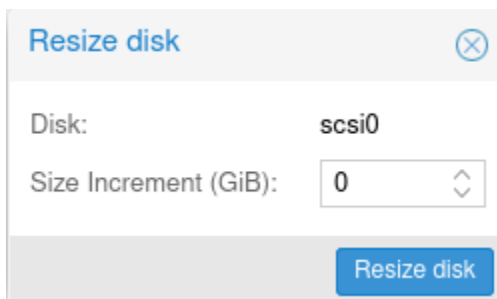


Now click on the `Resize Disk` option.



A pop up should appear asking you the incrementation value. Here you can enter the size increment. This means the size that you want to add. For example if the disk is currently 10 GB and you want it to have 50 GB total, you should enter 40 and **not** 50.

When you have selected a value click on `resize`.



### CLI

SSH into the machine on which the VM is hosted. Then enter the following:

```
qm resize <VM_ID> <DISK> <SIZE_INCREMENT>
```

For example, as in the case above.

```
qm resize 250031 scsi0 +40G
```

## 2. Resizing in Ubuntu

For resizing our disk in Ubuntu we will use `gparted`. This should be installed by default.

Identify the disk that you resized. You can do this by typing `lsblk` this will show you an overview of all block devices.

In my case it is `/dev/sda`. To open it up with `gparted` run the following

```
sudo parted /dev/sda
```

[illegible]

```
resizepart <PARTITION_NUMBER> <INCREMENT>
# For example:
resizepart 2 100%
```

```
(parted) resizepart 2 +100%
Warning: Partition /dev/sda2 is being used. Are you sure you want to continue?
Yes/No? yes
End? [10.7GB]? 100%
(parted) print
Model: QEMU QEMU HARDDISK (scsi)
Disk /dev/sda: 53.7GB
Sector size (logical/physical): 512B/512B
Partition Table: gpt
Disk Flags:

Number   Start   End     Size    File system  Name     Flags
  1       1049kB  2097kB  1049kB                bios_grub
  2       2097kB  53.7GB  53.7GB  ext4
```

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

And that's it. Your system now more space.