

# Expanding a LVM on Ubuntu 22.04

## Get Started

- Begin by opening a terminal and running the following command:

```
lvdisplay
```

This command will display the volume groups.

You should see something like this:

```
--- Logical volume ---
LV Path          /dev/ubuntu-vg/ubuntu-lv
LV Name          ubuntu-lv
VG Name          ubuntu-vg
LV UUID          elxgxf-ABCD-EFGH-IJKL-MNOP-QRst-UVWxYz
LV Write Access   read/write
LV Creation host, time ubuntu, 2023-06-27 08:00:00 +0000
LV Status        available
# open           1
LV Size          50.00 GiB
Current LE       12800
Segments         1
Allocation        inherit
Read ahead sectors    auto
 - currently set to  256
Block device      253:0
```

You can find the volume we will be expanding by looking at the `LV Path` it should be something like `/dev/ubuntu-vg/ubuntu-lv`.

- Next, you need to expand the volume. Run the following command:

```
lvextend -l +100%FREE /dev/ubuntu-vg/ubuntu-lv
```

This command will expand the volume to use all available space.

- Finally, you need to expand the filesystem. Run the following command:

```
resize2fs /dev/ubuntu-vg/ubuntu-lv
```

This command will expand the filesystem to use all available space.

# Finished

You now have a LVM that has been expanded to use all available space.

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