Ubuntu - Extend Your Default LVM Space

```
$ df -h
Filesystem                            Size  Used Avail Use% Mounted on
tmpfs                                 791M  1.2M  790M   1% /run
/dev/mapper/ubuntu--vg-ubuntu--lv      98G  7.0G   86G   8% /
tmpfs                                 3.9G     0  3.9G   0% /dev/shm
tmpfs                                 5.0M     0  5.0M   0% /run/lock
/dev/sda2                             2.0G  130M  1.7G   8% /boot
tmpfs                                 791M  4.0K  791M   1% /run/user/1000
frank@only1:/etc/netplan$ vgdisplay
  WARNING: Running as a non-root user. Functionality may be unavailable.
  /run/lock/lvm/P_global:aux: open failed: Permission denied
frank@only1:/etc/netplan$ sudo vgdisplay
[sudo] password for frank:
  --- Volume group ---
  VG Name               ubuntu-vg
  System ID
  Format                lvm2
  Metadata Areas        1
  Metadata Sequence No  2
  VG Access             read/write
  VG Status             resizable
  MAX LV                0
  Cur LV                1
  Open LV               1
  Max PV                0
  Cur PV                1
  Act PV                1
  VG Size               <929.00 GiB
  PE Size               4.00 MiB
  Total PE              237823
  Alloc PE / Size       25600 / 100.00 GiB
  Free  PE / Size       212223 / <829.00 GiB
  VG UUID               rF3fw2-13h2-kAiL-aeWA-KyDZ-5HQU-GwvKDe

frank@only1:/etc/netplan$ sudo lvdisplay
  --- Logical volume ---
  LV Path               /dev/ubuntu-vg/ubuntu-lv
  LV Name               ubuntu-lv
  VG Name               ubuntu-vg
  LV UUID               xUUIxr-wnDl-7ZNk-EQpK-gAwb-Wug0-a7JSTb
  LV Write Access       read/write
  LV Creation host, time ubuntu-server, 2023-06-28 23:21:26 +0000
  LV Status             available
  # open                1
  LV Size               100.00 GiB
  Current LE            25600
  Segments              1
```

```
  Allocation            inherit
  Read ahead sectors    auto
  - currently set to    256
  Block device          253:0
```

```
frank@only1:/etc/netplan$ cd
frank@only1:~$ sudo su
root@only1:/home/frank# cd
root@only1:~# lvextend -l +100%FREE /dev/ubuntu-vg/ubuntu-lv
  Size of logical volume ubuntu-vg/ubuntu-lv changed from 100.00 GiB (25600
extents) to <929.00 GiB (237823 extents).
  Logical volume ubuntu-vg/ubuntu-lv successfully resized.
root@only1:~#
```