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
```

```
user@svr1:~$ sudo vgdisplay
```

```
[sudo] password for user:
```

```
  --- 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
```

```
user@svr1:~$ 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
```

```
user@svr1:~$ sudo su
root@svr1:/home/user# cd
root@svr1:~#
```

```
root@svr1:~# 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:~#
```

Run lvdisplay once more to verify that that the logical volume was successfully resized.

```
root@only1:~# 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                <929.00 GiB
  Current LE             237823
  Segments               1
  Allocation             inherit
  Read ahead sectors     auto
  - currently set to     256
  Block device           253:0

root@only1:~#
```