

Disk Root Partition

df -h disk

```
root@test:~# df -h
Filesystem                Size      Used Avail Use% Mounted on
udev                     1.9G         0   1.9G   0% /dev
tmpfs                    389M       900K   388M   1% /run
/dev/mapper/ubuntu--vg-ubuntu--lv 49G       6.3G    40G  14% /
tmpfs                    1.9G         0   1.9G   0% /dev/shm
tmpfs                    5.0M         0   5.0M   0% /run/lock
tmpfs                    1.9G         0   1.9G   0% /sys/fs/cgroup
/dev/loop0                56M        56M     0 100% /snap/core18/2128
/dev/loop1                71M        71M     0 100% /snap/lxd/21029
/dev/loop2                33M        33M     0 100% /snap/snapd/12704
/dev/sda2                 976M      107M    802M  12% /boot
/dev/sda1                 511M       5.3M    506M   2% /boot/efi
/dev/loop3                56M        56M     0 100% /snap/core18/2246
/dev/loop4                33M        33M     0 100% /snap/snapd/13640
/dev/loop5                62M        62M     0 100% /snap/core20/1169
tmpfs                    389M         0   389M   0% /run/user/0
/dev/loop6                68M        68M     0 100% /snap/lxd/21835
root@test:~#
```

vgdisplay Volume Group

```
root@test:~# vgdisplay
--- 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                 <98.50 GiB
PE Size                  4.00 MiB
Total PE                 25215
Alloc PE / Size          12608 / 49.25 GiB
Free PE / Size            12607 / <49.25 GiB
VG UUID                 aawC0E-hjBV-B5FG-TvwM-5iM3-jcGa-3QU2zf
root@test:~#
```

Logical Volumn lvdisplay lvextend -l +100%FREE /d

```

root@test:~# lvsdisplay
--- Logical volume ---
LV Path                /dev/ubuntu-vg/ubuntu-lv
LV Name                 ubuntu-lv
VG Name                 ubuntu-vg
LV UUID                 hIKHcl-VBar-e0w0-9cro-9Usa-pgYv-uanFOv
LV Write Access         read/write
LV Creation host, time  ubuntu-server, 2021-11-11 17:52:56 +0000
LV Status                available
# open                  1
LV Size                  49.25 GiB
Current LE               12608
Segments                1
Allocation               inherit
Read ahead sectors      auto
- currently set to      256
Block device             253:0

root@test:~#
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root@test:~# lvextend -l +100%FREE /dev/ubuntu-vg/ubuntu-lv
Size of logical volume ubuntu-vg/ubuntu-lv changed from 49.25 GiB (12608 exten.
Logical volume ubuntu-vg/ubuntu-lv successfully resized.
root@test:~#
root@test:~#
root@test:~# lvsdisplay
--- Logical volume ---
LV Path                /dev/ubuntu-vg/ubuntu-lv
LV Name                 ubuntu-lv
VG Name                 ubuntu-vg
LV UUID                 hIKHcl-VBar-e0w0-9cro-9Usa-pgYv-uanFOv
LV Write Access         read/write
LV Creation host, time  ubuntu-server, 2021-11-11 17:52:56 +0000
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Current LE               25215
Segments                1
Allocation               inherit
Read ahead sectors      auto
- currently set to      256
Block device             253:0

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```

resize2fs /dev/mapper/ubuntu--vg-ubuntu--lv resize2fs /dev/mapper/ubuntu--vg-ubun
 filesystem df -h Disk Root partition

```

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udev                     1.9G         0  1.9G   0% /dev
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/dev/mapper/ubuntu--vg-ubuntu--lv 49G       6.3G   40G  14% /
tmpfs                    1.9G         0  1.9G   0% /dev/shm
tmpfs                    5.0M         0   5.0M   0% /run/lock
tmpfs                    1.9G         0  1.9G   0% /sys/fs/cgroup
/dev/loop0                56M        56M     0 100% /snap/core18/2128
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tmpfs                    389M         0  389M   0% /run/user/0
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root@test:~#
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root@test:~# resize2fs /dev/mapper/ubuntu--vg-ubuntu--lv
resize2fs 1.45.5 (07-Jan-2020)
Filesystem at /dev/mapper/ubuntu--vg-ubuntu--lv is mounted on /; on-line resizing required
old_desc_blocks = 7, new_desc_blocks = 13
The filesystem on /dev/mapper/ubuntu--vg-ubuntu--lv is now 25820160 (4k) blocks.

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tmpfs                    389M       900K  388M   1% /run
/dev/mapper/ubuntu--vg-ubuntu--lv 97G       6.3G   87G   7% /
tmpfs                    1.9G         0  1.9G   0% /dev/shm
tmpfs                    5.0M         0   5.0M   0% /run/lock
tmpfs                    1.9G         0  1.9G   0% /sys/fs/cgroup
/dev/loop0                56M        56M     0 100% /snap/core18/2128
/dev/loop1                71M        71M     0 100% /snap/lxd/21029
/dev/loop2                33M        33M     0 100% /snap/snapd/12704
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tmpfs                    389M         0  389M   0% /run/user/0
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```

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