

# Ubuntu 22

- [\[Disk Root Partition\]](#)

# 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 lvdiskdisplay 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:~#
root@test:~#
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
LV Status                available
# open                  1
LV Size                 <98.50 GiB
Current LE              25215
Segments                1
Allocation              inherit
Read ahead sectors      auto
- currently set to     256
Block device            253:0

root@test:~#

```

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

```
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:~#
```

```
root@test:~#
```

```
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
```

```
old_desc_blocks = 7, new_desc_blocks = 13
```

```
The filesystem on /dev/mapper/ubuntu--vg-ubuntu--lv is now 25820160 (4k) blocks
```

```
root@test:~#
```

```
root@test:~#
```

```
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	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
/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:~#
```