

Resize/Grow LVM-volume

Firstly show all available LVMs:

```
lvdisplay
```

The output might look like this:

```

--- Logical volume ---
LV Path                /dev/pve/swap
LV Name                 swap
VG Name                 pve
LV UUID                 U1Mc2n-WRuL-P8Li-yIb6-AXN8-ueDd-oYfw0u
LV Write Access         read/write
LV Creation host, time proxmox, 2023-08-19 09:49:14 +0200
LV Status                available
# open                  2
LV Size                 8.00 GiB
Current LE              2048
Segments                1
Allocation              inherit
Read ahead sectors      auto
- currently set to     256
Block device            252:0

--- Logical volume ---
LV Path                /dev/pve/root
LV Name                 root
VG Name                 pve
LV UUID                 IPbLTf-3SnK-ECmv-ABqX-Wet7-c66F-UfBYT3
LV Write Access         read/write
LV Creation host, time proxmox, 2023-08-19 09:49:14 +0200
LV Status                available
# open                  1
LV Size                 96.00 GiB
Current LE              24576
Segments                1
Allocation              inherit
Read ahead sectors      auto
- currently set to     256
Block device            252:1

```

Then use lsblk to view free space:

| NAME | MAJ:MIN | RM | SIZE | RO | TYPE | MOUNTPPOINTS |
|-------|---------|----|------|----|------|--------------|
| loop0 | 7:0 | 0 | 8G | 0 | loop | |
| loop1 | 7:1 | 0 | 8G | 0 | loop | |
| loop2 | 7:2 | 0 | 8G | 0 | loop | |
| loop3 | 7:3 | 0 | 16G | 0 | loop | |

```
nvme0n1      259:0    0 476.9G    0 disk
├─nvme0n1p1  259:1    0  1007K    0 part
├─nvme0n1p2  259:2    0    1G      0 part  /boot/efi
└─nvme0n1p3  259:3    0 475.9G    0 part
    └─pve-swap 252:0    0    8G      0 lvm  [SWAP]
        └─pve-root 252:1    0    96G     0 lvm  /
```

Now extend the volume with `lvextend`, 200G is the new size of the volume:

```
lvextend -L 200G /dev/pve/root
```

Finally resize the filesystem:

```
resize2fs /dev/pve/root
```

From:

<http://fixes.brecht-schule.hamburg/> - Fixes | Public BIT Wiki

Permanent link:

<http://fixes.brecht-schule.hamburg/linux/debian/proxmox/resize-lvs>

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