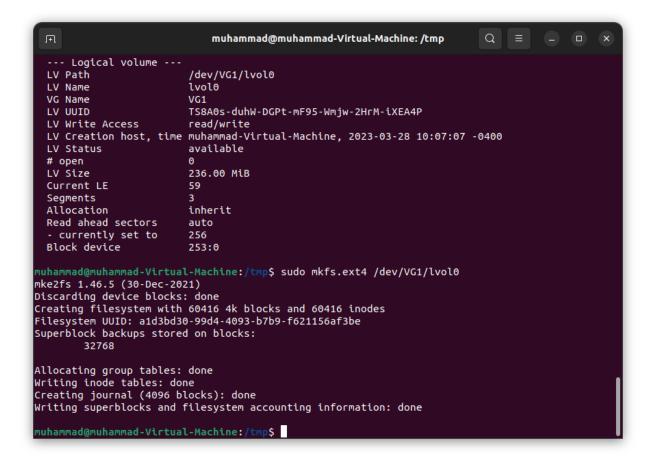
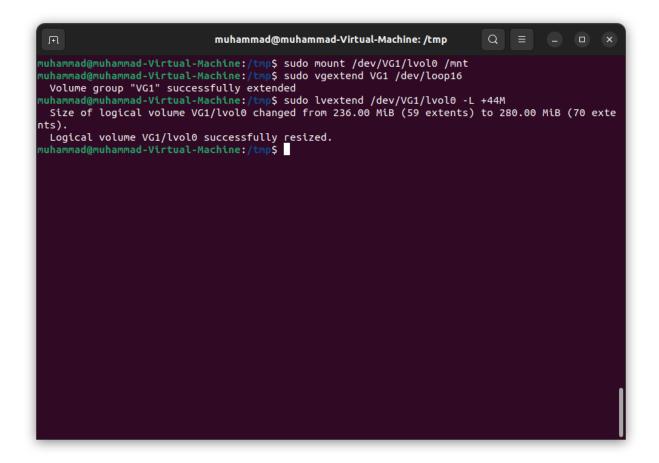
LVM

```
muhammad@muhammad-Virtual-Machine: /tmp
                                                                                             Q =
/dev/loop12
muhammad@muhammad-Virtual-Machine:/tmp$
muhammad@muhammad-Virtual-Machine:/tmp$ dd if=/dev/zero of=disk1.disk bs=1024 count=100000
100000+0 records in
100000+0 records out
102400000 bytes (102 MB, 98 MiB) copied, 1.69797 s, 60.3 MB/s
muhammad@muhammad-Virtual-Machine:/tmp$ dd if=/dev/zero of=disk2.disk bs=1024 count=100000
100000+0 records in
100000+0 records out
102400000 bytes (102 MB, 98 MiB) copied, 1.88997 s, 54.2 MB/s
muhammad@muhammad-Virtual-Machine:/tmp$ dd if=/dev/zero of=disk3.disk bs=1024 count=50000
50000+0 records in
50000+0 records out
51200000 bytes (51 MB, 49 MiB) copied, 0.790905 s, 64.7 MB/s
muhammad@muhammad-Virtual-Machine:/tmp$ dd if=/dev/zero of=disk4.disk bs=1024 count=50000
50000+0 records in
50000+0 records out
51200000 bytes (51 MB, 49 MiB) copied, 0.819383 s, 62.5 MB/s
muhammad@muhammad-Virtual-Machine:/tmp$ sudo losetup -f
/dev/loop13
muhammad@muhammad-Virtual-Machine:/tmp$ sudo losetup /dev/loop13 disk1.disk
muhammad@muhammad-Virtual-Machine:/tmp$ sudo losetup /dev/loop14 disk2.disk
muhammad@muhammad-Virtual-Machine:/tmp$ sudo losetup /dev/loop15 disk3.disk
muhammad@muhammad-Virtual-Machine:/tmp$ sudo losetup /dev/loop16 disk4.disk
muhammad@muhammad-Virtual-Machine:/tmp$ sudo losetup -a
/dev/loop1: [2049]:803296 (/var/lib/snapd/snaps/core20_1434.snap)
/dev/loop8: [2049]:792262 (/var/lib/snapd/snaps/snapd_18596.snap)
/dev/loop15: [2049]:3221 (/tmp/disk3.disk)
/dev/loop6: [2049]:803297 (/var/lib/snapd/snaps/snapd_15534.snap)
/dev/loop13: [2049]:2392 (/tmp/disk1.disk)
/dev/loop4: [2049]:803299 (/var/lib/snapd/snaps/gtk-common-themes_1519.snap)
```

```
muhammad@muhammad-Virtual-Machine: /tmp
  rdate thin-provisioning-tools
Use 'sudo apt autoremove' to remove them.
The following NEW packages will be installed:
  net-tools
O upgraded, 1 newly installed, O to remove and 52 not upgraded.
Need to get 204 kB of archives.
After this operation, 819 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu jammy/main amd64 net-tools amd64 1.60+git20181103.0eebe
ce-1ubuntu5 [204 kB]
Fetched 204 kB in 11s (19.2 kB/s)
Selecting previously unselected package net-tools.
(Reading database ... 210496 files and directories currently installed.)
Preparing to unpack .../net-tools_1.60+git20181103.0eebece-1ubuntu5_amd64.deb ...
Unpacking net-tools (1.60+git20181103.0eebece-1ubuntu5) ...
Setting up net-tools (1.60+git20181103.0eebece-1ubuntu5) ...
Processing triggers for man-db (2.10.2-1) ...
muhammad@muhammad-Virtual-Machine:/tmp$ pv create /dev/loop13
Command 'pv' not found, but can be installed with:
sudo apt install pv
muhammad@muhammad-Virtual-Machine:/tmp$ pvcreate /dev/loop13
  WARNING: Running as a non-root user. Functionality may be unavailable.
  /run/lock/lvm/P_global:aux: open failed: Permission denied
 nuhammad@muhammad-Virtual-Machine:/tmp$ sudo pvcreate /dev/loop13
  Physical volume "/dev/loop13" successfully created.
 uhammad@muhammad-Virtual-Machine:/tmp$ sudo pvcreate /dev/loop14
 Physical volume "/dev/loop14" successfully created.
nuhammad@muhammad-Virtual-Machine:/tmp$ sudo pvcreate /dev/loop15
  Physical volume "/dev/loop15" successfully created.
 uhammad@muhammad-Virtual-Machine:/tmp$ sudo pvcreate /dev/loop16
 Physical volume "/dev/loop16" successfully created. uhammad@muhammad-Virtual-Machine:/tmp$
```

```
muhammad@muhammad-Virtual-Machine: /tmp
nuhammad@muhammad-Virtual-Machine:/tmp$ sudo vgcreate VG1 /dev/loop13 /dev/loop14 /dev/loop15
 Volume group "VG1" successfully created
muhammad@muhammad-Virtual-Machine:/tmp$ sudo lvcreate -L 236M VG1
Logical volume "lvol0" created.
muhammad@muhammad-Virtual-Machine:/tmp$ sudo vgdisplay
 --- Volume group ---
 VG Name
                            VG1
 System ID
                            lvm2
 Format
 Metadata Areas
 Metadata Sequence No 2
                            read/write
 VG Access
 VG Status
                            resizable
 MAX LV
 Cur LV
 Open LV
                            0
 Max PV
                            0
 Cur PV
 Act PV
 VG Size
                            236.00 MiB
 PE Size
                            4.00 MiB
 Total PE
 Alloc PE / Size
Free PE / Size
                            59 / 236.00 MiB
0 / 0
Yfbcwn-zvFh-jwiT-XibS-CJW4-PWbb-Kpc3l3
 VG UUID
nuhammad@muhammad-Virtual-Machine:/tmp$ sudo lvdisplay
 --- Logical volume ---
                             /dev/VG1/lvol0
lvol0
 LV Path
 LV Name
 VG Name
                             VG1
```





Network

