

# Lab-1

## 1-LVM

### Before extend size of logical volume

```
--- Logical volume ---
LV Path                /dev/VG/LV
LV Name                 LV
VG Name                VG
LV UUID                85xajf-MNfK-THL7-QNmV-4Mwc-BByD-QRhOs0
LV Write Access        read/write
LV Creation host, time ubuntu-18, 2023-03-28 12:51:40 +0200
LV Status              available
# open                 1
LV Size                252.00 MiB
Current LE             63
Segments              3
Allocation             inherit
Read ahead sectors     auto
  - currently set to  256
Block device           253:0
```

```
yossef@ubuntu-18:/tmp$ sudo lvextend -L +50 /dev/VG/LV
```

### after extend size of logical volume

```
yossef@ubuntu-18:/tmp$ sudo lvdisplay
WARNING: Failed to connect to lvmetad. Falling back to device scanning.
--- Logical volume ---
LV Path                /dev/VG/LV
LV Name                 LV
VG Name                VG
LV UUID                85xajf-MNfK-THL7-QNmV-4Mwc-BByD-QRhOs0
LV Write Access        read/write
LV Creation host, time ubuntu-18, 2023-03-28 12:51:40 +0200
LV Status              available
# open                 1
LV Size                304.00 MiB
Current LE             76
Segments              4
Allocation             inherit
Read ahead sectors     auto
  - currently set to  256
Block device           253:0
```

```
yossef@ubuntu-18:/tmp$
```

## 2-Network

### Display network interface

```
yossef@ubuntu-18:~$ ip addr
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:3a:2e:1e brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3
        valid_lft 80554sec preferred_lft 80554sec
    inet6 fe80::5d6e:3096:3:89c9/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
yossef@ubuntu-18:~$
```

### Active tcp connections on OS

```
yossef@ubuntu-18:~$ netstat -atp
(Not all processes could be identified, non-owned process info
 will not be shown, you would have to be root to see it all.)
Active Internet connections (servers and established)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
PID/Program name
tcp        0      0 localhost:27017         0.0.0.0:*               LISTEN
-
tcp        0      0 localhost:domain       0.0.0.0:*               LISTEN
-
tcp        0      0 localhost:ipp          0.0.0.0:*               LISTEN
-
tcp        0      0 ubuntu-18:53962        84.170.224.35.bc.g:http TIME_WAIT
-
tcp6       0      0 [::]:http              [::]:*                  LISTEN
-
tcp6       0      0 ip6-localhost:ipp     [::]:*                  LISTEN
-
tcp6       0      0 [::]:https              [::]:*                  LISTEN
-
```

## Current open ports on OS using nmap

```
yossef@ubuntu-18:~$ nmap localhost
```

```
Starting Nmap 7.60 ( https://nmap.org ) at 2023-03-28 14:08 EET
```

```
Nmap scan report for localhost (127.0.0.1)
```

```
Host is up (0.00026s latency).
```

```
Not shown: 997 closed ports
```

```
PORT      STATE SERVICE
```

```
80/tcp    open  http
```

```
443/tcp   open  https
```

```
631/tcp   open  ipp
```

```
Nmap done: 1 IP address (1 host up) scanned in 0.23 seconds
```

```
yossef@ubuntu-18:~$
```