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# Linux Command Manual

*A Comprehensive Guide to Essential Linux Commands*

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## 1. File System Navigation & Management

### 1. pwd

- a. Definition: Print the current working directory.
- b. Example:

```
cyril@cyril-VirtualBox:~/Downloads$ pwd
/home/cyril/Downloads
```

### 2. ls

- a. Definition: List files/directories. (ls -l for details, ls -a for hidden files).
- b. Example:

```
cyril@cyril-VirtualBox:~$ ls
100loop.sh      Desktop      file3.txt     Public       testfile4.sh
argument.sh     Documents   iterateOverFiles.sh  snap        testfile.sh
busTicketSim.sh Downloads   Music         Templates    testfile.txt
check_number.sh file1.txt   Pictures      testfile2.sh TestFolder
cyril.sh        file2.txt  process_files.sh testfile3.sh Videos
cyril@cyril-VirtualBox:~$
```

### 3. cd

- a. Definition: Change directory. (cd ~ for home, cd .. to move up).
- b. Example:
- c.

### 4. mkdir

- a. Definition: Create a directory.
- b. Example:

```
cyril@cyril-VirtualBox:~/Downloads$ mkdir new_directory
cyril@cyril-VirtualBox:~/Downloads$ ls
new_directory
cyril@cyril-VirtualBox:~/Downloads$
```

### 5. rmdir

- a. Definition: Remove an empty directory.
- b. Example:

```
cyril@cyril-VirtualBox:~/Downloads$ rmdir new_directory
cyril@cyril-VirtualBox:~/Downloads$ ls
cyril@cyril-VirtualBox:~/Downloads$
```

### 6. rm

- a. Definition: Delete files/dirs. (rm -r for recursive deletion).
- b. Example:

```

cyril@cyril-VirtualBox:~$ rm new_file.txt
cyril@cyril-VirtualBox:~$ ls
100loop.sh      Desktop      file3.txt      Public        testfile4.sh
argument.sh     Documents   iterateOverFiles.sh  snap          testfile.sh
busTicketSim.sh Downloads   Music          Templates     testfile.txt
check_number.sh file1.txt   Pictures       testfile2.sh  TestFolder
cyril.sh        file2.txt  process_files.sh testfile3.sh  Videos
cyril@cyril-VirtualBox:~$

```

c.

7. **cp**

a. Definition: Copy files/dirs. (cp -r for directories).

b. Example:

```

cyril@cyril-VirtualBox:~$ ls
100loop.sh      Documents    file2.txt      Public        testfile.sh
argument.sh     Downloads   file3.txt      snap          testfile.txt
busTicketSim.sh dummy_dir    iterateOverFiles.sh  Templates     TestFolder
check_number.sh dummy_dir2   Music          testfile2.sh  Videos
cyril.sh        dummy_file.txt Pictures       testfile3.sh
Desktop         file1.txt   process_files.sh testfile4.sh
cyril@cyril-VirtualBox:~$ cp dummy_file.txt dummy_file2.txt
cyril@cyril-VirtualBox:~$ ls
100loop.sh      Desktop      dummy_file2.txt  iterateOverFiles.sh  snap          testfile.sh
argument.sh     Documents    dummy_file.txt   Music               Templates     testfile.txt
busTicketSim.sh Downloads   file1.txt        Pictures            testfile2.sh  TestFolder
check_number.sh dummy_dir    file2.txt        process_files.sh    testfile3.sh  Videos
cyril.sh        dummy_dir2  file3.txt        Public              testfile4.sh
cyril@cyril-VirtualBox:~$

```

c.

8. **mv**

a. Definition: Move/rename files/dirs.

b. Example:

```

cyril@cyril-VirtualBox:~$ ls
100loop.sh      Desktop      dummy_file2.txt  iterateOverFiles.sh  snap          testfile.sh
argument.sh     Documents    dummy_file.txt   Music               Templates     testfile.txt
busTicketSim.sh Downloads   file1.txt        Pictures            testfile2.sh  TestFolder
check_number.sh dummy_dir    file2.txt        process_files.sh    testfile3.sh  Videos
cyril.sh        dummy_dir2  file3.txt        Public              testfile4.sh
cyril@cyril-VirtualBox:~$ mv dummy_file2.txt notsodummy_file.txt
cyril@cyril-VirtualBox:~$ ls
100loop.sh      Documents    file2.txt        process_files.sh    testfile4.sh
argument.sh     Downloads   file3.txt        Public              testfile.sh
busTicketSim.sh dummy_dir    iterateOverFiles.sh  snap               testfile.txt
check_number.sh dummy_dir2   Music             Templates           TestFolder
cyril.sh        dummy_file.txt notsodummy_file.txt testfile2.sh        Videos
cyril@cyril-VirtualBox:~$

```

c.

9. **touch**

a. Definition: Create an empty file or update timestamps.

b. Example:

```

cyril@cyril-VirtualBox:~$ touch new_file.txt
cyril@cyril-VirtualBox:~$ ls
100loop.sh      Desktop      file3.txt        process_files.sh    testfile3.sh  Videos
argument.sh     Documents   iterateOverFiles.sh  Public              testfile4.sh
busTicketSim.sh Downloads   Music             snap                testfile.sh
check_number.sh file1.txt   new_file.txt       Templates           testfile.txt
cyril.sh        file2.txt  Pictures          testfile2.sh        TestFolder
cyril@cyril-VirtualBox:~$

```

c.

10. **find**

a. Definition: Search for files/dirs. (find /home -name "\*.txt").

b. Example:

```
cyril@cyril-VirtualBox:~$ find /home -name dummy_file.txt
/home/cyril/dummy_file.txt
cyril@cyril-VirtualBox:~$
```

c.

**11. locate**

- a. Definition: Quickly finds files using a prebuilt database (update with updatedb).
- b. Example:

```
cyril@cyril-VirtualBox:~$ locate dummy_file.txt
/home/cyril/dummy_file.txt
/home/cyril/notesdummy_file.txt
cyril@cyril-VirtualBox:~$
```

c.

**2. File Content & Text Processing****12. cat**

- a. Definition: Display file content.
- b. Example:

```
cyril@cyril-VirtualBox:~$ cat dummy_file.txt
Hello! :D
cyril@cyril-VirtualBox:~$
```

c.

**13. head**

- a. Definition: Show first 10 lines of a file (head -n 5 for 5 lines).
- b. Example:

```
cyril@cyril-VirtualBox:~$ head stuff.txt
Phone
Wallet
Book
Desktop
Laptop
iPhone
Samsung
Frame
Wall
Door
```

c.

**14. tail**

- a. Definition: Show last 10 lines (tail -f for real-time logs).
- b. Example:

```
cyril@cyril-VirtualBox:~$ tail stuff.txt
Frame
Wall
Door
Bottle
Water
Food
Nuggets
Money
Bank
Card
cyril@cyril-VirtualBox:~$
```

c.

### 15. Grep

- Definition: Search text patterns. (grep "error" file.log).
- Example:

```
cyril@cyril-VirtualBox:~$ grep "error" /var/log/syslog
2025-05-17T09:03:41.994808+08:00 cyril-VirtualBox gnome-shell[2380]: MESA: error: ZINK: failed to choose pdev
2025-05-17T09:03:57.369328+08:00 cyril-VirtualBox tracker-miner-fs-3[2461]: (tracker-extract-3:2461): GLib-GIO-WARNING **:
09:03:57.368: Error creating IO channel for /proc/self/mountinfo: Invalid argument (g-io-error-quark, 13)
grep: /var/log/syslog: binary file matches
cyril@cyril-VirtualBox:~$
```

c.

## 3. Users, Groups & Permissions

### 16. useradd

- Definition: Create user (useradd -m username).
- Example:

```
cyril@cyril-VirtualBox:~$ sudo useradd -m John
[sudo] password for cyril:
cyril@cyril-VirtualBox:~$
```

c.

### 17. usermod

- Definition: Modify user (usermod -aG group user).
- Example:

```
cyril@cyril-VirtualBox:~$ sudo usermod -aG administrator John
cyril@cyril-VirtualBox:~$
```

c.

### 18. userdel

- Definition: Delete user (userdel -r username).
- Example:

```
cyril@cyril-VirtualBox:~$ sudo userdel John
cyril@cyril-VirtualBox:~$
```

c.

### passwd

- Change password.

- e. Example:

```
cyril@cyril-VirtualBox:~$ passwd
Changing password for cyril.
Current password:
New password:
Retype new password:
passwd: password updated successfully
cyril@cyril-VirtualBox:~$
```

- f.

#### 19. groupadd

- a. Definition: Create group.  
b. Example:

```
cyril@cyril-VirtualBox:~$ sudo groupadd modder
cyril@cyril-VirtualBox:~$
```

- c.

#### 20. groupdel

- a. Definition: Delete group.  
b. Example:

```
cyril@cyril-VirtualBox:~$ sudo groupdel solder
cyril@cyril-VirtualBox:~$
```

- c.

#### 21. groupmod

- a. Definition: Modify a group (e.g., rename).  
b. Example:

```
cyril@cyril-VirtualBox:~$ sudo groupmod -n solder modder
cyril@cyril-VirtualBox:~$
```

- c.

#### 22. gpasswd

- a. Definition: Manage group passwords/members.  
i. gpasswd -a username groupname (add user to group)  
ii. gpasswd -d username groupname (remove user from group)  
b. Example:

```
cyril@cyril-VirtualBox:~$ sudo gpasswd -a John solder
Adding user John to group solder
cyril@cyril-VirtualBox:~$
```

- c.

#### 23. chmod

- a. Definition: Change permissions (chmod 755 file).  
b. Example:

```
cyril@cyril-VirtualBox:~$ sudo chmod 755 stuff.txt
cyril@cyril-VirtualBox:~$
```

- c.

#### 24. chown

- a. Definition: Change owner (chown user:group file).  
b. Example:

```
cyril@cyril-VirtualBox:~$ sudo chown Voimiya:administrator stuff.txt
cyril@cyril-VirtualBox:~$
```

- c.

#### 25. chgrp

- a. Definition: Change group ownership.  
b. Example:

```
cyril@cyril-VirtualBox:~$ chgrp adm stuff.txt
cyril@cyril-VirtualBox:~$
```

C.

26. **umask**

a. Definition: Set default file permissions.

b. Example:

```
cyril@cyril-VirtualBox:~$ umask 755
cyril@cyril-VirtualBox:~$ S
```

c.

## 4. Compression & Archiving

27. **tar**a. Definition: Archive files (`tar -cvf archive.tar dir/`).

b. Example:

```
cyril@cyril-VirtualBox:~$ sudo tar -cvf archive.tar testdummy.txt
testdummy.txt
```

c.

```
cyril@cyril-VirtualBox:~$ ls
100loop.sh      cyril.sh      dummy_dir2    iterateOverFiles.sh  Public      testtest.txt.gz  testfile.txt
archive.tar     Desktop      dummy_file.txt  Music                snap        testfile2.sh     TestFolder
argument.sh     Documents    file1.txt      notsodummy_file.txt  stuff.txt   testfile3.sh     Videos
busTicketsSim.sh Downloads    file2.txt      Pictures              Templates   testfile4.sh
check_number.sh dummy_dir    file3.txt      process_files.sh      testdummy.txt testfile.sh
cyril@cyril-VirtualBox:~$
```

d.

28. **gzip**a. Definition: Compress files (`gzip file → file.gz`).

b. Example:

```
cyril@cyril-VirtualBox:~$ sudo gzip testtest.txt
cyril@cyril-VirtualBox:~$ ls
100loop.sh      cyril.sh      dummy_dir2    iterateOverFiles.sh  Public      testtest.txt.gz  testfile.txt
archive.tar     Desktop      dummy_file.txt  Music                snap        testfile2.sh     TestFolder
argument.sh     Documents    file1.txt      notsodummy_file.txt  stuff.txt   testfile3.sh     Videos
busTicketsSim.sh Downloads    file2.txt      Pictures              Templates   testfile4.sh
check_number.sh dummy_dir    file3.txt      process_files.sh      testdummy.txt testfile.sh
cyril@cyril-VirtualBox:~$
```

c.

29. **gunzip**

a. Definition: Decompress .gz files.

b. Example:

```
cyril@cyril-VirtualBox:~$ sudo gunzip testtest.txt.gz
cyril@cyril-VirtualBox:~$ ls
100loop.sh      cyril.sh      dummy_dir2    iterateOverFiles.sh  Public      testtest.txt  testfile.txt
archive.tar     Desktop      dummy_file.txt  Music                snap        testfile2.sh  TestFolder
argument.sh     Documents    file1.txt      notsodummy_file.txt  stuff.txt   testfile3.sh  Videos
busTicketsSim.sh Downloads    file2.txt      Pictures              Templates   testfile4.sh
check_number.sh dummy_dir    file3.txt      process_files.sh      testdummy.txt testfile.sh
cyril@cyril-VirtualBox:~$
```

c.

30. **zip**a. Definition: Create ZIP archives (`zip archive.zip files/`).

b. Example:



```

cyril@cyril-VirtualBox:~$ sudo zip archive_test.zip testtest.txt
adding: testtest.txt (stored 0%)
cyril@cyril-VirtualBox:~$ ls
100loop.sh      check_number.sh  dummy_dir      file3.txt       process_files.sh  testdummy.txt  testfile.sh
archive.tar     cyril.sh         dummy_dir2     iterateOverFiles.sh  Public           testtest.txt   testfile.txt
archive_test.zip Desktop          dummy_file.txt Music           snap             testfile2.sh   TestFolder
argument.sh     Documents        file1.txt      notsodummy_file.txt stuff.txt        testfile3.sh   Videos
busTicketSim.sh Downloads       file2.txt      Pictures        Templates        testfile4.sh

```

c.

## 31. unzip

- Definition: Extract ZIP files.
- Example:

```

cyril@cyril-VirtualBox:~$ sudo unzip archive_test.zip
Archive:  archive_test.zip
replace testtest.txt? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
extracting: testtest.txt
cyril@cyril-VirtualBox:~$ ls
100loop.sh      check_number.sh  dummy_dir      file3.txt       process_files.sh  testdummy.txt  testfile.sh
archive.tar     cyril.sh         dummy_dir2     iterateOverFiles.sh  Public           testtest.txt   testfile.txt
archive_test.zip Desktop          dummy_file.txt Music           snap             testfile2.sh   TestFolder
argument.sh     Documents        file1.txt      notsodummy_file.txt stuff.txt        testfile3.sh   Videos
busTicketSim.sh Downloads       file2.txt      Pictures        Templates        testfile4.sh

```

c.

## 5. Networking

## 32. ping

- Definition: Test connectivity (ping [google.com](https://www.google.com)).
- Example:

```

cyril@cyril-VirtualBox:~$ ping google.com
PING google.com (142.251.221.46) 56(84) bytes of data:
64 bytes from mnl08s03-in-f14.1e100.net (142.251.221.46): icmp_seq=1 ttl=255 time=7.61 ms
64 bytes from mnl08s03-in-f14.1e100.net (142.251.221.46): icmp_seq=2 ttl=255 time=6.56 ms
64 bytes from mnl08s03-in-f14.1e100.net (142.251.221.46): icmp_seq=3 ttl=255 time=6.22 ms
64 bytes from mnl08s03-in-f14.1e100.net (142.251.221.46): icmp_seq=4 ttl=255 time=6.38 ms
64 bytes from mnl08s03-in-f14.1e100.net (142.251.221.46): icmp_seq=5 ttl=255 time=7.74 ms
^Z
[1]+  Stopped                  ping google.com

```

c.

## 33. ifconfig

- Definition: Network interfaces (use `ip addr` on newer systems).
- Example:

```

cyril@cyril-VirtualBox:~$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
    inet6 fe80::a8c3:9d1:558d:2ef6 prefixlen 64 scopeid 0x20<link>
    inet6 fd00::f818:dc7:c62:e74f prefixlen 64 scopeid 0x0<global>
    inet6 fd00::2cf8:9220:a24:57f prefixlen 64 scopeid 0x0<global>
    ether 08:00:27:3c:7c:02 txqueuelen 1000 (Ethernet)
    RX packets 145 bytes 66990 (66.9 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 219 bytes 33740 (33.7 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 132 bytes 11753 (11.7 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 132 bytes 11753 (11.7 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

```

c.

## 34. Ifonfic enp0s3

- a. Definition: Show specific info of 1 interface
- b. Example:

```
cyril@cyril-VirtualBox:~$ ifconfig enp0s3
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
    inet6 fe80::a8c3:9d1:558d:2ef6 prefixlen 64 scopeid 0x20<link>
    inet6 fd00::f818:dc7:c62:e74f prefixlen 64 scopeid 0x0<global>
    inet6 fd00::2cf8:9220:a24:57f prefixlen 64 scopeid 0x0<global>
    ether 08:00:27:3c:7c:02 txqueuelen 1000 (Ethernet)
    RX packets 145 bytes 66990 (66.9 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 219 bytes 33740 (33.7 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

- c. `cyril@cyril-VirtualBox:~$`

### 35. `sudo ifconfig [interface] [IP]`

- a. Definition: Assign a static IP address to an interface.
- b. Example:

```
cyril@cyril-VirtualBox:~$ sudo ifconfig enp0s3 103.244.193.14
cyril@cyril-VirtualBox:~$ ifconfig enp0s3
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 103.244.193.14 netmask 255.0.0.0 broadcast 103.255.255.255
    inet6 fe80::a8c3:9d1:558d:2ef6 prefixlen 64 scopeid 0x20<link>
    inet6 fd00::f818:dc7:c62:e74f prefixlen 64 scopeid 0x0<global>
    inet6 fd00::2cf8:9220:a24:57f prefixlen 64 scopeid 0x0<global>
    ether 08:00:27:3c:7c:02 txqueuelen 1000 (Ethernet)
    RX packets 147 bytes 67144 (67.1 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 223 bytes 34084 (34.0 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

- c. `cyril@cyril-VirtualBox:~$`

### 36. `sudo ifconfig [interface] down`

- a. Definition: Disable a network interface.
- b. Example:

```
cyril@cyril-VirtualBox:~$ sudo ifconfig enp0s3 down
cyril@cyril-VirtualBox:~$ ifconfig enp0s3
enp0s3: flags=4098<BROADCAST,MULTICAST> mtu 1500
    inet 103.244.193.14 netmask 255.0.0.0 broadcast 103.255.255.255
    inet6 fe80::a8c3:9d1:558d:2ef6 prefixlen 64 scopeid 0x20<link>
    inet6 fd00::2cf8:9220:a24:57f prefixlen 64 scopeid 0x0<global>
    ether 08:00:27:3c:7c:02 txqueuelen 1000 (Ethernet)
    RX packets 163 bytes 69222 (69.2 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 265 bytes 39467 (39.4 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

- c. `cyril@cyril-VirtualBox:~$`

### 37. `sudo ifconfig [interface] up`

- a. Definition: Enable a network interface.
- b. Example:

```

cyril@cyril-VirtualBox:~$ sudo ifconfig enp0s3 up
cyril@cyril-VirtualBox:~$ ifconfig enp0s3
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
    inet6 fe80::a8c3:9d1:558d:2ef6 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:3c:7c:02 txqueuelen 1000 (Ethernet)
    RX packets 170 bytes 70744 (70.7 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 281 bytes 40988 (40.9 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

cyril@cyril-VirtualBox:~$

```

c.

**38. traceroute [IP]**

- a. Definition: Trace the path packets take to a destination.
- b. Example:

```

cyril@cyril-VirtualBox:~$ traceroute 1.1.1.1
traceroute to 1.1.1.1 (1.1.1.1), 64 hops max
 1  10.0.2.2  0.310ms  0.081ms  0.071ms
 2  * * ^Z
[2]+  Stopped                  traceroute 1.1.1.1
cyril@cyril-VirtualBox:~$

```

c.

**39. nslookup [domain]**

- a. Definition: Query DNS to resolve a domain to IP(s).
- b. Example:

```

cyril@cyril-VirtualBox:~$ nslookup youtube.com
Server:      127.0.0.53
Address:     127.0.0.53#53

Non-authoritative answer:
Name:   youtube.com
Address: 142.251.220.142
Name:   youtube.com
Address: 2404:6800:4017:800::200e

cyril@cyril-VirtualBox:~$

```

c.

**40. dig [domain]**

- a. Definition: Advanced DNS lookup tool (more detailed than nslookup).
- b. Example:

```

cyril@cyril-VirtualBox:~$ dig youtube.com

; <<>> DiG 9.18.30-0ubuntu0.24.04.2-Ubuntu <<>> youtube.com
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 15571
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 65494
;; QUESTION SECTION:
youtube.com.                IN      A

;; ANSWER SECTION:
youtube.com.                114     IN      A      142.251.220.142

;; Query time: 0 msec
;; SERVER: 127.0.0.53#53(127.0.0.53) (UDP)
;; WHEN: Sat May 17 18:41:31 PST 2025
;; MSG SIZE rcvd: 56

cyril@cyril-VirtualBox:~$

```

c.

## 6. Shell Scripting & Functions

### 41. `chmod +x`

- Definition: Make script executable.
- Example:

```

cyril@cyril-VirtualBox:~$ chmod +x argument.sh
cyril@cyril-VirtualBox:~$

```

c.

### 42. `./"script.sh"`

- Definition: Run a script.
- Example:

```

cyril@cyril-VirtualBox:~$ ./argument.sh
Hello
cyril@cyril-VirtualBox:~$ █

```

c.

## 7. File System & Quotas

### 43. `quotacheck`

- Definition: Scan disk usage for quotas.
- Example:

```
cyril@cyril-VirtualBox:~$ sudo quotacheck -cug /home
quotacheck: Mountpoint (or device) /home not found or has no quota enabled.
quotacheck: Cannot find filesystem to check or filesystem not mounted with quota option.
cyril@cyril-VirtualBox:~$
```

c.

**44. quotaon**

- a. Definition: Enable quotas.
- b. Example:

```
cyril@cyril-VirtualBox:~$ sudo quotaon -av
cyril@cyril-VirtualBox:~$
```

c.

**45. repquota**

- a. Definition: Generate quota reports.
- b. Example:

```
cyril@cyril-VirtualBox:~$ sudo repquota -u /home
repquota: Mountpoint (or device) /home not found or has no quota enabled.
repquota: Not all specified mountpoints are using quota.
```

c.

**46. setquota**

- a. Definition: Assign quota limits.
- b. Example:

```
cyril@cyril-VirtualBox:~$ sudo setquota -u Yoimiya 50000 60000 1000 1200 /home
setquota: Mountpoint (or device) /home not found or has no quota enabled.
setquota: Not all specified mountpoints are using quota.
```

c.

**47. edquota**

- a. Definition: Edit quotas interactively.
- b. Example:

```
cyril@cyril-VirtualBox:~$ sudo edquota -u Yoimiya
edquota: Cannot open quotafile //aquota.user: No such file or directory
No filesystems with quota detected.
```

c.

**48. quota**

- a. Definition: Show user/group quotas.
- b. Example:

```
cyril@cyril-VirtualBox:~$ quota -u Yoimiya
quota: Cannot open quotafile //aquota.user: No such file or directory
cyril@cyril-VirtualBox:~$
```

c.

## 7. System Management & Package Control

**49. sudo**

- a. Definition: Execute commands as superuser.
- b. Example:

```
cyril@cyril-VirtualBox:~$ sudo useradd -m John
[sudo] password for cyril:
cyril@cyril-VirtualBox:~$
```

c.

**50. sudo apt update**

- a. Definition: Update package lists.
- b. Example:

