# **LINUX COMMANDS**

#### 1.pwd

Syntax: pwd [optional\_arguments] Example:

```
Inable ESM Apps to receive additional future security updates.

See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.

To check for new updates run: sudo apt update

Tailed to connect to https://changelogs.ubuntu.com/meta-release-lts. Check you

Thernet connection or proxy settings

Last login: Fri Sep 6 08:52:51 2024 from 10.100.1.130

Tryhackme@linux1:~$ whatis pwd

Dwd (1) - print name of current/working directory

Tryhackme@linux1:~$ pwd

Tryhackme@linux1:~$ pwd
```

#### 2. find

Syntax: find /path/to/search -options criteria

Example:

```
tryhackme@linux1:~$ whatis find
find (1) - search for files in a directory hierarchy
tryhackme@linux1:~$ find "C:\Users\student\Pictures\Screenshots\Screenshot 202
3-08-10 155031.png"
find: 'C:\\Users\\student\\Pictures\\Screenshots\\Screenshot 2023-08-10 155031
.png': No such file or directory
```

# 3.ls:

Syntax: Is [option] [file/directory]

```
tryhackme@linux1:~$ whatis ls
ls (1) - list directory contents
tryhackme@linux1:~$ ls
access.log folder1 folder2 folder3 folder4 text
tryhackme@linux1:~$ ls -1
access.log
folder1
folder2
folder3
folder4
text
tryhackme@linux1:~$
```

## 4 .Ls -l

Syntax: Is -I Example:

```
tryhackme@linux1:~$ ls -l
total 84
rw-rw-r-- 1 tryhackme tryhackme 65522 May 10
                                                2021 access.log
drwxr-xr-x 2 tryhackme tryhackme
                                  4096 May 10
                                                2021 folder1
drwxr-xr-x 2 tryhackme tryhackme
                                  4096 May 10
                                                2021 folder2
drwxr-xr-x 2 tryhackme tryhackme
                                  4096 May 10
                                                2021 folder3
drwxr-xr-x 2 tryhackme tryhackme
                                  4096 May 10
                                                2021 folder4
drwxrwxr-x 2 tryhack<u>m</u>e tryhackme
                                  4096 Sep 6 09:24 text
ryhackme@linux1:~$
```

# 5.cal

Syntax: cal [ [ month ] year ]

Example:

```
tryhackme@linux1:~$ cal 09 2014
September 2014
Su Mo Tu We Th Fr Sa
1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30
```

# 6.mkdir

Syntax: mkdir dir\_name

# 7.cd

Syntax: cd dir name

```
tryhackme@linux1:~$ mkdir sansarika
tryhackme@linux1:~$ cd sansarika
tryhackme@linux1:~/sansarika$ ■
```

#### 8.whatis

Syntax: whatis command

Example:

```
tryhackme@linux1:~/sansarika$ whatis passwd
passwd (1ssl) - compute password hashes
passwd (1) - change user password
passwd (5) - the password file
tryhackme@linux1:~/sansarika$
```

#### 9.man:

Syntax: man [option] [section number] [command name]

```
ryhackme@linux1:~/sansarika$ man ls
S(1)
                                          User Commands
                                                                                               LS(1)
NAME
         ls - list directory contents
                                        User Commands
NAME
        ls - list directory contents
SYNOPSIS
        ls [OPTION]... [FILE]...
DESCRIPTION
        List information about the FILEs (the current directory by default). Sort entries alphabetically if none of -cftuvSUX nor --sort is speci-
        fied.
        Mandatory arguments to long options are mandatory for short options
                 do not ignore entries starting with .
                 do not list implied . and ..
        --author
        -b, --escape
                 print C-style escapes for nongraphic characters
        --block-size=SIZE
                 with -l, scale sizes by SIZE when printing them; e.g.,
'--block-size=M'; see SIZE format below
         -B, --ignore-backups
                 do not list implied entries ending with ~
                 with -lt: sort by, and show, ctime (time of last modification of file status information); with -l: show ctime and sort by name; otherwise: sort by ctime, newest first
Manual page ls(1) line 1 (press h for help or q to quit)
```

#### 10.rmdir:

Syntax: rmdir [option]... [directory]...

Example:

```
tryhackme@linux1:~/sansarika$ mkdir school
tryhackme@linux1:~/sansarika$ rmdir school
tryhackme@linux1:~/sansarika$
```

# 11. Cat

Syntax: cat [options] [file\_name]

Example:

```
tryhackme@linux1:~$ whatis cat
cat (1) - concatenate files and print on the standard output
tryhackme@linux1:~$ cat test.txt
cat: test.txt: No such file or directory
tryhackme@linux1:~$ cat test1.txt test2.txt
cat: test1.txt: No such file or directory
cat: test2.txt: No such file or directory
tryhackme@linux1:~$
```

# 12. Cat >

Syntax: cat > newfile\_name

EXample:

```
labex:project/ $ cat >> test.txt
And, I am an open source platform.
labex:project/ $ cat test.txt
Hello, I am Linux distro.
And, I am an open source platform.
```

# 13. Cat >>

Syntax: cat file1 >> file2

```
labex:project/ $ cat > test.txt
Hello, I am Linux distro.
labex:project/ $ ls
test.txt
labex:project/ $ cat test.txt
Hello, I am Linux_distro.
```

14. Date:

Syntax: date [OPTION]... [+FORMAT]

Example:

```
labex:project/ $ date --date="2 year ago"
Sat Sep 10 02:32:05 PM CST 2022
labex:project/ $ date --date="yesterday"
Mon Sep 9 02:32:46 PM CST 2024
```

15. Touch:

Syntax: touch [options] file name

Example:

```
labex:project/ $ touch test.txt
labex:project/ $ ls
test.txt
```

16. Ls -a

Syntax: Is -a Example:

```
labex:project/ $ ls -1
test.txt
labex:project/ $ ls -l
total 4
-rw-rw-r-- 1 labex labex 61 Sep 10 14:50 test.txt
labex:project/ $ ls -a
. . . test.txt
```

# 17. Ifconfig:

Syntax: ifconfig [interface] [options]

Example:

```
labex:project/ $ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 172.18.0.6 netmask 255.255.0.0 broadcast 172.18.255.255
    ether 02:42:ac:12:00:06 txqueuelen 0 (Ethernet)
    RX packets 35213 bytes 2738976 (2.7 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 30304 bytes 12911838 (12.9 MB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,L00PBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    loop txqueuelen 1000 (Local Loopback)
    RX packets 6 bytes 384 (384.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 6 bytes 384 (384.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

#### 18. Mv

Syntax: mv [options(s)] [source\_file\_name(s)] [Destination\_file\_name] Example:

#### 19. Ps:

Syntax: ps [options]

```
labex:project/ $ ps
   PID TTY
                     TIME CMD
  1591 pts/0
                 00:00:00 zsh
  1842 pts/0
                 00:00:00 ps
labex:project/ $ ps -A
    PID TTY
                     TIME CMD
     1 ?
                 00:00:00 init.sh
     20 ?
                 00:00:00 supervisord
                 00:00:00 sshd
    21 ?
    22 ?
                 00:00:00 su
    23 ?
                 00:00:00 vncserver
    35 ?
                 00:00:34 Xvnc
    45 ?
                 00:00:00 sh
    46 ?
                 00:00:00 sh
                 00:00:00 xfce4-session
    47 ?
    56 ?
                 00:00:00 dbus-launch
    57 ?
                 00:00:00 dbus-daemon
                 00:00:00 at-spi-bus-laun
    59 ?
```

# 20. Ln

Syntax: In [OPTION]... TARGET... DIRECTORY

Example:

```
labex:project/ $ ls
exam.txt example test_dir
labex:project/ $ ln exam.txt test_dir
labex:project/ $ cd test_dir
labex:test_dir/ $ ls
exam.txt
```

# 21. Whoami

Syntax: whoami [OPTION]

```
labex:test_dir/ $ whoami
labex
labex:test_dir/ $
```

22. Gid:

Syntax: id -g Example:

```
labex:test_dir/ $ id
uid=5000(labex) gid=5000(labex) groups=5000(labex),27(sudo),121(ssl-cert),5002(public)
labex:test_dir/ $ id -g
5000
labex:test_dir/ $
```

23. Kill:

Syntax: kill [signal] PID

Example:

24. Chmod:

Syntax: chmod [options] [mode] [File\_name]

```
labex:test_dir/ $ chmod u+rwx exam.txt
labex:test_dir/ $ ls
exam.txt
labex:test_dir/ $ ls -1
total 0
-rwxrw-r-- 2 labex labex 0 Sep 13 09:16 exam.txt
```

25. Wc:

Syntax: wc <filepath>

Example:

```
labex:test_dir/ $ wc exam.txt
0 0 0 exam.txt
labex:test_dir/ $ cat > exam.txt
Hey, I am your friend. How are you?
labex:test_dir/ $ cat exam.txt
Hey, I am your friend. How are you?
labex:test_dir/ $ wc exam.txt
1 8 36 exam.txt
```

26. Su:

Syntax: su [options] [username]

Example:

```
labex:project/ $ su -V
su from util-linux 2.37.2
labex:project/ $ su -f
Password:
root@66f20ec4e9643e1b7d995d6b:/home/labex/project# Hello
bash: Hello: command not found
root@66f20ec4e9643e1b7d995d6b:/home/labex/project# 1s
cpfile file.txt t1.txt t2.txt text1.txt text2.txt
root@66f20ec4e9643e1b7d995d6b:/home/labex/project#
```

# 27. Head:

Syntax: head [OPTION]... [FILE]...

Example:

```
labex:test_dir/ $ cat state.txt
Madhya Pradesh
Andhra Pradesh
Sikkim
Mizoram
Telangana
Hyderabad
Rajasthan
labex:test_dir/ $ head -n 3 state.txt
Madhya Pradesh
Andhra Pradesh
Sikkim
```

28. Tail:

Syntax: tail [OPTION]... [FILE]...

Example:

```
labex:test_dir/ $ tail -n 3 state.txt
Telangana
Hyderabad
Rajasthan
labex:test_dir/ $
```

29. Netstat:

Syntax: netstat [options]

```
        labex:test_dir/ $ netstat -at

        Active Internet connections (servers and established)

        Proto Recv-Q Send-Q Local Address Foreign Address State

        tcp 0 0 0.0.0.0:ssh 0.0.0.0:* LISTEN

        tcp 0 0 0.0.0.0:3001 0.0.0.0:* LISTEN

        tcp 0 0 0.0.0.0:3002 0.0.0.0:* LISTEN

        tcp 0 0 127.0.0.11:37887 0.0.0.0:* LISTEN

        tcp 0 0 47065fda167b.limit:3001 node_openresty.li:42460 ESTABLISHED

        tcp 0 0 47065fda167b.limit:3002 node_openresty.li:39662 ESTABLISHED

        tcp 0 0 47065fda167b.limite:ssh 47.251.57.20:44430 ESTABLISHED

        tcp6 0 0 [::]:ssh [::]:* LISTEN
```

30. Grep:

Syntax: grep [options] pattern [files]

Example:

```
labex:test_dir/ $ grep -n "unix" exam.txt
labex:test_dir/ $ grep -n "Pradesh" state.txt
1:Madhya Pradesh
2:Andhra Pradesh
labex:test_dir/ $ grep -n "." exam.txt
1:Hey, I am your friend. How are you?
```

31. Pid:

Syntax: pidof [options] program1 program2 ... programN

Example:

```
labex:test_dir/ $ pidof bash
1
labex:test_dir/ $ pidof -x bash
1
labex:test_dir/ $
```

32. Echo:

Syntax: echo [option] [string]

```
labex:test_dir/ $ echo "Heya how're you"
Heya how're you
labex:test_dir/ $ echo echo -e "Heya \cfor how're you"
echo -e Heya
labex:test_dir/ $ echo -e "Heya \nfor \nhow're you"
Heya
for
how're you
```

33. Sudo:

Syntax: sudo [options]

Example:

```
labex:test_dir/ $ sudo -V
Sudo version 1.9.9
Sudoers policy plugin version 1.9.9
Sudoers file grammar version 48
Sudoers I/O plugin version 1.9.9
Sudoers audit plugin version 1.9.9
labex:test_dir/ $
```

34. Cp

Syntax: cp [options] source... destination

Example:

```
labex:project/ $ cp file.txt cpfile
labex:project/ $ ls
cpfile file.txt
labex:project/ $
```

35. Join

Syntax: join [option]...[file]...

```
labex:project/ $ cat > text1.txt
101 Shreya
104 Shyaam
labex:project/ $ cat > text2.txt
101 Verma
104 Mehra
labex:project/ $ join text1.txt text2.txt
101 Shreya Verma
104 Shyaam Mehra
```

36. Paste

Syntax: paste [option]...[file]...

Example:

```
labex:project/ $ cat > t1.txt
Football
Cricket
labex:project/ $ touch t2.txt
labex:project/ $ cat > t2.txt
Sport
Sport
Sport
labex:project/ $ paste t1.txt t2.txt
Football Sport
Cricket Sport
```

37. Wc -l

Syntax: wc -l [OPTION]... [FILE]...

Example:

```
labex:project/ $ wc -1 t1.txt
4 t1.txt
labex:project/ $
```

38. Kill all

Syntax: kill [signal] PID

```
labex:project/ $ killall -1
HUP INT QUIT ILL TRAP ABRT BUS FPE KILL USR1 SEGV USR2 PIPE ALRM TERM STKFLT
CHLD CONT STOP TSTP TTIN TTOU URG XCPU XFSZ VTALRM PROF WINCH POLL PWR SYS
labex:project/ $
```

39. Rm:

Syntax: rm -r[directory]

Example:

```
labex:project/ $ rm folder1
rm: cannot remove 'folder1': Is a directory
labex:project/ $ rm -r folder1/
labex:project/ $ ls
cpfile file.txt
```

40. Rev

Syntax: rev [option] [file...]

Example:

```
labex:project/ $ rev text1.txt
ayerhS 101
maayhS 401
labex:project/ $
```

41. Cmp:

Syntax: cmp [OPTION]... FILE1 [FILE2 [SKIP1 [SKIP2]]] Example:

```
labex:project/ $ cmp t1.txt t2.txt
t1.txt t2.txt differ: char 1, line 1
labex:project/ $ cmp text1.txt text2.txt
text1.txt text2.txt differ: char 5, line 1
labex:project/ $ |
```

42. Passwd:

Syntax: passwd [options] [username]

```
labex:project/ $ sudo passwd root
New password:
Retype new password:
passwd: password updated successfully
labex:project/ $ |
```