40 Linux Commands

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> Using pwd, Is, cd, mkdir, touch, grep commands

```
omkar@OmkarPC:~/new1 Q = - 0 x

omkar@OmkarPC:-$ pwd
/home/omkar
omkar@OmkarPC:-$ mkdir new1
omkar@OmkarPC:-$ ls
Desktop Downloads new1 Pictures snap Videos
Documents Music Omkar_files Public Templates
omkar@OmkarPC:-$ cd new1
omkar@OmkarPC:-/new1$ touch hello.txt
omkar@OmkarPC:-/new1$ ls
hello.txt
omkar@OmkarPC:-/new1$ vi hello.txt
omkar@OmkarPC:-/new1$ grep COEP hello.txt
i study in COEP college
omkar@OmkarPC:-/new1$
```

> Using cat, diff, tar -zcvf commands

```
omkar@OmkarPC: ~
omkar@OmkarPC:~/new1$ ls
hello2.txt hello.txt
omkar@OmkarPC:~/new1$ vi hello2.txt
omkar@OmkarPC:~/new1$ cat > hello2.txt
omkar@OmkarPC:~/new1$ diff hello.txt hello2.txt
1,2d0
< my name is omkar oak
< i study in COEP college
omkar@OmkarPC:~/new1$ tar -zcvf archive.tar.gz new1
tar: new1: Cannot stat: No such file or directory
tar: Exiting with failure status due to previous errors omkar@OmkarPC:~/new1$ cd ..
omkar@OmkarPC:~$ tar -zcvf archive.tar.gz new1
new1/
new1/archive.tar.gz
new1/hello2.txt
new1/hello.txt
omkar@OmkarPC:~$ ls
omkar@OmkarPC:~$
```

> Using echo, zip, unzip commands

```
omkar@OmkarPC:-/new1
omkar@OmkarPC:-/s echo "hello world"
hello world
omkar@OmkarPC:-/s cd new1
omkar@OmkarPC:-/new1$ zip archive2.zip hello.txt hello2.txt
adding: hello.txt (stored 0%)
omkar@OmkarPC:-/new1$ ls
archive2.zip archive.tar.gz hello2.txt hello.txt
omkar@OmkarPC:-/new1$ unzip archive2.zip
Archive: archive2.zip
replace hello.txt? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
extracting: hello2.txt? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
extracting: hello2.txt
omkar@OmkarPC:-/new1$ ls
archive2.zip archive.tar.gz hello2.txt hello.txt
omkar@OmkarPC:-/new1$ s
archive2.zip archive.tar.gz hello2.txt hello.txt
omkar@OmkarPC:-/new1$
```

Using head, tail commands

Using df and du commands

```
omkar@OmkarPC: ~/new1
omkar@OmkarPC:~/new1$ df
Filesystem
              1K-blocks
                            Used Available Use% Mounted on
                1604612
tmpfs
                            2536
                                  1602076
                                            1% /run
/dev/sda2
               29317116 13188320 14614200
                                           48% /
                                            0% /dev/shm
                8023048
                                  8023048
tmpfs
tmpfs
                   5120
                                    5116
                                            1% /run/lock
/dev/sda1
                  94759
                            4153
                                    90606
                                            5% /boot/efi
                1604608
                            4716
                                 1599892
                                            1% /run/user/1000
tmpfs
omkar@OmkarPC:~/new1$ df -m
            1M-blocks Used Available Use% Mounted on
Filesystem
tmpfs
                   1568
                                  1565
                                         1% /run
/dev/sda2
                  28630 12880
                                  14272
                                        48% /
tmpfs
                   7836
                                  7836
                                         0% /dev/shm
                         0
tmpfs
                                         1% /run/lock
/dev/sda1
                     93
                                    89
                                          5% /boot/efi
                   1567
                                         1% /run/user/1000
tmofs
                                   1563
omkar@OmkarPC:~/new1$ du -m
omkar@OmkarPC:~/new1S
```

Using ping command

```
omkar@OmkarPC: ~
omkar@OmkarPC:~$ ping coep.org.in
ping: coep.org.in: No address associated with hostname
omkar@OmkarPC:~$ ping www.coep.org.in
PING www.coep.org.in (210.212.183.5) 56(84) bytes of data.
64 bytes from coep.org.in (210.212.183.5): icmp_seq=1 ttl=45 time=19.4 ms
64 bytes from coep.org.in (210.212.183.5): icmp_seq=2 ttl=45 time=18.6 ms
64 bytes from coep.org.in (210.212.183.5): icmp_seq=3 ttl=45 time=19.0 ms
64 bytes from coep.org.in (210.212.183.5): icmp_seq=4 ttl=45 time=35.1 ms
64 bytes from coep.org.in (210.212.183.5): icmp_seq=5 ttl=45 time=37.8 ms
64 bytes from coep.org.in (210.212.183.5): icmp_seq=6 ttl=45 time=20.1 ms
^C
--- www.coep.org.in ping statistics ---
6 packets transmitted, 6 received, 0% packet loss, time 5007ms
rtt min/avg/max/mdev = 18.598/24.985/37.813/8.164 ms
omkar@OmkarPC:~$
```

> Using vi, nano and jed editors

```
omkar@OmkarPC:~/new1$ ls
archive2.zip archive.tar.gz hello2.txt hello.txt
omkar@OmkarPC:~/new1$ vi hello.txt
omkar@OmkarPC:~/new1$ cat hello.txt
my name is omkar oak
i study in COEP college
omkar@OmkarPC:~/new1$ nano hello.txt
my name is omkar oak
i study in COEP college
odkay okay no problem
omkar@OmkarPC:~/new1$ jed hello.txt
Command 'jed' not found, but can be installed with:
sudo apt install jed
omkar@OmkarPC:~/new1$
```

Using history command

```
omkar@OmkarPC:~$ history

1 cd ..
2 ls
3 cd home
4 ls
5 cd omkar
6 ls
7 hostnameetl
8 hostnamectl
9 hostname
10 sudo hostnamectl set-hostname OmkarPC
11 sudo edit /etc/hosts
13 clc
14 clear
15 hostname
16 hostname
16 hostname
16 hostname
16 hostname
17 sudo su
18 echo Okay
19 ls
20 mkdir Omkar
21 ls
22 ln -s ~/home/Omkar files ~/Desktop/
23 ln -s ~/home/Omkar_files ~/Desktop/
23 ln -s ~/home/Omkar_files ~/Desktop/
```

Using sudo commands with root privileges
Used useradd, passwd, userdel commands along with sudo

```
omkar@OmkarPC:-/new1$ sudo useradd omkar2
omkar@OmkarPC:-/new1$ cat /etc/passwd | wc -l
49
omkar@OmkarPC:-/new1$ sudo userdel omkar2
omkar@OmkarPC:-/new1$ cat /etc/passwd | wc -l
48
omkar@OmkarPC:-/new1$ echo "user was added and deleted"
user was added and deleted
omkar@OmkarPC:-/new1$

omkar@OmkarPC:-/new1$
```

Using sudo apt-get install, sudo apt-get update, sudo apt-get check commands

```
omkar@OmkarPC:-/new1$ sudo apt-get update
Hit:1 https://dl.google.com/linux/chrome/deb stable InRelease
Hit:2 http://security.ubuntu.com/ubuntu jammy InRelease
Hit:3 http://security.ubuntu.com/ubuntu jammy-security InRelease
Hit:4 http://in.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:5 http://in.archive.ubuntu.com/ubuntu jammy-backports InRelease
Reading package lists... Done
omkar@OmkarPC:-/new1$ sudo apt-get check
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
omkar@OmkarPC:-/new1$
```

Using man command for pwd, i.e. man pwd

```
PWD(1)

User Commands

PWD(1)

NAME

pwd - print name of current/working directory

SYNOPSIS

pwd [OPTION]...

DESCRIPTION

Print the full filename of the current working directory.

-1, --logical

use PWD from environment, even if it contains symlinks

-P, --physical

avoid all symlinks

--help display this help and exit

--version

output version information and exit

If no option is specified, -P is assumed.

Manual page pwd(1) line 1/47 41% (press h for help or q to quit)
```

➤ Using hostname, hostname -i commands

```
omkar@OmkarPC:~/new1$ hostname
Omkar@OmkarPC:~/new1$ hostname
Omkar@OmkarPC:~/new1$ hostname -i
2405:201:1012:2043:a960:8d8b:b73a:ad8a 2405:201:1012:2043:f5e6:53b2:41f5:e86d 192.168.29.103 fe80::2aff:80a3:f306:1313
omkar@OmkarPC:~/new1$
```

➤ Using uname -a, uname -s, uname -n commands

```
omkar@OmkarPC:-$ uname
Linux
omkar@OmkarPC:-$ uname -a
Linux OmkarPC 5.15.0-56-generic #62-Ubuntu SMP Tue Nov 22 19:54:14 UTC 2022 x86_
64 x86_64 x86_64 GNU/Linux
omkar@OmkarPC:-$ uname -s
Linux
omkar@OmkarPC:-$ uname -n
OmkarPC
omkar@OmkarPC:-$
```

> Using alias command

```
omkar@OmkarPC:-/new1$ alias new=touch
omkar@OmkarPC:-/new1$ new hello3.txt
omkar@OmkarPC:-/new1$ ls
archive2.zip archive.tar.gz hello2.txt hello3.txt
omkar@OmkarPC:-/new1$
```

Using ps, ps -u username commands

```
omkar@OmkarPC: ~/new1
                                                  TIME CMD
00:00:00 bash
00:00:00 ps
nkar@OmkarPC:~/new
PID TTY
2898 pts/0 00
    7860 pts/0
                                              00:00:00 ps
//new1$ ps -u omkar
TIME CMD
00:00:00 systemd
00:00:00 (sd-pam)
00:00:00 pipewire
00:00:00 pipewire-media-
00:00:00 pipseaudio
00:00:00 pulseaudio
00:00:00 dbus-daemon
00:00:00 dbus-daemon
00:00:00 qvfsd
      PID TTY
    1657 ?
    1663 ?
    1664 ?
    1665 ?
    1666 ?
    1675 ?
                                                  00:00:00 dbus-daemon
00:00:00 gyfsd
00:00:00 gyfsd-fuse
00:00:00 xdg-document-po
00:00:00 xdg-permission-
00:00:01 tracker-miner-f
00:00:00 gdm-wayland-ses
00:00:00 gnome-session-b
00:00:00 gnome-session-c
00:00:00 gyfs-udisks2-vo
00:00:00 gnome-session-b
   1687 ?
1710 ?
    1712 ?
   1712 ?
1717 ?
1736 ?
1746 tty2
1749 tty2
    1790 ?
    1792 ?
1807 ?
```

Using top, kill command

```
Omkar@OmkarPC:-

C = - 0 ▼

Tarks: 199 total, 2 running, MT sleeping, 0 stopped, 0 zorbie

MCD(x): 3.7 x, 7.4 xy, 0.0 nt, 88.9 ld, 0.0 st, 0.
```

Using htop command