Rohit 23/SCA/BCA/047

Command 1 :- who
whoami

```
[root@localhost /]# who
[root@localhost /]# whoami
root
```

```
[root@localhost /]# tty
/dev/hvc0
```
Command 2 :- tty

```
[root@localhost /]# ls
bin    dev   home   lib64         media   opt    root   sbin   sys   usr
boot   etc   lib    lost+found   mnt     proc   run    srv    tmp   var
```
Command 3:-ls

Command 4 :- ls -l

```
[root@localhost /]# ls -l
total 72
lrwxrwxrwx    1 root root      7 Aug 12  2020 bin -> usr/bin
drwxrwxr-x    2 root root     37 Dec  7  2020 boot
drwxr-xr-x    3 root root  12180 Dec 31  1969 dev
drwxr-xr-x  125 root root   6673 Dec 26  2020 etc
drwxr-xr-x    2 root root     37 Aug 12  2020 home
lrwxrwxrwx    1 root root      7 Aug 12  2020 lib -> usr/lib
lrwxrwxrwx    1 root root      9 Aug 12  2020 lib64 -> usr/lib64
drwx------    2 root root     37 Dec  7  2020 lost+found
drwxr-xr-x    2 root root     37 Aug 12  2020 media
drwxr-xr-x    2 root root     37 Aug 12  2020 mnt
drwxr-xr-x    2 root root     37 Aug 12  2020 opt
dr-xr-xr-x   29 root root      0 Dec 31  1969 proc
dr-xr-x---    2 root root    243 Dec 26  2020 root
drwxr-xr-x   26 root root    716 Dec 26  2020 run
lrwxrwxrwx    1 root root      8 Aug 12  2020 sbin -> usr/sbin
drwxr-xr-x    2 root root     37 Aug 12  2020 srv
dr-xr-xr-x   11 root root      0 Dec 31  1969 sys
drwxrwxrwt    3 root root    188 Dec 26  2020 tmp
drwxr-xr-x   12 root root    274 Dec  7  2020 usr
drwxr-xr-x   19 root root    457 Dec  7  2020 var
```

```
LS(1)                          User Commands                          LS(1)

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
       too.

       -a, --all
              do not ignore entries starting with .

       -A, --almost-all
              do not list implied . and ..

       --author
              with -l, print the author of each file

       -b, --escape
              print C-style escapes for nongraphic characters

       --block-size=SIZE
 Manual page ls(1) line 1 (press h for help or q to quit)
```

Command 5 :- man

```
[root@localhost /]# cal
      October 2024
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 31
```

Command 6 :- cal

```
[root@localhost /]# date
Wed Oct  9 08:21:40 PM UTC 2024
```

Command 7 :- date

```
[root@localhost /]# echo "your name"
your name
```

Command 8 :- echo

```
[root@localhost /]# cat >file1.txt
hello guys
^Z
```

Command 9 :- cat

```
[root@localhost /]# mkdir dir1
[root@localhost /]# ls
bin   dev   etc        home   lib64       media   opt    root   sbin   sys   usr
boot  dir1  file.txt    lib    lost+found  mnt     proc   run    srv    tmp   var
[root@localhost /]#
```
Command 10 :- mkdir

```
[root@localhost /]# cmp file1.txt file2.txt
cmp: EOF on file1.txt after byte 11, line 1
```
Command 11 :- cmp

```
[root@localhost /]# comm file1.txt file2.txt
            hello guys
      i am a student
```
Command 12 :- comm

Command 13 :- diff
```
[root@localhost /]# diff file1.txt file2.txt
1a2
> i am a student
```

```
[root@localhost /]# head -n2 file3.txt
hello
gus
```
Command 14 :- head

```
[root@localhost /]# tail -n2 file3.txt
i am a student
of shell
```
Command 15 :- tail

Command 16 :- chown username file

```
root@localhost /]# cat >dhruv.txt
hello i m dhruv sharma
i am learnig cyber security
^Z
[1]+ Stopped(SIGTSTP)           cat > dhruv.txt
root@localhost /]# ll dhruv.txt
-rw-r--r-- 1 root root 51 Sep 11 19:49 dhruv.txt
root@localhost /]# adduser kali
root@localhost /]# cdhome
sh: cdhome: command not found
root@localhost /]# cd home
root@localhost home]# ls
kali
root@localhost home]# cd/
sh: cd/: No such file or directory
root@localhost home]# cd /
root@localhost /]# chown dhruv.txt kali
chown: invalid user: 'dhruv.txt'
root@localhost /]# chown kali dhruv.txt
root@localhost /]# ll dhruv.txt
-rw-r--r-- 1 kali root 51 Sep 11 19:49 dhruv.txt
root@localhost /]# addgroup login
sh: addgroup: command not found
root@localhost /]# groupadd login
root@localhost /]# chgrp login dhruv.txt
root@localhost /]# ll dhruv.txt
-rw-r--r-- 1 kali login 51 Sep 11 19:49 dhruv.txt
root@localhost /]#
```

chgrp username file

Command 17 :- chmod

```
[root@localhost /]# chmod 777 dhruv.txt
[root@localhost /]# ll dhruv .txt
ls: cannot access 'dhruv': No such file or directory
ls: cannot access '.txt': No such file or directory
[root@localhost /]# ll dhruv.txt
-rwxrwxrwx 1 kali login 51 Sep 11 19:49 dhruv.txt
[root@localhost /]# chmod u-w dhruv.txt
[root@localhost /]# ll dhruv.txt
-r-xrwxrwx 1 kali login 51 Sep 11 19:49 dhruv.txt
[root@localhost /]#
```


Command 18 :- gzip

```
[root@localhost /]# gzip dhruv*
[root@localhost /]# ls
bin          dhruv13.gz   dhruv19.gz   dhruv5.gz     etc           mnt     srv
boot         dhruv14.gz   dhruv1.gz    dhruv6.gz     home          opt     sys
dev          dhruv15.gz   dhruv20.gz   dhruv7.gz     lib           proc    tmp
dhruv10.gz   dhruv16.gz   dhruv2.gz    dhruv8.gz     lib64         root    usr
dhruv11.gz   dhruv17.gz   dhruv3.gz    dhruv9.gz     lost+found    run     var
dhruv12.gz   dhruv18.gz   dhruv4.gz    dhruv.txt.gz  media         sbin
[root@localhost /]#
```

gunzip

```
[root@localhost /]# gunzip dhruv*
gzip: dhruv1: unknown suffix -- ignored
gzip: dhruv1 already exists; do you wish to overwrite (y or n)? y
[root@localhost /]# ls
bin       dhruv11   dhruv16   dhruv20   dhruv7     home          mnt     sbin   var
boot      dhruv12   dhruv17   dhruv3    dhruv8     lib           opt     srv
dev       dhruv13   dhruv18   dhruv4    dhruv9     lib64         proc    sys
dhruv1    dhruv14   dhruv19   dhruv5    dhruv.txt  lost+found    root    tmp
dhruv10   dhruv15   dhruv2    dhruv6    etc        media         run     usr
```

Command 19:- tar

Command 20:- pr

```
root@dhruv-virtual-machine:/# pr -3 file1.txt


2024-10-28 10:32              file1.txt              Page 1


1                5                9
2                6                10
3                7                1
4                8
```

Command 21:- cut

```
root@dhruv-virtual-machine:/# cut -c 2-4 5-6 file2.txt
cut: 5-6: No such file or directory
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root@dhruv-virtual-machine:/# cut -c +512 file2.txt
cut: invalid byte/character position '+512'
Try 'cut --help' for more information.
root@dhruv-virtual-machine:/#
```

Command 22:- paste

Command 23:- sort

```
root@dhruv-virtual-machine:/# sort -n file3.txt
3
4
5
5
5
23
23
45
67
root@dhruv-virtual-machine:/#
```

Command 24:- uniq

```
root@dhruv-virtual-machine:/# cat >file4.txt
I love music
I love music
I love music

I love music of arijeet singh
i love music of arijeet singh
^Z
[5]+  Stopped                 cat > file4.txt
root@dhruv-virtual-machine:/# uniq file4.txt
I love music

I love music of arijeet singh
i love music of arijeet singh
root@dhruv-virtual-machine:/#
```

Command 25:- tr

```
root@dhruv-virtual-machine:/# tr '.' ',' <file2.txt | head
Sure! Here's a random text you can use for a text file:

---

**Title: The Whispering Woods**

In the heart of the ancient forest, where sunlight danced through the leaves, there lay a hidden glade, The air was thick with the scent of pine and wildflowers, and the gentle rustle of the trees seemed
 to carry secrets of ages past,

Legend spoke of the Whispering Woods, a place where the trees could communicate with those who dared to listen, It was said that if you found the oldest oak, its gnarled branches would share tales of for
gotten times,

root@dhruv-virtual-machine:/#
```

Command 26:- ps

```
root@dhruv-virtual-machine:/# ps
    PID TTY          TIME CMD
   4647 pts/0    00:00:00 su
   4648 pts/0    00:00:00 bash
   4915 pts/0    00:00:00 cat
   5311 pts/0    00:00:00 cat
   5345 pts/0    00:00:00 cat
   5458 pts/0    00:00:00 cat
   5465 pts/0    00:00:00 cat
  44099 pts/0    00:00:00 ps
root@dhruv-virtual-machine:/#
```

Command 27:- &

```
root@dhruv-virtual-machine:/# sort -n file5.txt &
[8] 64804
root@dhruv-virtual-machine:/# 3
3
4
5
34
34
66
78
678
^C
[8]   Done                  sort -n file5.txt
root@dhruv-virtual-machine:/#
```

Command 28:- nohup

```
root@dhruv-virtual-machine:/# nohup sort -n file5.txt &
[8] 66380
root@dhruv-virtual-machine:/# nohup: ignoring input and appending output to 'nohup.out'

[8]   Done                  nohup sort -n file5.txt
root@dhruv-virtual-machine:/# cat nohup.out
3
3
4
5
34
34
66
78
678
root@dhruv-virtual-machine:/#
```

Command 29:- nice

```
root@dhruv-virtual-machine:/# nice wc -l file2.txt &
[8] 66434
root@dhruv-virtual-machine:/# 19 file2.txt

[8]   Done                  nice wc -l file2.txt
root@dhruv-virtual-machine:/#
```

Command 30:- kill

```
dhruv@dhruv-virtual-machine: /

root@dhruv-virtual-machine:/# ps
    PID TTY          TIME CMD
 66531 pts/0    00:00:00 su
 66532 pts/0    00:00:00 bash
 66551 pts/0    00:00:00 cat
 66554 pts/0    00:00:00 cat
 66589 pts/0    00:00:00 ps
root@dhruv-virtual-machine:/# kill -9 66554
root@dhruv-virtual-machine:/# ps
    PID TTY          TIME CMD
 66531 pts/0    00:00:00 su
 66532 pts/0    00:00:00 bash
 66551 pts/0    00:00:00 cat
 66590 pts/0    00:00:00 ps
[2]+  Killed                  cat > file2.txt
root@dhruv-virtual-machine:/# kill 66531

Session terminated, killing shell...root@dhruv-virtual-machine:/#  ...killed.
Terminated
dhruv@dhruv-virtual-machine:/$
```

Command 31:- jobs

```
root@dhruv-virtual-machine: /

root@dhruv-virtual-machine:/# cat >file1.txt
hello i am learning cyber security
^Z
[1]+  Stopped                 cat > file1.txt
root@dhruv-virtual-machine:/# jobs
[1]+  Stopped                 cat > file1.txt
root@dhruv-virtual-machine:/# cat >file2.txt
Hello everyone
^Z
[2]+  Stopped                 cat > file2.txt
root@dhruv-virtual-machine:/# jobs
[1]-  Stopped                 cat > file1.txt
[2]+  Stopped                 cat > file2.txt
root@dhruv-virtual-machine:/#
```