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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
```

## 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 specified.

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

```
root@dhruv-virtual-machine:/# touch dhruv1..20
root@dhruv-virtual-machine:/# ls
bin  cdrom  dhruv1  dhruv11  dhruv13  dhruv15  dhruv17  dhruv19  dhruv20  dhruv4  dhruv6  dhruv8  etc  lib  lib64  lost+found  mnt  proc  run  snap  swapfile  tmp  var
boot  dev  dhruv10  dhruv12  dhruv14  dhruv16  dhruv18  dhruv2  dhruv3  dhruv5  dhruv7  dhruv9  home  lib32  libx32  media  opt  root  sbin  srv  sys  usr
root@dhruv-virtual-machine:/# tar -cvf dhruv.tar dhruv*
dhruv1
dhruv10
dhruv11
dhruv12
dhruv13
dhruv14
dhruv15
dhruv16
dhruv17
dhruv18
dhruv19
dhruv2
dhruv20
dhruv3
dhruv4
dhruv5
dhruv6
dhruv7
dhruv8
dhruv9
root@dhruv-virtual-machine:/# ls
bin  cdrom  dhruv1  dhruv11  dhruv13  dhruv15  dhruv17  dhruv19  dhruv20  dhruv4  dhruv6  dhruv8  dhruv.tar  home  lib32  libx32  media  opt  root  sbin  srv  swapfile  tmp  var
boot  dev  dhruv10  dhruv12  dhruv14  dhruv16  dhruv18  dhruv2  dhruv3  dhruv5  dhruv7  dhruv9  etc  lib  lib64  lost+found  mnt  proc  run  snap  swapfile  tmp  var
root@dhruv-virtual-machine:/#
```

### 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: /
root@dhruv-virtual-machine:/# cut -c 2-4 5-6 file2.txt
cut: 5-6: No such file or directory
ure
--
**Title: The Whispering Woods**
n t
ege
ne
lth
s n
--
eel
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: /
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: /
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: /
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: /
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: /
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:/#
```