

Files and Directories

Basic Linux Commands:

- **whoami** = To check Who you're logged n as

```
[ec2-user@ip-172-31-5-128 ~]$ whoami  
ec2-user
```

- **who/w** = Displays who is online

```
[ec2-user@ip-172-31-5-128 ~]$ who  
ec2-user pts/0      2025-02-22 03:15 (103.197.75.244)  
[ec2-user@ip-172-31-5-128 ~]$ w  
03:38:48 up 24 min,  1 user,  load average: 0.00, 0.01, 0.00  
USER      TTY      LOGIN@  IDLE   JCPU   PCPU   WHAT  
ec2-user  pts/0    03:15   0.00s  0.02s  0.00s  w
```

- **sudo su -** = Switch to root user

```
[ec2-user@ip-172-31-5-128 ~]$ sudo su -  
Last login: Sat Feb 22 03:30:22 UTC 2025 on pts/1  
[root@ip-172-31-5-128 ~]# ^C
```

- **date** = Show the current date and time

```
[root@ip-172-31-5-128 ~]# date  
Sat Feb 22 03:42:22 UTC 2025
```

- **cal** = Show this month's calendar

```
[root@ip-172-31-5-128 ~]# cal  
February 2025  
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
```

- **uptime** = Show current uptime

```
[root@ip-172-31-5-128 ~]# uptime  
03:43:34 up 28 min,  2 users,  load average: 0.00, 0.00, 0.00
```

- **users** = Show user information:

```
[root@ip-172-31-5-128 ~]# users  
ec2-user ec2-user
```

- **man <command>** = Shows manual of command (man cal)

```
CAL(1)                                     User Commands                               CAL(1)
NAME
    cal - display a calendar

SYNOPSIS
    cal [options] [[[day] month] year]
    cal [options] [timestamp|monthname]

DESCRIPTION
    cal displays a simple calendar. If no arguments are specified, the current month is displayed.

    The month may be specified as a number (1-12), as a month name or as an abbreviated month name
    according to the current locales.

    Two different calendar systems are used, Gregorian and Julian. These are nearly identical systems with
    Gregorian making a small adjustment to the frequency of leap years; this facilitates improved
    synchronization with solar events like the equinoxes. The Gregorian calendar reform was introduced in
    1582, but its adoption continued up to 1923. By default cal uses the adoption date of 3 Sept 1752.
    From that date forward the Gregorian calendar is displayed; previous dates use the Julian calendar
    system. 11 days were removed at the time of adoption to bring the calendar in sync with solar events.
    So Sept 1752 has a mix of Julian and Gregorian dates by which the 2nd is followed by the 14th (the 3rd
    through the 13th are absent).

    Optionally, either the proleptic Gregorian calendar or the Julian calendar may be used exclusively.
    See --reform below.

Manual page cal(1) line 1 (press h for help or q to quit)
```

- **pwd** = To see present working directory

```
[root@ip-172-31-5-128 ~]# pwd
/root
```

- **cd <directoryname>** = change directory

```
[root@ip-172-31-5-128 ~]# ls
firstdoc.txt  newdir
[root@ip-172-31-5-128 ~]# cd newdir
[root@ip-172-31-5-128 newdir]# pwd
/root/newdir
[root@ip-172-31-5-128 newdir]# cd ..
[root@ip-172-31-5-128 ~]# pwd
/root
[root@ip-172-31-5-128 ~]#
```

- **clear** = Clear the screen

```
[root@ip-172-31-5-128 ~]#
```

View files(Open/Read):

- **ls** = List out all the files in present working directory

```
[root@ip-172-31-5-128 ~]# ls
firstdoc.txt  newdir
```

- `cat <filename>` = display contents of a filename (directly displays end of the file)

```
[root@ip-172-31-5-128 ~]# cat firstdoc.txt
Hello from Linux
```

- `less <filename>` = Displays content of the file page by page (space to switch to next page, q to quit from file)

```
Hello from Linux
This is first part

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firstdoc.txt
```

- `more <filename>` = works in similar way as less but displays content of the file in percentage (space to switch to next page, q to quit from file)

```
Hello from Linux
This is first part

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--More--(22%)
```

- `head -<no_of_lines> <filename>` = output of the first number of lines mentioned of the file

```
[root@ip-172-31-5-128 ~]# head firstdoc.txt
Hello from Linux
This is first part

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```

- `tail -<no_of_lines> <filename>` = If you want to display output of only last number of lines mentioned

```
[root@ip-172-31-5-128 ~]# tail firstdoc.txt

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```

This is last part
This is last line

- `touch <filename>` = create a 0 bytes file

```
[root@ip-172-31-5-128 newdir]# touch newdocument.txt
[root@ip-172-31-5-128 newdir]#
```

- **cat <filename>** = create a file and allows to write

```
[root@ip-172-31-5-128 newdir]# cat > newdocument2.txt
Hello This is a document created by a cat command, and it is allowing me to write
```

- **nano <filename>** = Creates a file if file name doesn't exist and if already exists, continues editing the same

```
GNU nano 5.8 newdocument2.txt Modified
Hello This is a document created by a cat command
This is added new line
^G Help      ^O Write Out ^W Where Is  ^K Cut
^X Exit      ^R Read File ^\ Replace  ^U Paste
```

- **vi <filename>** = Creates a file if filename doesn't exist and if already exists, continues editing the same

```
Hello This is a document created by a cat command
, and it is allowing me to write
This is added new line
This line is added using vi editor
~
~
~
~
~
~
-- INSERT --                3,34      All
```

- **rm <filename>** = remove a file

```
[root@ip-172-31-5-128 newdir]# ls
newdocument.txt newdocument2.txt
[root@ip-172-31-5-128 newdir]# rm newdocument2.txt
rm: remove regular file 'newdocument2.txt'? yes
[root@ip-172-31-5-128 newdir]# ls
newdocument.txt
[root@ip-172-31-5-128 newdir]#
```

- **mkdir <directoryname>** = creates a directory

```
[root@ip-172-31-5-128 ~]# ls
firstdoc.txt newdir
[root@ip-172-31-5-128 ~]# mkdir newdir2
[root@ip-172-31-5-128 ~]# ls
firstdoc.txt newdir newdir2
[root@ip-172-31-5-128 ~]#
```

- **rmdir <directoryname>** = removes an empty directory

```
[root@ip-172-31-5-128 ~]# ls
firstdoc.txt  newdir  newdir2
[root@ip-172-31-5-128 ~]# rmdir newdir2
[root@ip-172-31-5-128 ~]# ls
firstdoc.txt  newdir
```

- `rm -rf <directoryname>` = removes a directory containing some files

```
[root@ip-172-31-5-128 ~]# ls
firstdoc.txt  newdir
[root@ip-172-31-5-128 ~]# rm -rf newdir
[root@ip-172-31-5-128 ~]# ls
firstdoc.txt
```