

Linux Commands

Linux Directory Commands

1. pwd Command

The `pwd` command is used to display the location of the current working directory.

Syntax:

1. `pwd`

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ pwd
/home/javatpoint
```

2. mkdir Command

The `mkdir` command is used to create a new directory under any directory.

Syntax:

1. `mkdir <directory name>`

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ mkdir new_directory
javatpoint@javatpoint-Inspiron-3542:~$
```

3. rmdir Command

The `rmdir` command is used to delete a directory.

Syntax:

1. `rmdir <directory name>`

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ rmdir new_directory
javatpoint@javatpoint-Inspiron-3542:~$
```

4. ls Command

The `ls` command is used to display a list of content of a directory.

Syntax:

1. `ls`

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ ls
a          Desktop          examples.desktop  Music          sample
Akash     Directory        hello.c           pico           snap
a.out     Documents        hello.i           Pictures        Templates
composer.phar Downloads        hello.o           project        Test.txt
Demo.sh   eclipse          hello.s           Public         Videos
Demo.txt  eclipse-installer index.html        Python
Demo.txt~ eclipse-workspace mail              Python-3.8.0
```

5. cd Command

The `cd` command is used to change the current directory.

Syntax:

1. `cd <directory name>`

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ cd Desktop
javatpoint@javatpoint-Inspiron-3542:~/Desktop$
```

Linux File commands

6. touch Command

The `touch` command is used to create empty files. We can create multiple empty files by executing it once.

Syntax:

1. `touch <file name>`
2. `touch <file1> <file2>`

Output:

```
javatpoint@javatpoint-Inspiron-3542:~/Newfolder$ touch Demo.txt
javatpoint@javatpoint-Inspiron-3542:~/Newfolder$ touch Demo1.txt Demo2.txt
javatpoint@javatpoint-Inspiron-3542:~/Newfolder$ ls
Demo1.txt  Demo2.txt  Demo.txt
```

7. cat Command

The `cat` command is a multi-purpose utility in the Linux system. It can be used to create a file, display content of the file, copy the content of one file to another file, and more.

Syntax:

1. `cat [OPTION]... [FILE]..`

To create a file, execute it as follows:

1. `cat > <file name>`
2. // Enter file content

Press "**CTRL+ D**" keys to save the file. To display the content of the file, execute it as follows:

1. `cat <file name>`

Output:

```
javatpoint@javatpoint-Inspiron-3542:~/Newfolder$ cat > Demo.txt
This is a text file.
javatpoint@javatpoint-Inspiron-3542:~/Newfolder$ cat Demo.txt
This is a text file.
```

8. rm Command

The `rm` command is used to remove a file.

Syntax:

`rm <file name>`

Output:

```
javatpoint@javatpoint-Inspiron-3542:~/Newfolder$ rm Demo.txt
javatpoint@javatpoint-Inspiron-3542:~/Newfolder$ rm Demo1.txt Demo2.txt
```

9. cp Command

The `cp` command is used to copy a file or directory.

Syntax:

To copy in the same directory:

1. `cp <existing> file name> <new> file name>`

To copy in a different directory:

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ cp demo.txt demo1.txt
javatpoint@javatpoint-Inspiron-3542:~$ cp demo.txt Documents
```

10. mv Command

The `mv` command is used to move a file or a directory from one location to another location.

Syntax:

1. `mv <file> name> <directory> path>`

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ mv demo.txt Directory
```

11. rename Command

The `rename` command is used to rename files. It is useful for renaming a large group of files.

Syntax:

1. `rename 's/old-name/new-name/' files`

For example, to convert all the text files into pdf files, execute the below command:

1. `rename 's/\.txt$/\.pdf/' *.txt`

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ rename 's/\.txt$/\.pdf/' *.txt
javatpoint@javatpoint-Inspiron-3542:~$ ls
a                Desktop          examples.desktop Music      Python-3.8.0
Akash            Directory        hello.c         Newfolder sample
a.out            Documents        hello.i         pico       snap
composer.phar    Downloads        hello.o         Pictures   Templates
demo1.pdf        eclipse          hello.s         project   Test.pdf
Demo.sh          eclipse-installer index.html      Public    Videos
Demo.txt~       eclipse-workspace mail            Python
```

Linux File Content Commands

12. head Command

The **head** command is used to display the content of a file. It displays the first 10 lines of a file.

Syntax:

1. head **<file name>**

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ head Demo.txt
1
2
3
4
5
6
7
8
9
10
```

13. tail Command

The **tail** command is similar to the head command. The difference between both commands is that it displays the last ten lines of the file content. It is useful for reading the error message.

Syntax:

1. tail **<file name>**

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ tail Demo.txt
2
3
4
5
6
7
8
9
10
11
```

14. tac Command

The `tac` command is the reverse of `cat` command, as its name specified. It displays the file content in reverse order (from the last line).

Syntax:

1. `tac <file name>`

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ tac Demo.txt
11
10
9
8
7
6
5
4
3
2
1
```

15. more command

The `more` command is quite similar to the `cat` command, as it is used to display the file content in the same way that the `cat` command does. The only difference between both commands is that, in case of larger files, the `more` command displays screenful output at a time.

In `more` command, the following keys are used to scroll the page:

ENTER key: To scroll down page by line.

Space bar: To move to the next page.

b key: To move to the previous page.

/ key: To search the string.

Syntax:

1. more **<file name>**

Output:

```
;;; gyp.el - font-lock-mode support for gyp files.

;;; Copyright (c) 2012 Google Inc. All rights reserved.
;;; Use of this source code is governed by a BSD-style license that can be
;;; found in the LICENSE file.

;;; Put this somewhere in your load-path and
;;; (require 'gyp)

(require 'python)
(require 'cl)

(when (string-match "python-mode.el" (symbol-file 'python-mode 'defun))
  (error (concat "python-mode must be loaded from python.el (bundled with "
                "recent emacs), not from the older and less maintained "
                "python-mode.el")))

(defadvice python-indent-calculate-levels (after gyp-outdent-closing-parens
                                             activate)
  "De-indent closing parens, braces, and brackets in gyp-mode."
  (when (and (eq major-mode 'gyp-mode)
             (string-match "^ *[])}][,)}]* *$"
               (buffer-substring-no-properties
                (point)
                (point-max))))

--More-- (7%)
```

16. less Command

The **less** command is similar to the **more** command. It also includes some extra features such as 'adjustment in width and height of the terminal.' Comparatively, the **more** command cuts the output in the width of the terminal.

Syntax:

1. less **<file name>**

Output:

```
;;; gyp.el - font-lock-mode support for gyp files.

;; Copyright (c) 2012 Google Inc. All rights reserved.
;; Use of this source code is governed by a BSD-style license that can be
;; found in the LICENSE file.

;; Put this somewhere in your load-path and
;; (require 'gyp)

(require 'python)
(require 'cl)

(when (string-match "python-mode.el" (symbol-file 'python-mode 'defun))
  (error (concat "python-mode must be loaded from python.el (bundled with "
                 "recent emacs), not from the older and less maintained "
                 "python-mode.el")))

(defadvice python-indent-calculate-levels (after gyp-outdent-closing-parens
                                             activate)
```

Linux User Commands

17. su Command

The `su` command provides administrative access to another user. In other words, it allows access of the Linux shell to another user.

Syntax:

1. `su <user name>`

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ su javatpoint
Password:
javatpoint@javatpoint-Inspiron-3542:~$ █
```

18. id Command

The `id` command is used to display the user ID (UID) and group ID (GID).

Syntax:

1. `id`

Output:


```
javatpoint@javatpoint-Inspiron-3542:~$ id
uid=1000(javatpoint) gid=1000(javatpoint) groups=1000(javatpoint),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),116(lpadmin),126(sambashare)
javatpoint@javatpoint-Inspiron-3542:~$
```

19. useradd Command

The `useradd` command is used to add or remove a user on a Linux server.

Syntax:

1. `useradd username`

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ sudo useradd JTP
[sudo] password for javatpoint:
javatpoint@javatpoint-Inspiron-3542:~$
```

20. passwd Command

The `passwd` command is used to create and change the password for a user.

Syntax:

1. `passwd <username>`

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ sudo passwd JTP
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
```

21. groupadd Command

The `groupadd` command is used to create a user group.

Syntax:

1. `groupadd <group name>`

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ sudo groupadd Developer
javatpoint@javatpoint-Inspiron-3542:~$
```

Linux Filter Commands

22. cat Command

The `cat` command is also used as a filter. To filter a file, it is used inside pipes.

Syntax:

1. `cat <fileName> | cat or tac | cat or tac | . . .`

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ cat Demo.txt | tac | cat | cat | tac
1
2
3
4
5
6
7
8
9
10
11
```

23. cut Command

The `cut` command is used to select a specific column of a file. The '-d' option is used as a delimiter, and it can be a space (' '), a slash (/), a hyphen (-), or anything else. And, the '-f' option is used to specify a column number.

Syntax:

1. `cut -d(delimiter) -f(columnNumber) <fileName>`

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ cat >marks.txt
alex-50
alen-70
jon-75
carry-85
celena-90
justin-80
javatpoint@javatpoint-Inspiron-3542:~$ cut -d- -f2 marks.txt
50
70
75
85
90
80
javatpoint@javatpoint-Inspiron-3542:~$
```

24. grep Command

The **grep** is the most powerful and used filter in a Linux system. The 'grep' stands for "**global regular expression print.**" It is useful for searching the content from a file. Generally, it is used with the pipe.

Syntax:

1. `command | grep <searchWord>`

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ cat marks.txt | grep 9
celena-90
```

25. comm Command

The '**comm**' command is used to compare two files or streams. By default, it displays three columns, first displays non-matching items of the first file, second indicates the non-matching item of the second file, and the third column displays the matching items of both files.

Syntax:

1. `comm <file1> <file2>`

Output:

```

javatpoint@javatpoint-Inspiron-3542:~$ comm Demo.txt Demo1.txt
      1
2
      3
comm: file 2 is not in sorted order
     11
      4
      5
     22
     33
6
7
8
9
comm: file 1 is not in sorted order
10
11

```

26. sed command

The **sed** command is also known as **stream editor**. It is used to edit files using a regular expression. It does not permanently edit files; instead, the edited content remains only on display. It does not affect the actual file.

Syntax:

1. `command | sed 's/<oldWord>/<newWord>/'`

Output:

```

javatpoint@javatpoint-Inspiron-3542:~$ echo class7 | sed 's/class/jtp/'
jtp7
javatpoint@javatpoint-Inspiron-3542:~$ echo class7 | sed 's/7/10/'
class10

```

27. tee command

The **tee** command is quite similar to the **cat** command. The only difference between both filters is that it puts standard input on standard output and also write them into a file.

Syntax:

1. `cat <fileName> | tee <newFile> | cat or tac |....`

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ cat marks.txt | tee new.txt | cat
alex-50
alen-70
jon-75
carry-85
celena-90
justin-80
javatpoint@javatpoint-Inspiron-3542:~$ cat new.txt
alex-50
alen-70
jon-75
carry-85
celena-90
justin-80
```

28. tr Command

The **tr** command is used to translate the file content like from lower case to upper case.

Syntax:

1. command | tr <'old'> <'new'>

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ cat marks.txt | tr 'prcu' 'PRCU'
alex-50
alen-70
jon-75
CaRRy-85
Celena-90
jUstin-80
```

29. uniq Command

The **uniq** command is used to form a sorted list in which every word will occur only once.

Syntax:

1. command <fileName> | uniq

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ sort marks.txt | uniq
alen-70
alex-50
carry-85
celena-90
jon-75
justin-80
```

30. wc Command

The `wc` command is used to count the lines, words, and characters in a file.

Syntax:

1. `wc <file name>`

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ wc marks.txt
6 6 52 marks.txt
```

31. od Command

The `od` command is used to display the content of a file in different s, such as hexadecimal, octal, and ASCII characters.

Syntax:

1. `od -b <fileName>` // Octal format
2. `od -t x1 <fileName>` // Hexa decimal format
3. `od -c <fileName>` // ASCII character format

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ od -b marks.txt
0000000 141 154 145 170 055 065 060 012 141 154 145 156 055 067 060 012
0000020 152 157 156 055 067 065 012 143 141 162 162 171 055 070 065 012
0000040 143 145 154 145 156 141 055 071 060 012 152 165 163 164 151 156
0000060 055 070 060 012
0000064
javatpoint@javatpoint-Inspiron-3542:~$ od -t x1 marks.txt
0000000 61 6c 65 78 2d 35 30 0a 61 6c 65 6e 2d 37 30 0a
0000020 6a 6f 6e 2d 37 35 0a 63 61 72 72 79 2d 38 35 0a
0000040 63 65 6c 65 6e 61 2d 39 30 0a 6a 75 73 74 69 6e
0000060 2d 38 30 0a
0000064
javatpoint@javatpoint-Inspiron-3542:~$ od -c marks.txt
0000000 a l e x - 5 0 \n a l e n - 7 0 \n
0000020 j o n - 7 5 \n c a r r y - 8 5 \n
0000040 c e l e n a - 9 0 \n j u s t i n
0000060 - 8 0 \n
0000064
```

32. sort Command

The `sort` command is used to sort files in alphabetical order.

Syntax:

1. sort <file name>

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ sort marks.txt
alen-70
alex-50
carry-85
celena-90
jon-75
justin-80
```

33. gzip Command

The `gzip` command is used to truncate the file size. It is a compressing tool. It replaces the original file by the compressed file having '.gz' extension.

Syntax:

1. gzip <file1> <file2> <file3>...

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ gzip Demo.txt Demo1.txt
javatpoint@javatpoint-Inspiron-3542:~$ ls
a          Demo.txt.gz      examples.desktop  Music        Python-3.8.0
Akash     Desktop          hello.c           Newfolder   sample
a.out     Directory        hello.i           new.txt     snap
composer.phar Documents        hello.o           pico        Templates
demo1.pdf Downloads        hello.s           Pictures    Test.pdf
Demo1.txt.gz eclipse          index.html       project     Videos
Demo.sh   eclipse-installer mail              Public
Demo.txt~ eclipse-workspace marks.txt        Python
```

34. gunzip Command

The `gunzip` command is used to decompress a file. It is a reverse operation of `gzip` command.

Syntax:

1. gunzip <file1> <file2> <file3>..

Output:

```

jvatpoint@jvatpoint-Inspiron-3542:~$ gunzip Demo.txt Demo1.txt
jvatpoint@jvatpoint-Inspiron-3542:~$ ls
a                Demo.txt~       examples.desktop  Music           Python-3.8.0
Akash           Desktop         hello.c           Newfolder      sample
a.out           Directory       hello.i           new.txt        snap
composer.phar   Documents       hello.o           pico           Templates
demo1.pdf        Downloads       hello.s           Pictures        Test.pdf
Demo1.txt        eclipse         index.html        project        Videos
Demo.sh          eclipse-installer mail              Public
Demo.txt         eclipse-workspace marks.txt         Python

```

Linux Utility Commands

35. find Command

The **find** command is used to find a particular file within a directory. It also supports various options to find a file such as by name, by type, by date, and more.

The following symbols are used after the find command:

(.) : For current directory name

(/) : For root

Syntax:

1. `find . -name "*.pdf"`

Output:

```

jvatpoint@jvatpoint-Inspiron-3542:~$ find . -name "*.pdf"
./Test.pdf
./Python-3.8.0/Doc/library/turtle-star.pdf
./Akash/Joomla/Original Copy/Brochure-Joomla-2019.pdf
./Akash/Joomla/Original Copy/Joomla-Guide-Final.pdf
./local/share/Trash/files/2400966-250544e72f817db3bcef-1587140240830.pdf
./local/share/Trash/files/2400966-3ad982eaa58c5d43fb53-1585763620407.pdf
find: './.anydesk/incoming': Permission denied
./Downloads/ConfirmationPage_20030070774.pdf
./demo1.pdf
find: './.dbus': Permission denied
find: './.cache/dconf': Permission denied
./Directory/demo.pdf
./Directory/demo2.pdf
./Directory/demo1.pdf

```

36. locate Command

The **locate** command is used to search a file by file name. It is quite similar to find command; the difference is that it is a background process. It searches the file in the database, whereas the find command searches in the file system. It is faster than the

find command. To find the file with the locates command, keep your database updated.

Syntax:

1. locate <file name>

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ locate sysctl.conf
/etc/sysctl.conf
/etc/sysctl.d/99-sysctl.conf
/etc/ufw/sysctl.conf
/snap/core/8935/etc/sysctl.conf
/snap/core/8935/etc/sysctl.d/99-sysctl.conf
/snap/core/9066/etc/sysctl.conf
/snap/core/9066/etc/sysctl.d/99-sysctl.conf
/snap/core18/1705/etc/sysctl.d/99-sysctl.conf
/snap/core18/1754/etc/sysctl.d/99-sysctl.conf
/usr/share/doc/procps/examples/sysctl.conf
/usr/share/man/man5/sysctl.conf.5.gz
```

37. date Command

The `date` command is used to display date, time, time zone, and more.

Syntax:

1. date

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ date
Fri May 22 21:51:05 IST 2020
```

38. cal Command

The `cal` command is used to display the current month's calendar with the current date highlighted.

Syntax:

1. cal<

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ cal
      May 2020
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
```

39. sleep Command

The `sleep` command is used to hold the terminal by the specified amount of time. By default, it takes time in seconds.

Syntax:

1. `sleep <time>`

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ sleep 4
```

40. time Command

The `time` command is used to display the time to execute a command.

Syntax:

1. `time`

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ time
real    0m0.000s
user    0m0.000s
sys     0m0.000s
```

41. zcat Command

The `zcat` command is used to display the compressed files.

Syntax:

1. `zcat <file name>`

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ ls
a                Demo.txt.gz      examples.desktop Music      Python-3.8.0
Akash           Desktop          hello.c          Newfolder sample
a.out           Directory        hello.i          new.txt    snap
composer.phar  Documents        hello.o          pico       Templates
demo1.pdf       Downloads        hello.s          Pictures   Test.pdf
Demo1.txt       eclipse          index.html      project    Videos
Demo.sh         eclipse-installer mail              Public
Demo.txt~      eclipse-workspace marks.txt        Python
```

```
javatpoint@javatpoint-Inspiron-3542:~$ zcat Demo.txt
1
2
3
4
5
6
```

42. df Command

The **df** command is used to display the disk space used in the file system. It displays the output as in the number of used blocks, available blocks, and the mounted directory.

Syntax:

1. **df**

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ df
Filesystem      1K-blocks    Used Available Use% Mounted on
udev            1931652         0   1931652  0% /dev
tmpfs           393260         1756   391504  1% /run
/dev/sda1       479668904 26471148 428762148  6% /
tmpfs           1966284     243536   1722748 13% /dev/shm
tmpfs            5120           4     5116  1% /run/lock
tmpfs           1966284         0   1966284  0% /sys/fs/cgroup
/dev/loop1      231936     231936         0 100% /snap/wine-platform-runtime/136
/dev/loop2      144128     144128         0 100% /snap/gnome-3-26-1604/98
/dev/loop4        384         384         0 100% /snap/gnome-characters/539
/dev/loop6      220160     220160         0 100% /snap/wine-platform-5-stable/4
/dev/loop5      164096     164096         0 100% /snap/gnome-3-28-1804/116
```

43. mount Command

The **mount** command is used to connect an external device file system to the system's file system.

Syntax:

1. mount -t type <device> <directory>

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ mount
sysfs on /sys type sysfs (rw,nosuid,nodev,noexec,relatime)
proc on /proc type proc (rw,nosuid,nodev,noexec,relatime)
udev on /dev type devtmpfs (rw,nosuid,relatime,size=1931652k,nr_inodes=482913,mode=755)
devpts on /dev/pts type devpts (rw,nosuid,noexec,relatime,gid=5,mode=620,ptmxmode=000)
tmpfs on /run type tmpfs (rw,nosuid,noexec,relatime,size=393260k,mode=755)
/dev/sda1 on / type ext4 (rw,relatime,errors=remount-ro)
securityfs on /sys/kernel/security type securityfs (rw,nosuid,nodev,noexec,relatime)
tmpfs on /dev/shm type tmpfs (rw,nosuid,nodev)
```

44. exit Command

Linux **exit** command is used to exit from the current shell. It takes a parameter as a number and exits the shell with a return of status number.

Syntax:

1. exit

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ exit
```

After pressing the ENTER key, it will exit the terminal.

45. clear Command

Linux **clear** command is used to clear the terminal screen.

Syntax:

1. clear

Output:

```

javatpoint@javatpoint-Inspiron-3542:~$ ls
a                Demo.txt.gz      examples.desktop Music      Python-3.8.0
Akash           Desktop          hello.c         Newfolder sample
a.out          Directory        hello.i         new.txt    snap
composer.phar  Documents        hello.o         pico       Templates
demo1.pdf      Downloads        hello.s         Pictures   Test.pdf
Demo1.txt      eclipse          index.html     project    Videos
Demo.sh        eclipse-installer mail            Public
Demo.txt~     eclipse-workspace marks.txt       Python
javatpoint@javatpoint-Inspiron-3542:~$ clear

```

After pressing the ENTER key, it will clear the terminal screen.

Linux Networking Commands

46. ip Command

Linux `ip` command is an updated version of the `ipconfig` command. It is used to assign an IP address, initialize an interface, disable an interface.

Syntax:

1. `ip a` or `ip addr`

Output:

```

javatpoint@javatpoint-Inspiron-3542:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp7s0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc fq_codel state DOWN group default qlen 1000
    link/ether 74:e6:e2:02:93:b8 brd ff:ff:ff:ff:ff:ff
3: wlp6s0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default qlen 1000
    link/ether 00:71:cc:00:e2:89 brd ff:ff:ff:ff:ff:ff
    inet 192.168.43.240/24 brd 192.168.43.255 scope global dynamic noprefixroute wlp6s0
        valid_lft 2296sec preferred_lft 2296sec
    inet6 fe80::8c59:e84e:1670:27cc/64 scope link noprefixroute
        valid_lft forever preferred_lft forever

```

47. ssh Command

Linux `ssh` command is used to create a remote connection through the ssh protocol.

Syntax:

1. ssh user_name@host(IP/Domain_name) </p>

48. mail Command

The **mail** command is used to send emails from the command line.

Syntax:

1. mail -s "Subject" <recipient address>

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ mail -s "Hello World" Himanshudubey481@gmail.com
Cc:
Hello There
Hope you are doing well.
```

49. ping Command

The **ping** command is used to check the connectivity between two nodes, that is whether the server is connected. It is a short form of "Packet Internet Groper."

Syntax:

1. ping <destination>

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ ping javatpoint.com
PING javatpoint.com (194.169.80.121) 56(84) bytes of data.
64 bytes from www.javatpoint.com (194.169.80.121): icmp_seq=1 ttl=48 time=3889 m
s
64 bytes from www.javatpoint.com (194.169.80.121): icmp_seq=2 ttl=48 time=3043 m
s
64 bytes from www.javatpoint.com (194.169.80.121): icmp_seq=3 ttl=48 time=2136 m
s
64 bytes from www.javatpoint.com (194.169.80.121): icmp_seq=4 ttl=48 time=1122 m
s
```

50. host Command

The **host** command is used to display the IP address for a given domain name and vice versa. It performs the DNS lookups for the DNS Query.

Syntax:

1. host <domain name> or <ip address>

Output:

```
javatpoint@javatpoint-Inspiron-3542:~$ host javatpoint.com
javatpoint.com has address 194.169.80.121
```
