1. To check the current location – pwd
2. How to display the name of the current logged in user – whoami
3. How to display system date and time – date
4. How to display files and directory present in current loc – ls -lh
5. How to clear a linux terminal – clear or shortcut is ctrl+l
6. How to display content of a file – cat file\_name
7. How to search a string in a big file – less <file\_name>, to search press /<string\_name> to search the next instance of that word press n**(Use grep that’s much better)**
8. How to move to the end of the file – less <file\_name> , to move to end press Shift+g to go back to first line press p
9. How to search for a string from the bottom of the file – less <file\_name>, shift+g, to search - ?<string-name>
10. To quit the file – press q
11. How to view a file page by page – more <file\_name>
12. How to create a file in linux – touch file\_name
13. How to delete a file in linux – rm file\_name
14. How to edit a file in linux – vi file\_name or nano file\_name(ctl+x,y,enter)
15. How to create a directory in linux - mkdir foldername
16. How to delete a directory in linux – rmdir folder\_name or rm -rf folder\_name
17. How to change directory in linux – cd folder\_name
18. How to copy a file – cp file1 dest\_path(eg cp ../file1.txt .) – this will go back one dir, find file1.txt and paste it in pwd or cp file1 file2
19. How to move or rename a file – mv file\_name des\_path or mv file\_name new\_file\_name
20. How to read or display top 5 lines from a file – head -5 file\_name
21. How to display bottom 5 lines of a file – tail -5 file\_name
22. How to sort the content of a file – sort file\_name or to reverse sort sort -r file\_name
23. How to display unique content from a file or remove duplicate contents– sort file\_name | uniq
24. A file has 3 lines. How to split this file in 3 different files in linux – split -l 3 filename
25. How to search a word and display matching content from a file - grep “word” filename
26. How to search multiple words and display the matching content from a file – egrep “word1|word2” filename
27. How to print only .cpp files in a directory – ls \*.cpp(\*, {} are all wild cards)
28. How to create 10 files in one go – touch file{1..10}.cpp
29. How to shuffle content of a file in linux – shuf filename
30. How to count no of lines in a file in linux – wc -l filename
31. How to check if 2 files are same or not – cmp file1 file2
32. How to compare and display differences between 2 files in linux – diff -u file1 file2
33. How to directly jump to home directory – cd
34. How to go back to the last directory you were in - cd –
35. How to find a file path in linux – find /dir\_u\_want\_to\_find\_in -name filename(But this takes longer since it goes into each directory to check the file)
36. How to find a file (better way) – updatedb | locate filename(But u need locate pkg for that – sudo apt install locate)
37. How to view previously used commands – history
38. How to check syntax and options available for a command – command –help
39. How to read or get more info on a command – man command
40. How to check the location of the executable – which command
41. How to use calculator in linux – bc(binary calculator)
42. How to check calender in linux – cal or cal year
43. How to check how long the server has been running, no of users and load average– uptime
44. How to record your activity on a terminal in a file(this gives both cmd and op) – script, and to stop recording press ctrl + d
45. How to create a shortcut for a long command in linux – alias var\_name=”command” eg – alias fsd=”systemctl status fast-shutdown”
46. How to check the existing alias – alias -p
47. How to compress a file – gzip -k filename(k means keep the original file, the zipped file will be a .gz file)
48. How to decompress a file in linux – gzip -d filename or gunzip filename
49. How to compress a folder – tar -czf <foldername.tar.gz> foldername/
50. How to decompress a folder - tar -xzf <foldername.tar.gz>
51. How to zip multiple files into a single file – zip zip\_file\_name file1 file2
52. How to unzip a file- - unzip zip\_file\_name
53. How to list files in a zipped file – unzip -l zip\_file\_name
54. How to download a file from the internet – wget <url\_path>
55. How to download a file with some other name from the internet – wget -O download\_file\_name name\_to\_save\_as
56. How to call an api – curl api\_link (Eg: - curl <http://numbersapi.com/random>)
57. How to install an application – apt or yum/dnf
58. How to check if an application is installed or not - apt list --installed | grep <package\_name> , for rpm – rpm -qa | grep pkg-name
59. How to list available packages to install in linux – apt search pkg\_name (yum/dnf list available)
60. How to start and stop a service – systemctl start service / systemctl stop service
61. How to list all services - systemctl list-units –type=service –all
62. How to list all existing env variables – printenv
63. How to add a new env variable for temporary session– export env\_name=”path\_to\_exe”
64. How to add an env variable permanently for user - echo ‘export MY\_VAR=”My\_user”’ >> ~/.bashrc(for bash users)

For all shell types – echo ‘export MY\_VAR=”My\_user”’ >> ~/.profile

To set permanently –

echo 'export MY\_GLOBAL\_VAR="GlobalValue"' | sudo tee -a /etc/profile

source /etc/profile

1. Which command allows you to display all the pids of running nginix process

pidof nginix

1. How to print a specific column from a csv file

awk -F {separator} ‘{print $column}’

eg – awk -F , ‘{print $2}’

1. How to display starting 2 characters of a line

Cmd – cut -c1-2 filename

1. How to display a specific line from a file

Cmd – sed -n ‘5p’ filename

1. How to replace a specific word within a file

Cmd – sed -n ‘s/from/to/g’ file.txt

1. How to extend or shrink a file

Cmd – truncate -s 100M filename

1. How to change user

Cmd – su username

1. How to login as a super user

Cmd – sudo su

1. How to exit as a current user or close terminal in linux

exit

1. How to access remote linux server

Cmd – ssh user@ip\_address

1. How to copy a file to a linux server

Cmd – scp file user@ip\_address:/path\_to\_save

1. How to check permissions of a file

Cmd – ls -l

1. How to modify permissions of a file

Cmd – chmod u=rwx,g=rw,o=r filename here u means user, g means group, o means other and a means all

1. How to change the ownership of a file

Cmd – chown name filename

1. How to change group ownership of a file

Cmd – chgrp grp\_name filename

1. How to check free ram space

free

1. How to check % memory and cpu utilization

Top

1. How to check disk utilization

Using du command

1. How to check file system available and disk space allocated

Using df command

1. How to check hostname

Using hostname

1. How to check no of cpu’s, architecture info

Using lscpu command or cat /etc/proc/cpuinfo

1. How to check the type of architecture

Using arch command

1. How to check list of storage devices, disk partitioning

Using lsblk command

1. How to see os name

Uname -a or cat /etc/os-release

1. How to check if a process is running or not

Using ps -ef | grep process\_name

1. How to get pid of a process

Using pgrep process\_name or pidof psname

1. How to stop a process by id and name

Using kill pid or pkill psname, to forcefully kill – kill -9 pid or pkill -9 psname

1. How to see all the active jobs

Using jobs command

1. How to resume a job in background and foreground

Using bg and fg command

1. How to run a script in the background

Using nohup ./script\_name >/dev/null &

1. How to check if a website is accessible or not

Using ping server\_address . eg – ping [www.google.com](http://www.google.com)

1. How to check if a ip port is accessible or not

Using telnet IP\_address port\_number

1. How to check if port is open or not on our server

Using netstat -putan | grep 80

1. How to check all hubs in network path to reach a website

Using traceroute command

1. How to restart linux server

Using reboot command

1. How to shutdown a linux server

Using shutdown command

1. How to create a new user on linux server

Using useradd command

1. How to check id of a user

Using id username command

1. How to change password of a user

Using passwd command

1. How to create a new group on a linux server

Using groupadd command

1. How to check how many groups are added

Using cat/etc/group

1. How to check userid or groupid of a user

Using id user you get user id, group id

1. How to delete a user or a group

Using userdel user or groupdel groupname

1. How to add a user to a group

usermod -G group\_name username

1. How to schedule a script to run on a particular date/time

Using at or crontab command

1. How to save op of a cmd to a file

Using cmd > filename

1. How to append op of a command to an existing file

Using cmd >> filename

1. How to save both error and o/p of a cmd to a file

Using cmd > filename 2>&1

1. How to print only the bb files in a directory

Using ls \*.bb

1. How to create and remove 100 files

To create 100 files – touch file{1..100}

To remove 100 files – rm file{1..100}

1. How to list all files with names a123, b123, c123,,,z123

Using wildcard ? – ls ?123 here ? will only find one character

1. How to find file names starting from a,b or c

Command – ls [abc]\*

1. How to list files that contain numeric values

Command – ls \*[1-9]\*

1. How to list all files that donot contain letter “e” in their name

Using ls| grep -v’e’