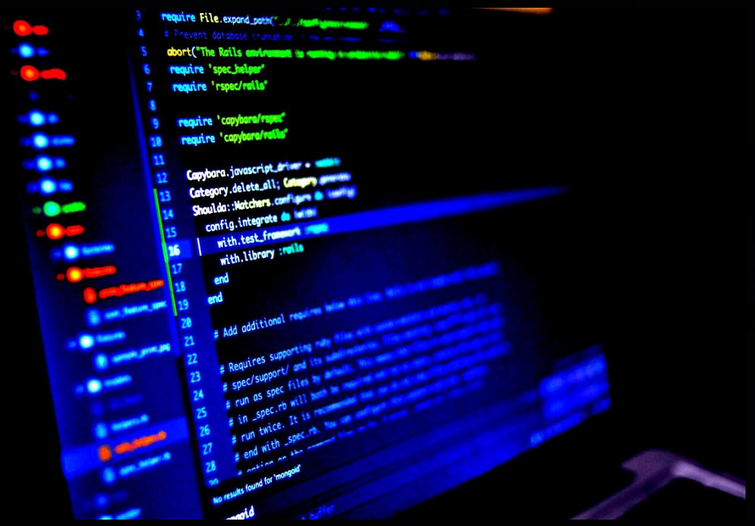
LINUX

100+ COMMANDS



Get Ready with your Linux Setup for Practise

How to check your current location?

#pwd

1

How to display name of current logged-in user?

#whoami

2

How to check system date or time?

```
#date

#date %D
```

3

How to display files and directory present in current location?

```
#ls

#ls -lt
```

4

How to clear the linux terminal?

```
#clear
```

5

Creating
Deleting
Editing.

How to display content of a file on terminal?

```
#cat <file>
```

6

How to read a file and Search for a word?

```
#less <file>
```

7

How to view content of a file page by page?

```
#more <file>
```

8

How to create a file in Linux?

```
#touch <file_name>
```

9

How to delete a file in Linux?

```
#rm <file_name>
```

10

How to edit a file in Linux?

```
#vi <file_name>

#nano <file_name>
```

11,12

How to create a directory/folder in Linux?

```
#mkdir <dir_name>
```

13

How to delete a directory/folder in Linux?

```
#rmdir <dir_name>

#rm -rf <dir_name>
```

14,15

How to change path or move to another folder in Linux?

```
#cd /path/folder

#cd ..
```

16

How to copy and paste a file from one folder to another in Linux?

```
#cp <file> /dest/path
```

17

How to copy content of a file to another file in Linux?

```
#cp fileA fileB
```

18

How to cut - paste a file from one folder to another in Linux?

```
#mv <file> /dest/path
```

19

How to rename a file in Linux?

```
#mv fileA fileNewName
```

19

How to read or diplay top 5 lines from a file in Linux?

```
#head -5 file
```

20

How to read or diplay bottom 5 lines from a file in Linux?

```
#tail -5 file
```

21

How to SORT the content from a file in Linux?

```
#sort file

#sort -r file
```

22

How to display UNIQUE content from a file in Linux?

```
#sort file | uniq
```

23

A file has 9 lines.
How to split this file in 3 different files in Linux?

```
#split -l 3 file
```

24

How to search a word and display matching content from a file in Linux?

```
#grep "word" file
```

25

How to search multiple words and display matching content from a file in Linux?

```
#egrep "word1|word2" file
```

26

How to use WILDCARDS in Linux?

* [] {}

```
#ls file*

#touch file{1..5}
```

27

How to SHUFFLE content of file in Linux?

```
#shuf file
```

28

How to COUNT no. of lines in a file in Linux?

```
#wc -l file
```

29

How to check if two files are identical or not in Linux?

```
#cmp fileA fileB
```

30

How to compare and display difference between two files in Linux?

```
#diff -u fileA fileB
```

31

How to find a file in Linux?

```
#find /path/ -name <file>
```

32

How to find a file in Linux?

```
#updatedb

#locate <file>
```

33,34

Utility Commands

How to display previously used commands in past?

```
#history
```

35

How to check syntax and options available for a command?

```
#help
```

36

How to read or get mor info about a command?

```
#man
```

37

How to check which executable is using for a command?

#which

38

How to use calculator in Linux?

#bc

39

How to check CALENDAR of last year in Linux?

```
#cal
```

40

How to check How Long server has been running in Linux?

#uptime

41

How to record your activity on termial in a file?

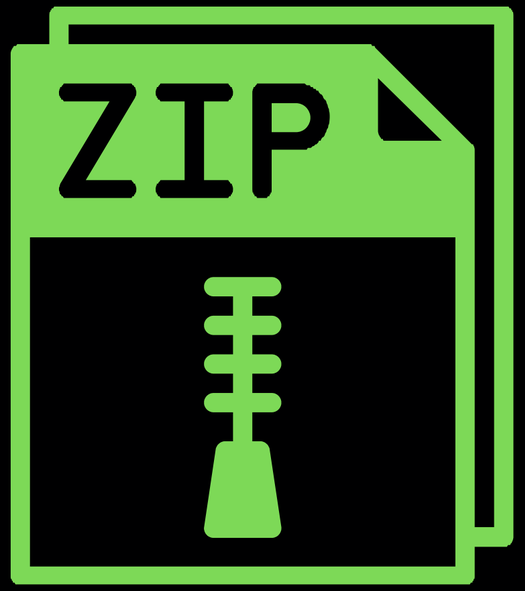
#script

How to create a short-cut of a long command in Linux?

```
#alias l="ls -ltr"
```

43

Zip and Unzip of Files and Folders



How to compress a file in Linux?

```
#gzip -k file
```

44

How to decompress a file in Linux?

```
#gzip -d file

#gunzip file
```

45,46

How to compress a folder in Linux?

```
#tar -czf myfiles.tar.gz myfiles/
```

47

How to decompress a folder in Linux?

```
#tar -xzf myfiles.tar.gz
```

47

How to compress multiple files in one zipped file in Linux?

```
#zip myfiles.zip file1 file2
```

48

How to list files in zipped file?

```
#unzip -l myfiles.zip
```

48

Downloading Files from Internet

How to download a file from internet?

```
#wget URL_of_file

#wget -O opt_file.txt URL_Of_file
```

49

How to call an API on Linux?

```
#curl http://numbersapi.com/random
```

50

How to install an application on Linux?

```
#apt or yum/dnf
```

51

How to check if an application is installed or not on Linux?

```
#rpm -qa | grep app

#dnf list installed
```

How to list available packages to install on Linux?

```
#apt search <package_name>

#yum/dnf list available
```

53

How to start/stop a service on Linux?

```
#systemctl start/stop service_name
```

54

How to list all services on Linux?

```
#systemctl list-units --type=service --all
```

55

How to list all existing Environment Variables on Linux?

```
#printenv
```

56

How to ADD a new Environment Variables on Linux?

```
#export JAVA_HOME="/usr/lib/jvm/java_v"

#export PATH=$JAVA_HOME/bin:$PATH
```

57

How to ADD a new Environment Variables permanently on Linux?

```
Add env variable in ./bashrc file

#source ~/.bash_profile
```

58

How to print a specific column from a CSV file?

```
#awk -F ,'{print $2}' file.csv
```

59

How to display starting two characters of all line?

```
#cut -c1-2 file.txt
```

60

How to display a specific line from a file?

```
#sed -n '5p' file.txt
```

61

How to replace a specific word within a file?

```
#sed -n 's/from/to/g' file.txt
```

61

How to convert the content to Uppercase or Lowercase within a file?

```
#tr [:lower:] [:upper:] <file.txt

#tr [:punct:] Z <file.txt

#tr [:digit:] Z <file.txt
```

62

How to extend or shrink size of a file?

```
#truncate -s 100M file.txt
```

63

How to display following line in vertical line? ABCDE

```
#echo "ABCDE" | fold -w1
```

64

How to change user or login as different user in linux?

```
#su <user_name>
```

65

How to exit as current user or close terminal in linux?

```
#exit
```

66

If you are not root user, how to execute admin commands like installing new apps?

```
#sudo yum install httpd
```

67

Access Remote Servers

How to access remote Linux server?

```
#ssh user@hostname
```

68

How to copy a file to a remote Linux server?

```
#scp file user@hostname:/tmp/
```

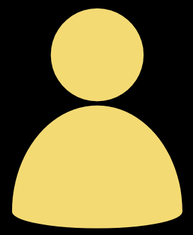
69

Working with Permissions

How to check permissions of a file?

```
#ls -ltr

rwx   rw-   r--
```



user group other

How to modify permissions of a file?

```
#chmod a+rwx file.txt
```

```
u - user, g - group, o - other
```

```
a - all
```

70

How to change ownership of a file?

```
#chown root file.txt
```

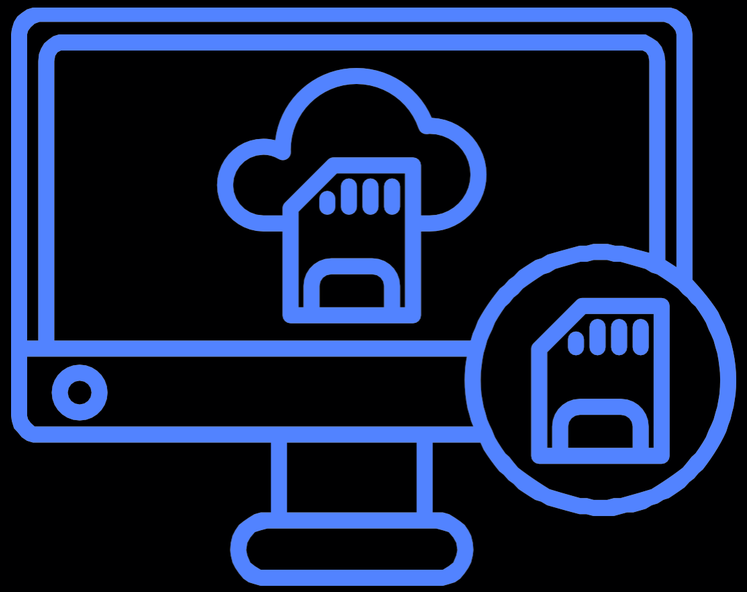
71

How to change group ownership of a file?

```
#chgrp paul file.txt
```

72

Memory Info



How to check free RAM space?

```
#free
```

73

How to check % Memory and CPU Utilization?

```
#top
```

74

How to check disk Utilization?

```
#du
```

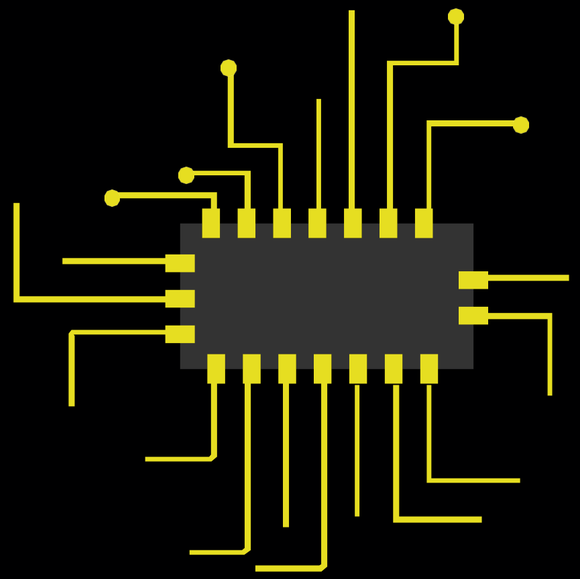
75

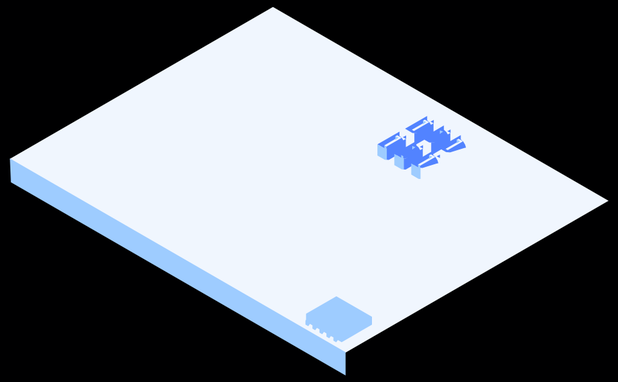
How to check filesystem available and disk space allocated?

```
#df
```

76

System INFO





How to check hostname of your linux server?

```
#hostname
```

77

How to check cpu/core/thread info of your linux server?

```
#lscpu
```

78

How to check type of architecture of your linux server?

#arch

79

How to see list of storage devices, disk partition on your linux server?

```
#lsblk
```

80

How to see OS name of linux server?

```
#uname -a
```

81

Process Management

How to check if a process(java) is running or not?

```
#ps -ef | grep java
```

How to get PID of a process?

```
#pgrep chron
```

How to stop a process by PID?

```
#kill -9 PID
```

How to stop a process by its name?

```
#pkill httpd
```

How to see all the active jobs?

```
#jobs
```

How to resume a job in background?

#bg

87

How to resume a job in foreground?

```
#fg
```

88

How to run a script in background?

```
#nohup ./script >/dev/null &
```

Networking Info

How to check IP of your machine?

```
#ifconfig
```

How to check if a server or website is accesible or not?

```
#ping www.google.com
```

How to check if a IP:PORT is accessible and open or not?

```
#telnet IP Port
```

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

```
#netstat -putan | grep 80
```

How to check all hubs in network path to reach a website?

#traceroute

94

How to restart our linux server?

```
#reboot
```

95

How to shutdown our linux server?

#shutdown

96

User Creation

How to create a new user on our linux server?

```
#useradd
```

97

How to change password for the user?

```
#passwd
```

How to create a new group on our linux server?

```
#groupadd
```

99

How to check UserID or GroupID of a user?

```
#id user
```

100

How to delete a user or group?

```
#userdel <user>

#groupdel <group>
```

101,2

How to schedule a script to run on a particular date/time?

#at

#crontab

103,4

THANK YOU!

USER MANAGEMENT

- useradd
- groupadd
- usermod
- userdel
- groupdel
- passwd
- id

NETWORKING

- ifconfig
- ping
- netstat
- traceroute
- telnet

PROCESS MANAGEMENT

- `sleep`
- `ps`
- `pgrep`
- `kill`
- `pkill`
- `jobs`
- `bg`
- `fg`
- `nohup`

SYSTEM INFO

- `hostname`
- `lscpu`
- `arch`
- `lsblk`
- `uname -a`

MEMORY INFO

- `top`
- `free`
- `du`
- `df`

CHANGE USER & REMOTE SERVER ACCESS

- `su`
  `sudo`
- `exit`
- `ssh`
- `scp`
-

FILE PERMISSIONS

- `chmod`
- `chown`
- `chgrp`
-

TEXT PROCESSING

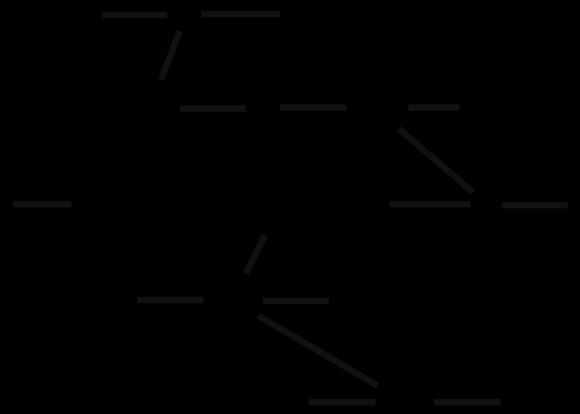
- awk
- cut
- sed
- tr
- truncate
- fold

ENV VARIABLES

- `printenv`
  `export`
- `source`

INSTALL & MANAGE APPLICATIONS

- `apt or yum/dnf`
- `dpkg or rpm`
- `systemctl`
-



DOWNLOAD FILES

- `wget`
- `curl`

COMPRESS
DECOMPRESS

- tar
  gzip
- gunzip
- zip
- unzip

OTHER USEFUL COMMANDS

- `history`
- `help`
- `man`
- `which`
- `bc`
- `cal`
- `script`
- `uptime`
- `alias`

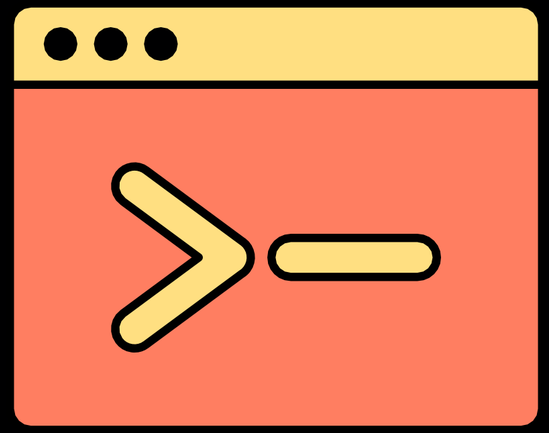
- shuf
- wc
- diff
- cmp
- find
- locate

- `cd`
- `cp`
- `mv`
- `grep`
- `egrep`
- `head`
- `tail`
- `sort`
- `uniq`
- `split`
-

FILES & DIRECTORIES MANAGEMENT

- `cat`
- `less`
- `more`
- `touch`
- `rm`
- `vi`
- `nano`
- `mkdir`
- `rmdir`

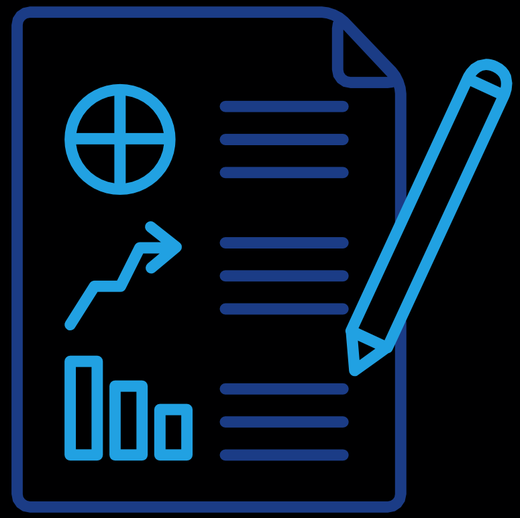
Some Useful Utility Commands



Installing Applications

Environment Variables

String/Text Operations



Working with Permissions

Scripting and Automating task

SCRIPTING & AUTOMATION

- at
- crontab
- bash or sh

SYSTEM CONTROL

- `reboot`
- `shutdown`

FIREWALL SETTINGS

- `firewall-cmd --list-all`
- `firewall-cmd --add-port=20201/tcp`