**Top 100 Linux Commands**

1. How to check your current location?

**Command:** pwd

1. How to display name of current logged-in user?

**Command:** whoami

1. How to check system date or time?

**Command:** date

**Command:** date %D

1. How to display files and directory present in current location?

**Command:** ls

**Command:** ls -lt

1. How to clear the linux terminal?

**Command:** clear

**Creating Deleting Editing.**

1. How to display content of a file on terminal?

**Command:** cat <file>

1. How to read a file and Search for a word?

**Command:** less <file>

1. How to view content of a file page by page?

**Command:** more <file>

1. How to create a file in Linux?

**Command:** touch <file\_name>

1. How to delete a file in Linux?

**Command:** rm <file\_name>

1. How to edit a file in Linux?

**Command:** vi <file\_name>

**Command:** nano <file\_name>

1. How to create a directory/folder in Linux?

**Command:** mkdir <dir\_name>

1. How to delete a directory/folder in Linux?

**Command:** rmdir <dir\_name>

**Command:** rm -rf <dir\_name>

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

**Command:** cd /path/folder

**Command:** cd ..

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

**Command:** cp <file> /dest/path

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

**Command:** cp fileA fileB

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

**Command:** mv <file> /dest/path

1. How to rename a file in Linux?

**Command:** mv fileA fileNewName

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

**Command:** head -5 file

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

**Command:** tail -5 file

1. How to SORT the content from a file in Linux?

**Command:** sort file

**Command:** sort -r file

1. How to display UNIQUE content from a file in Linux?

**Command:** sort file | uniq

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

**Command:** split -l 3 file

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

**Command:** grep "word" file

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

**Command:** egrep "word1|word2" file

1. How to use WILDCARDS (\* [] {}) in Linux?

**Command:** ls file\*

**Command:** touch file{1..5}

1. How to SHUFFLE content of file in Linux?

**Command:** shuf file

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

**Command:** wc -l file

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

**Command:** cmp fileA fileB

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

**Command:** diff -u fileA fileB

1. How to find a file in Linux?

**Command:** find /path/ -name <file>

1. How to find a file in Linux?

**Command:** updatedb

**Command:** locate <file>

**Utility Commands**

1. How to display previously used commands in past?

**Command:** history

1. How to check syntax and options available for a command?

**Command:** help

1. How to read or get mor info about a command?

**Command:** man

1. How to check which executable is using for a command?

**Command:** which

1. How to use calculator in Linux?

**Command:** bc

1. How to check CALENDAR of last year in Linux?

**Command:** cal

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

**Command:** uptime

1. How to record your activity on terminal in a file?

**Command:** script

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

**Command:** alias l="ls -ltr"

**Zip and Unzip of Files and Folders**

1. How to compress a file in Linux?

**Command:** gzip -k file

1. How to decompress a file in Linux?

**Command:** gzip -d file

**Command:** gunzip file

1. How to compress a folder in Linux?

**Command:** tar -czf myfiles.tar.gz myfiles/

1. How to decompress a folder in Linux?

**Command:** tar -xzf myfiles.tar.gz

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

**Command:** zip myfiles.zip file1 file2

1. How to list files in zipped file?

**Command:** unzip -l myfiles.zip

**Downloading Files from Internet**

1. How to download a file from internet?

**Command:** wget URL\_of\_file

**Command:** wget -O opt\_file.txt URL\_Of\_file

1. How to call an API on Linux?

**Command:** curl http://numbersapi.com/random

1. How to install an application on Linux?

**Command:** apt or yum/dnf

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

**Command:** rpm -qa | grep app

**Command:** dnf list installed

1. How to list available packages to install on Linux?

**Command:** apt search <package\_name>

**Command:** yum/dnf list available

1. How to start/stop a service on Linux?

**Command:** systemctl start/stop service\_name

1. How to list all services on Linux?

**Command:** systemctl list-units --type=service --all

1. How to list all existing Environment Variables on Linux?

**Command:** printenv

1. How to ADD a new Environment Variables on Linux?

**Command:** export JAVA\_HOME="/usr/lib/jvm/java\_v"

**Command:** export PATH=$JAVA\_HOME/bin:$PATH

1. How to ADD a new Environment Variables permanently on Linux?

Add env variable in ./bashrc file

**Command:** source ~/.bash\_profile

1. How to print a specific column from a CSV file?

**Command:** awk -F ,'{print $2}' file.csv

1. How to display starting two characters of all line?

**Command:** cut -c1-2 file.txt

1. How to display a specific line from a file?

**Command:** sed -n '5p' file.txt

1. How to replace a specific word within a file?

**Command:** sed -n 's/from/to/g' file.txt

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

**Command:** tr [:lower:] [:upper:] <file.txt

**Command:** tr [:punct:] Z <file.txt

**Command:** tr [:digit:] Z <file.txt

1. How to extend or shrink size of a file?

**Command:** truncate -s 100M file.txt

1. How to display following line invertical line? ABCDE

**Command:** echo "ABCDE" | fold -w1

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

**Command:** su <user\_name>

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

**Command:** exit

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

**Command:** sudo yum install httpd

**Access Remote Servers**

1. How to access remote Linux server?

**Command:** ssh user@hostname

1. How to copy a file to a remote Linux server?

**Command:** scp file user@hostname:/tmp/

**Working with Permissions**

1. How to check permissions of a file?

**Command:** ls -ltr

rwx (User) rw- (Group) r-- (Other)

1. How to modify permissions of a file?

**Command:** chmod a+rwx file.txt

(u - user, g - group, o - other a - all)

1. How to change ownership of a file?

**Command:** chown root file.txt

1. How to change group ownership of a file?

**Command:** chgrp paul file.txt

**Memory Info**

1. How to check free RAM space?

**Command:** free

1. How to check % Memory and CPU Utilization?

**Command:** top

1. How to check disk Utilization?

**Command:** du

1. How to check filesystem available and disk space allocated?

**Command:** df

**System INFO**

1. How to check hostname of your linux server?

**Command:** hostname

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

**Command:** lscpu

1. How to check type of architecture of your linux server?

**Command:** arch

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

**Command:** lsblk

1. How to see OS name of linux server?

**Command:** uname -a

**Process Management**

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

**Command:** ps -ef | grep java

1. How to get PID of a process?

**Command:** pgrep chron

1. How to stop a process by PID?

**Command:** kill -9 PID

1. How to stop a process by its name?

**Command:** pkill httpd

1. How to see all the active jobs?

**Command:** jobs

1. How to resume a job in background?

**Command:** bg

1. How to resume a job in foreground?

**Command:** fg

1. How to run a script in background?

**Command:** nohup ./script >/dev/null &

**Networking Info**

1. How to check IP of your machine?

**Command:** ifconfig

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

**Command:** ping www.google.com

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

**Command:** telnet IP Port

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

**Command:** netstat -putan | grep 80

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

**Command:** traceroute

1. How to restart our linux server?

**Command:** reboot

1. How to shutdown our linux server?

**Command:** shutdown

**User Creation**

1. How to create a new user on our linux server?

**Command:** useradd

1. How to change password for the user?

**Command:** passwd

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

**Command:** groupadd

1. How to check UserID or GroupID of a user?

**Command:** id user

1. How to delete a user or group?

**Command:** userdel <user>

**Command:** groupdel <group>

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

**Command:** at

**Command:** crontab

**Summary**

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

FILES & DIRECTORIES MANAGEMENT

* shuf
* wc
* diff
* cmp
* find
* locate
* cd
* cp
* mv
* grep
* egrep
* head
* tail
* sort
* uniq
* split
* cat
* less
* more
* touch
* rm
* vi
* nano
* mkdir
* rmdir

FIRST TIME ON TERMINAL

* pwd
* whoami
* date
* ls
* clear

SCRIPTING & AUTOMATION

* at
* crontab
* bash or sh

SYSTEM CONTROL

* reboot
* shutdown

FIREWALL SETTINGS

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