

LINUX COMMANDS

Get Ready with your Linux Setup for Practise





How to check your current location?

#pwd

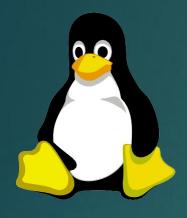




How to display name of current logged-in user?

#whoami





How to check system date or time?

#date

#date %D





How to display files and directory present in current location?

#1s

#1s -1t





How to clear the linux terminal?

#clear



Creating Deleting Editing.





How to display content of a file on terminal?

#cat <file>





How to read a file and Search for a word?

#less <file>





How to view content of a file page by page?

#more <file>





How to create a file in Linux?

#touch <file_name>





How to delete a file in Linux?

#rm <file_name>





How to edit a file in Linux?

```
#vi <file_name>
#nano <file_name>
```



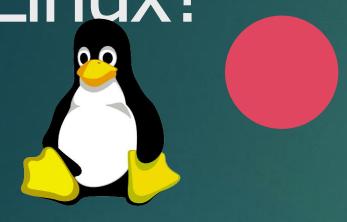


How to create a directory/folder in Linux?

#mkdir <dir_name>



How to delete a directory/folder in Linux?



```
#rmdir <dir_name>
#rm -rf <dir_name>
```



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

```
#cd /path/folder
```

```
#cd ..
```





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

#cp <file> /dest/path





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

#cp fileA fileB





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

#mv <file> /dest/path





How to rename a file in Linux?

#mv fileA fileNewName





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

#head -5 file





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

#tail -5 file





How to SORT the content from a file in Linux?

```
#sort file
```

#sort -r file





How to display UNIQUE content from a file in Linux?

#sort file | uniq





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

#split -1 3 file





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

#grep "word" file





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

#egrep "word1|word2" file





How to use WILDCARDS in Linux? *∏{}

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





How to SHUFFLE content of file in Linux?

#shuf file





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

#wc -1 file





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

#cmp fileA fileB





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

#diff -u fileA fileB





How to find a file in Linux?

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





How to find a file in Linux?

#updatedb

#locate <file>



Utility Commands



How to display previously used commands in past?

#history





How to check syntax and options available for a command?

#help





How to read or get mor info about a command?

#man

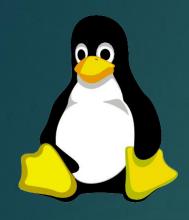




How to check which executable is using for a command?

#which





How to use calculator in Linux?

#bc





How to check CALENDAR of last year in Linux?

#cal





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

#uptime





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"



Zip and Unzip of Files and Folders





How to compress a file in Linux?

#gzip -k file





Howto decompress a file in Linux?

```
#gzip -d file
```

#gunzip file





How to compress a folder in Linux?

#tar -czf myfiles.tar.gz myfiles/





How to decompress a folder in Linux?

#tar -xzf myfiles.tar.gz





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

#zip myfiles.zip file1 file2



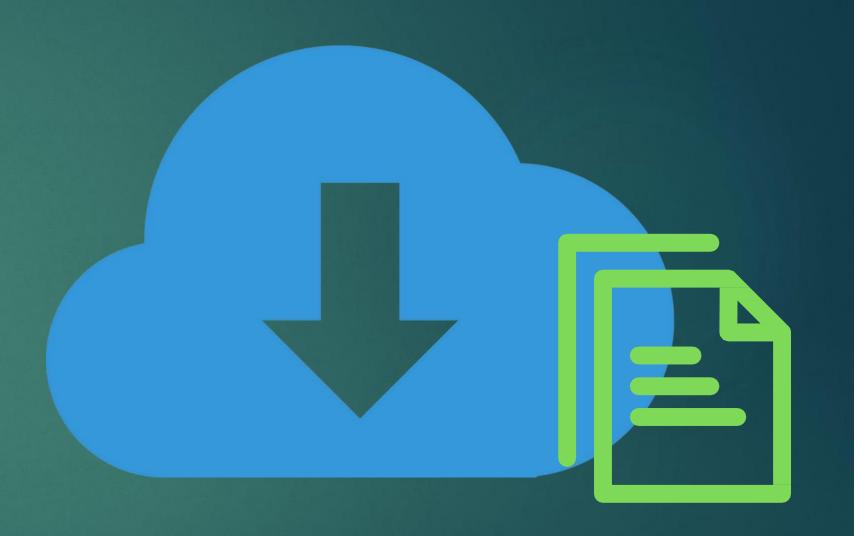


How to list files in zipped file?

#unzip -1 myfiles.zip



Downloading
Files from
Internet





Howto download a file from internet?

```
#wget URL_of_file

#wget -O opt_file.txt URL_Of_file
```





How to call an API on Linux?

#curl http://numbersapi.com/random





How to install an application on Linux?

#apt or yum/dnf





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





How to start/stop a service on Linux?

#systemctl start/stop service_name





How to list all services on Linux?

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





How to list all existing Environment Variables on Linux?

#printenv





How to ADD a new Environment Variables on Linux?

```
#export JAVA_HOME="/usr/lib/jvm/java_v"
#export PATH=$JAVA_HOME/bin:$PATH
```





How to ADD a new Environment Variables permanently on Linux?

Add env variable in ./bashrc file #source ~/.bash_profile





How to print a specific column from a CSV file?

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





How to display starting two characters of all line?

#cut -c1-2 file.txt





How to display a specific line from a file?

#sed -n '5p' file.txt





How to replace a specific word within a file?

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



Ashish

```
wtoconvert the content to Uppercoæ or Lovercoæ vithina file?
```

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

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

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



How to extend or shrink size of a file?

#truncate -s 100M file.txt





How to display following line in vertical line? ABCDE

#echo "ABCDE" | fold -w1





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

#su <user_name>





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

#exit





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

#sudo yum install httpd



Access
Remote
Servers





How to access remote Linux server?

#ssh user@hostname





How to copy a file to a remote Linux server?

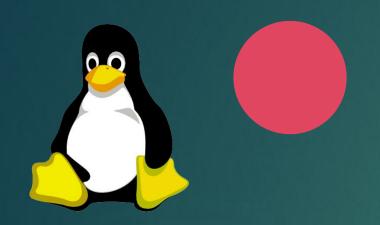
#scp file user@hostname:/tmp/



Working with Permissions



Mowto check permissions of a file?



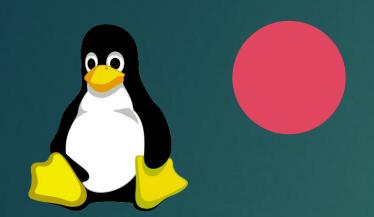








Höwto modify permissions of a file?



#chmod a+rwx file.txt

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





How to change ownership of a file?

#chown root file.txt





How to change group ownership of a file?

#chgrp paul file.txt



Memoryhfo





How to check free RAM space?

#free





How to check %Memory and CPU Utilization?

#top





How to check disk Utilization?

#du



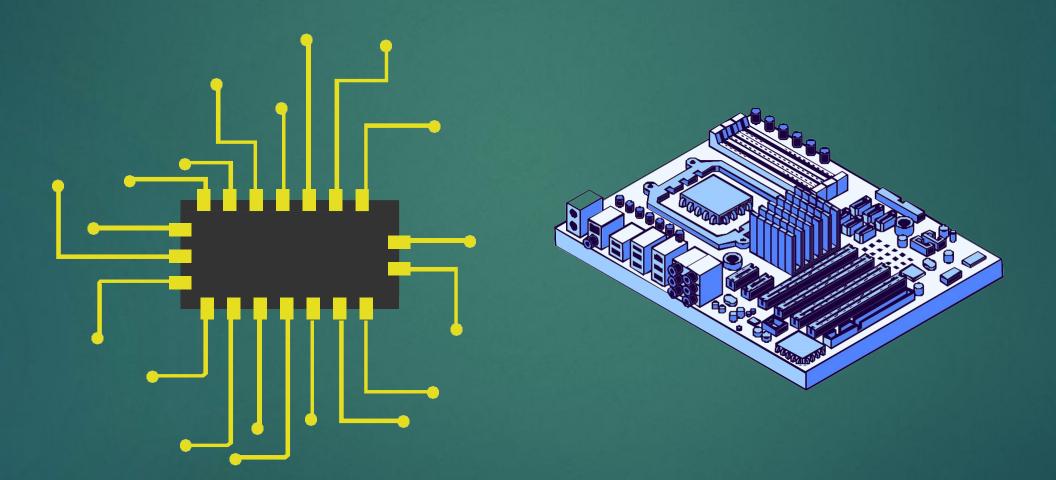


How to check filesystem available and disk space allocated?

#df



System INFO





How to check hostname of your linux server?

#hostname





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

#1scpu





How to check type of architecture of your linux server?

#arch





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

#1sb1k





How to see OS name of linux server?

#uname -a



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

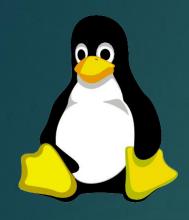




How to see all the active jobs?

#jobs





How to resume a job in background?

#bg





How to resume a job in foreground?

#fg





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





How to restart our linux server?

#reboot



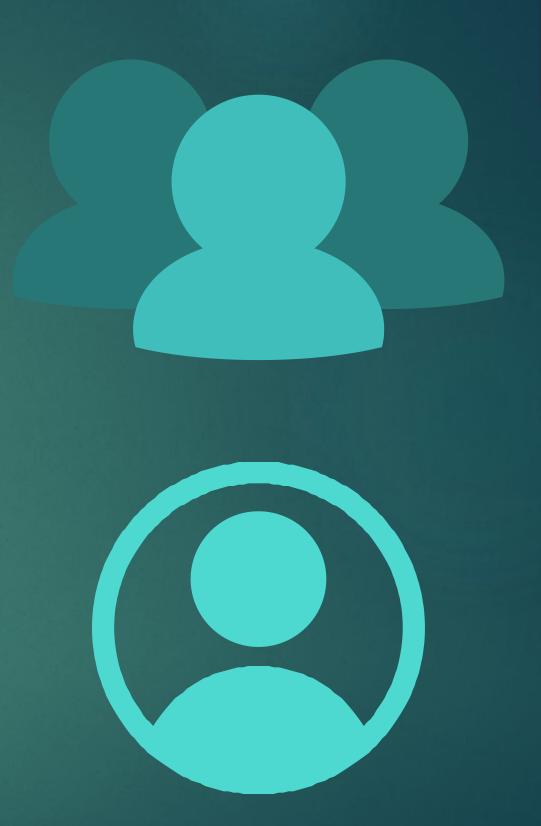


Howto shutdown our linux server?

#shutdown



User Creation





How to create a new user on our linux server?

#useradd





How to change password for the user?

#passwd





How to create a new group on our linux server?

#groupadd





How to check User D or Group D of a user?

#id user





How to delete a user or group?

```
#userdel <user>
#groupdel <group>
```





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

#at

#crontab



THANK YOU!



- 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

CHANGEUSER & REMOTESERVER ACCESS

- su
- sudo
- exit
- ssh
- scp



- chmod
- chown
- chgrp



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



- 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

Ashish FILES & DIRECTORIES MANAGEMENT

- shuf
- WC
- diff
- cmp
- find
- locate

FILES & DIRECTORIES MANAGEMENT

- cd
- cp
- mv
- grep
- egrep

- head
- tail
- sort
- uniq
- split

FILES & DIRECTORIES MANAGEMENT

- cat
- less
- more
- touch
- rm

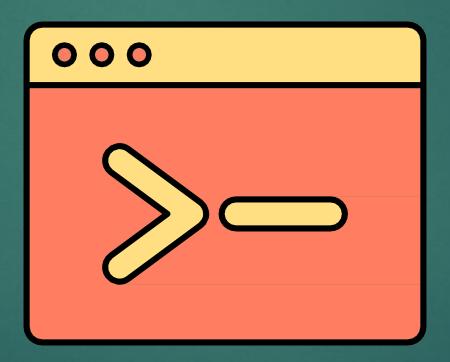
- vi
- nano
- mkdir
- rmdir

FIRST TIME ON TERMINAL

- pwd
- whoami
- date
- 1s
- clear



Some Useful Utility Commands



hstalling Applications

Environment Variables

String/Text Operations



Working with Permissions





Scripting and Automating task

SCRIPTING & AUTOMATION

- at
- crontab
- bash or sh



- reboot
- shutdown