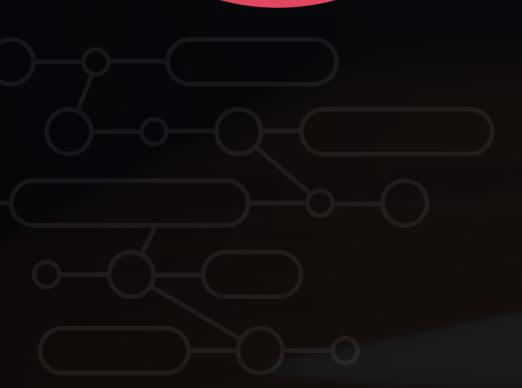


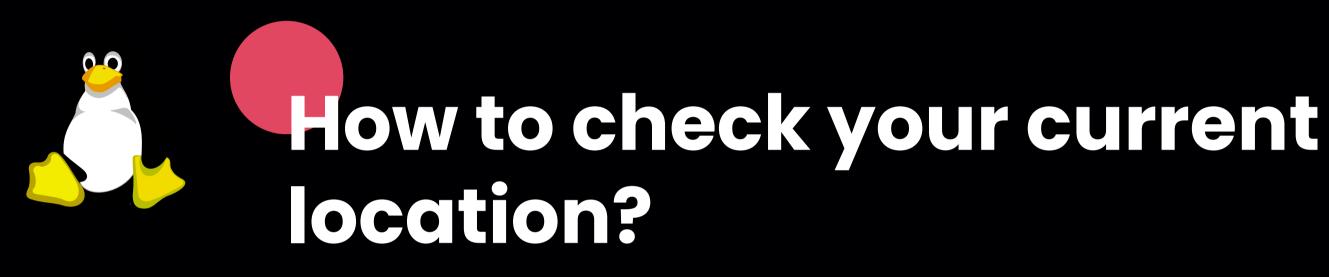
# LINUX 100+ COMMANDS





# Get Ready with your Linux Setup for Practise











# #whoami

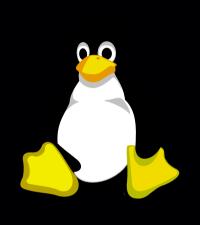




#date

#date %D





# How to display files and directory present in current location?

#ls
#ls -lt





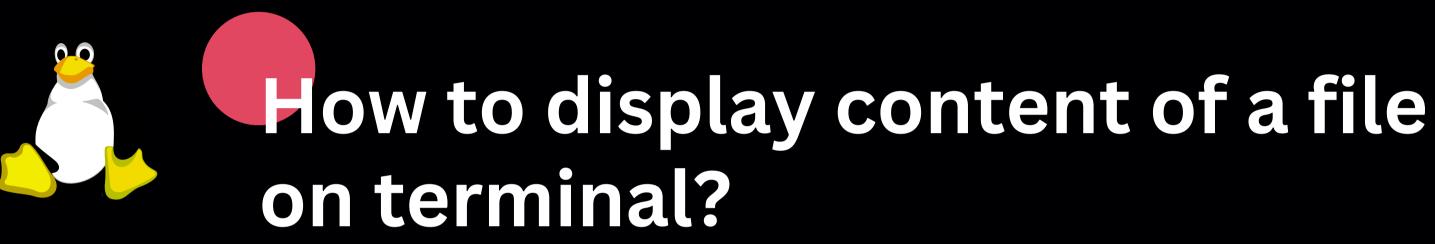
### #clear



Creating Deleting Editing.







### #cat <file>

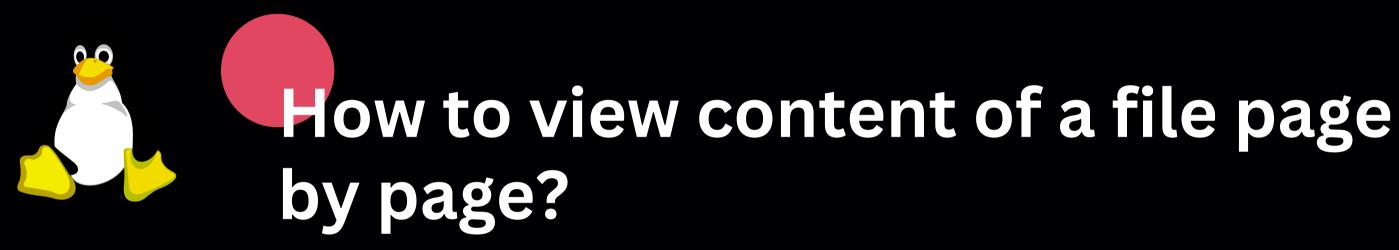




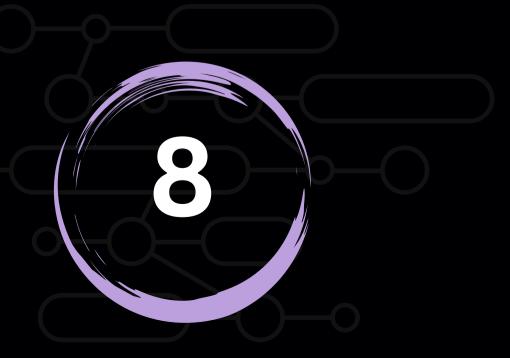
### #less <file>







### #more <file>



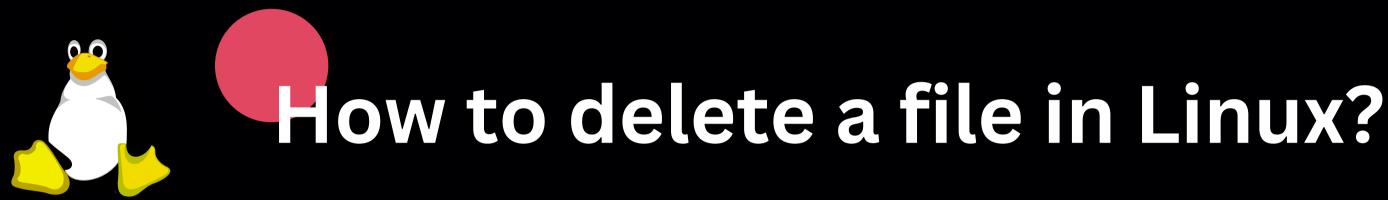




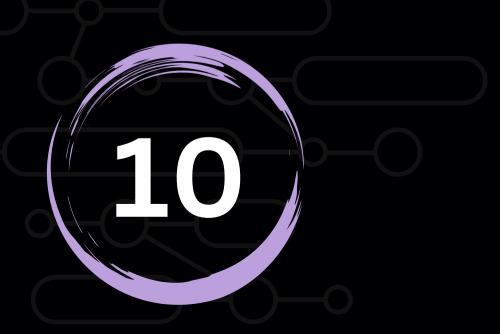
### #touch <file\_name>







## #rm <file\_name>



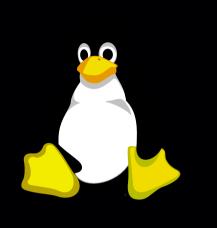


11,12



# #vi <file\_name> #nano <file\_name>





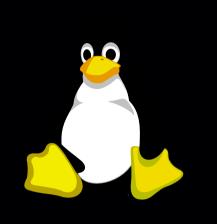
# How to create a directory/folder in Linux?

## #mkdir <dir\_name>









# How to delete a directory/folder in Linux?

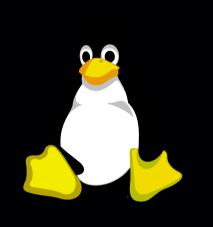
# #rmdir <dir\_name> #rm -rf <dir\_name>







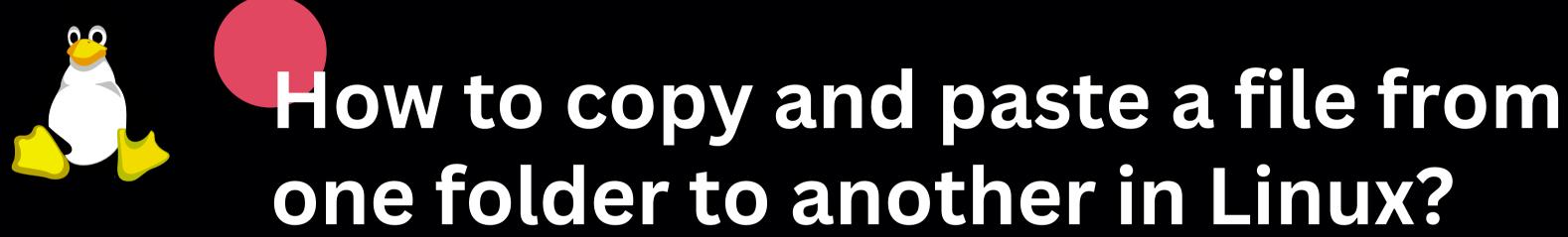
16



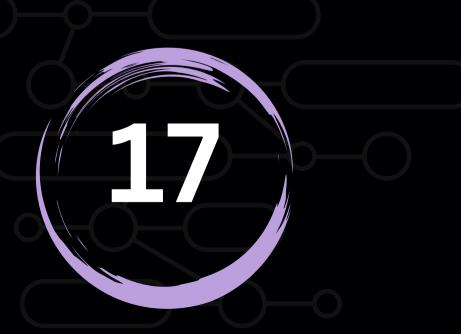
# How to change path or move to another folder in Linux?

# #cd /path/folder #cd





# #cp <file> /dest/path





## #cp fileA fileB



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

# #mv <file> /dest/path





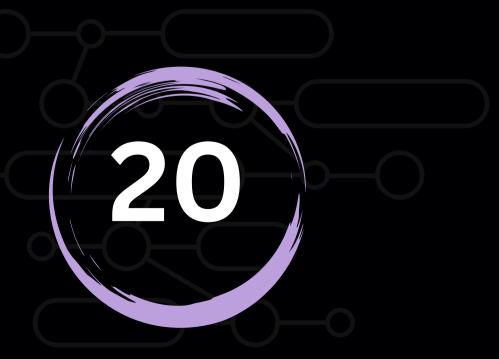


### #mv fileA fileNewName



# 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





## **#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 -l 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 -l file 29

30

# 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





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





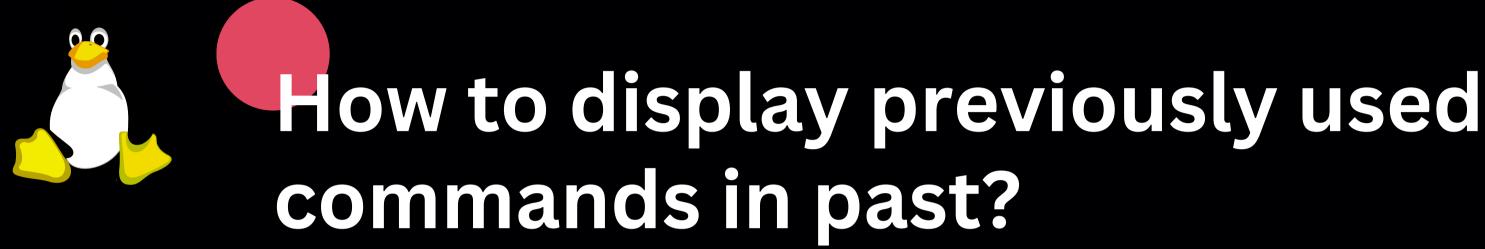


33,34



# #updatedb #locate <file>

# Utility Commands



## #history





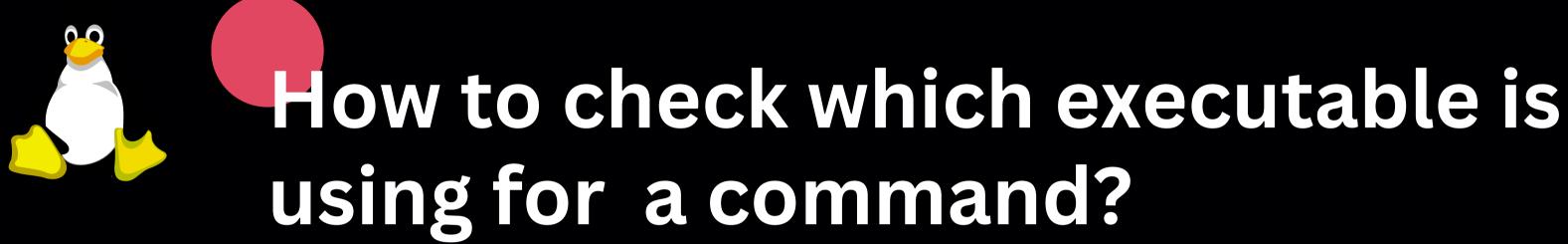
## #help



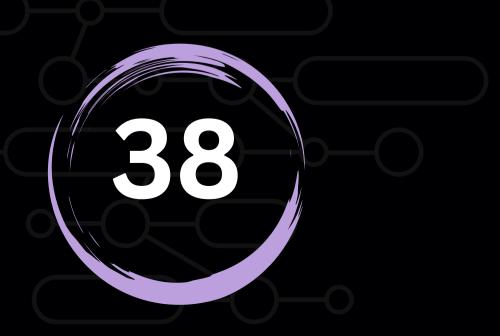


## #man





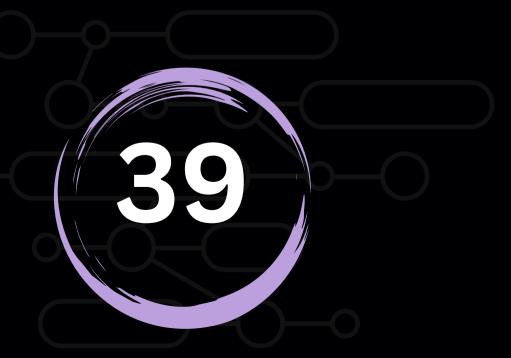
## #which





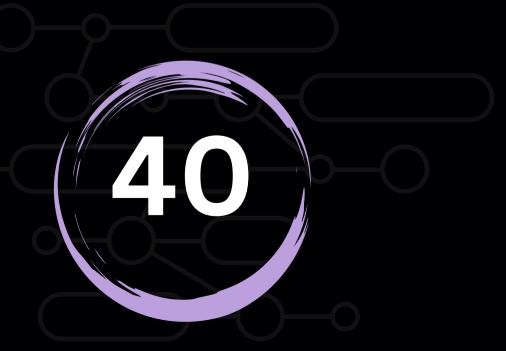


## #bc



# 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

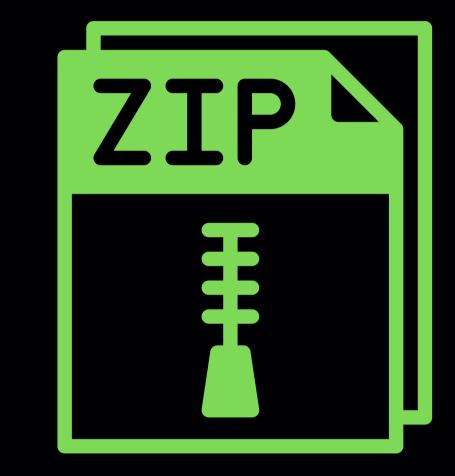


## How to create a short-cut of a long command in Linux?

## #alias l="ls -ltr"



## Zip and Unzip of Files and Folders







## **#gzip** -k file



45,46

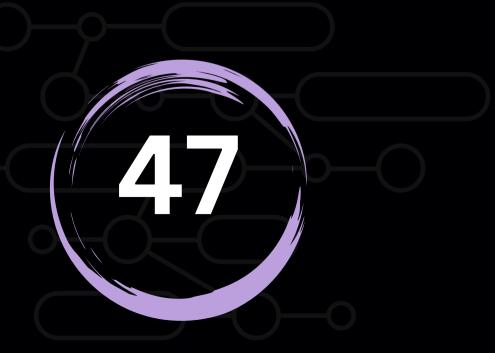
## How to decompress a file in Linux?

## #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?

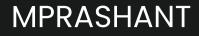
### #tar -xzf myfiles.tar.gz



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

## #zip myfiles.zip file1 file2



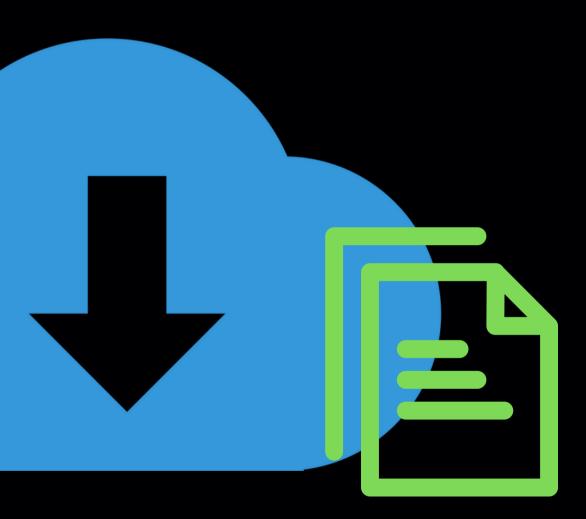




## #unzip -l myfiles.zip



Downloading Files from Internet



49

## How to download a file from internet?

## #wget URL\_of\_file #wget -0 opt\_file.txt URL\_Of\_file





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



# How to install an application on Linux?

## #apt or yum/dnf



52

# 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**







### #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?

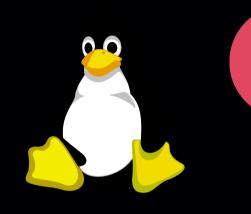
## #sed -n '5p' file.txt



# How to replace a specific word within a file?

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





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

- #tr [:lower:] [:upper:] <file.txt</pre>
- #tr [:punct:] Z <file.txt</pre>
- #tr [:digit:] Z <file.txt</pre>

## How to extend or shrink size of a file?

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

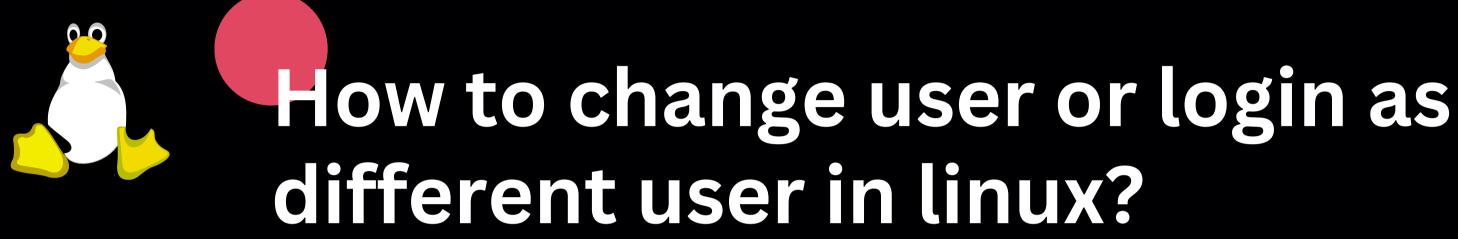




## #echo "ABCDE" fold -w1







## #su <user\_name>



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

## #exit

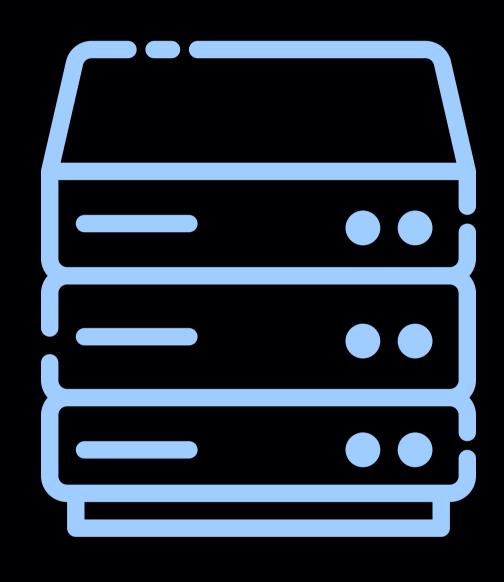




## If you are not root user, how to execute admin commands like installing new apps?

## #sudo yum install httpd

Access Remote Servers







### #ssh user@hostname





## How to copy a file to a remote Linux server?

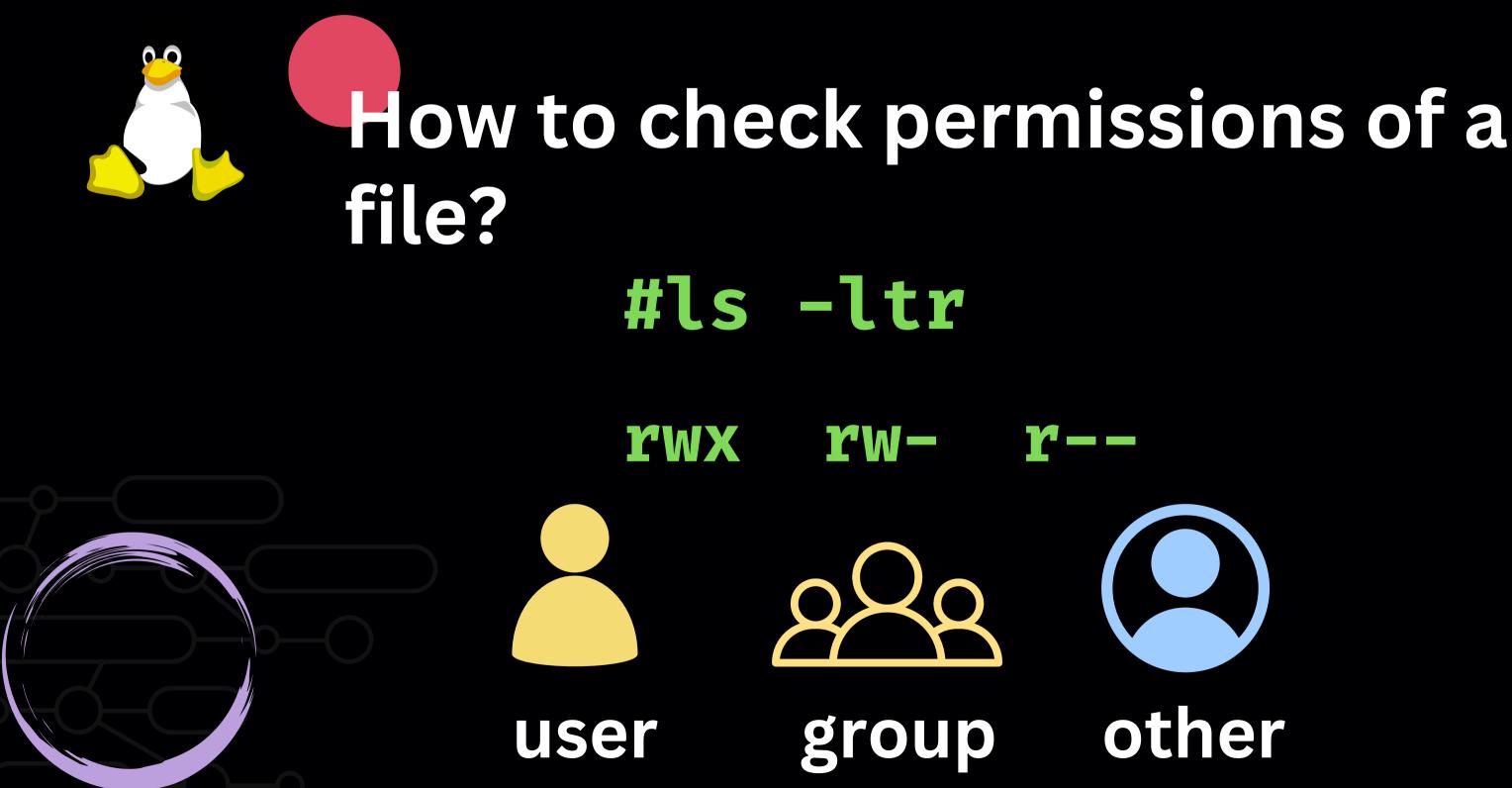
## #scp file user@hostname:/tmp/

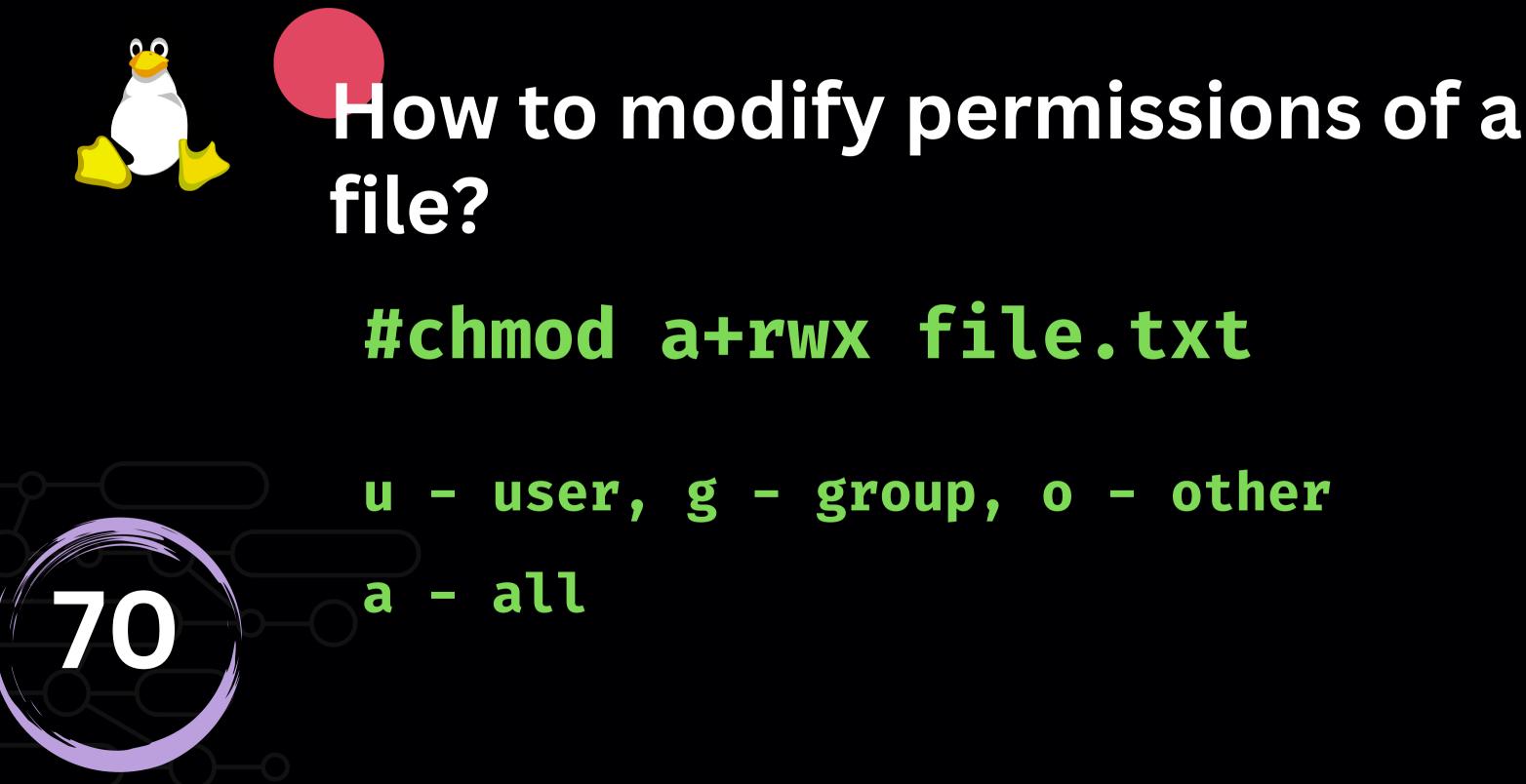


## Working with Permissions









### How to change ownership of a file?

### #chown root file.txt

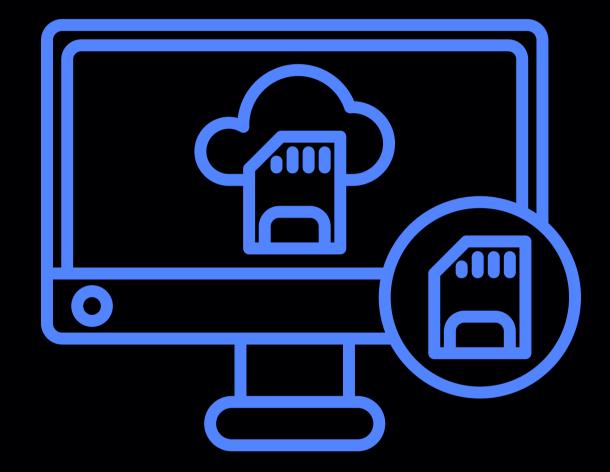




### #chgrp paul file.txt



## **Memory Info**







## #free



## How to check % Memory and CPU Utilization?

## #top







## #du

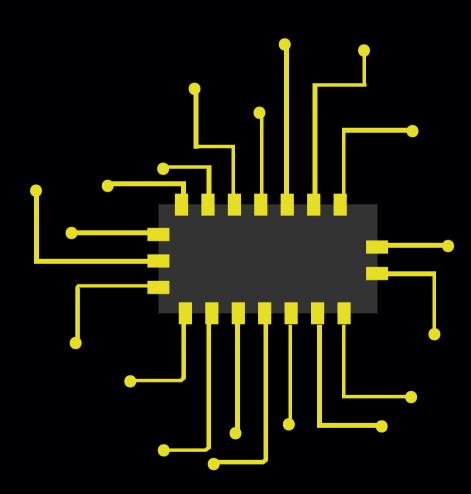




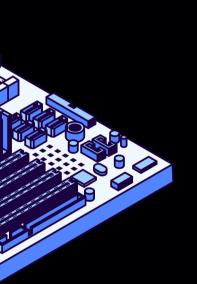
## #df



## System INFO







# How to check hostname of your linux server?

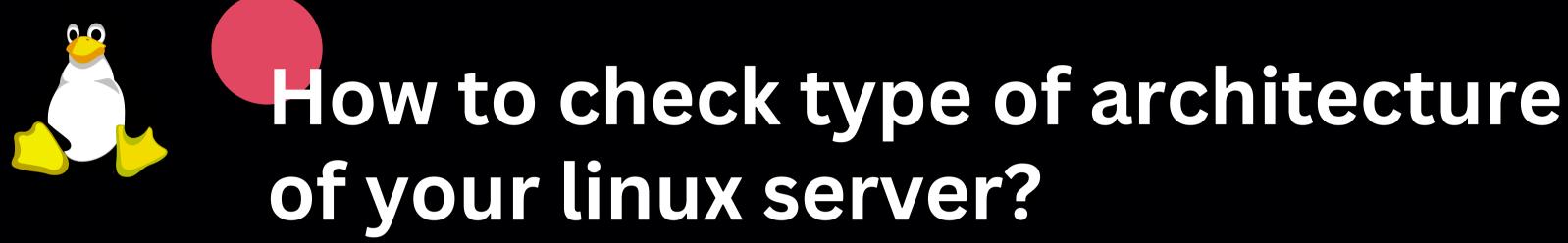
## #hostname



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

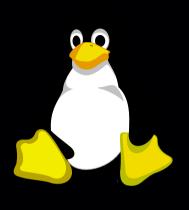
## #lscpu





## #arch

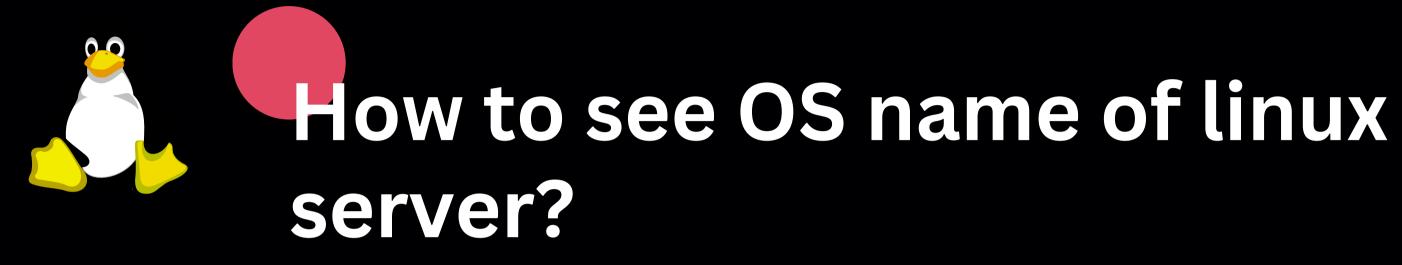




80

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

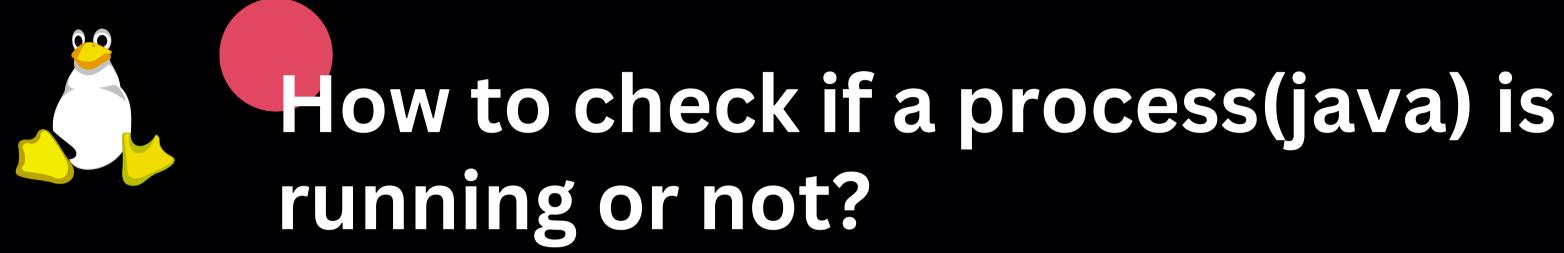
## #lsblk



## **#uname -a**



## Process Management



# **#ps -ef | grep java** 82







## **#pgrep chron**







## #kill -9 PID



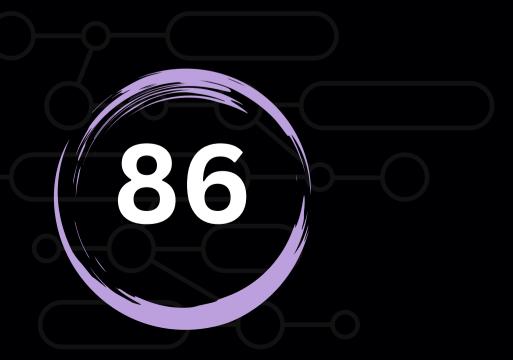


## #pkill httpd





## #jobs



### $\mathbf{0}$ How to resume a job in background?

## **#bg**



### $\mathbf{0}$ How to resume a job in foreground?

## #fg



# How to run a script in background?

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



## Networking Info

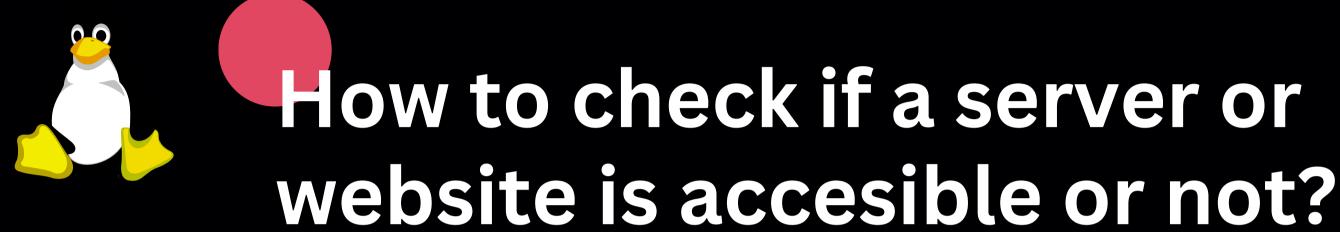






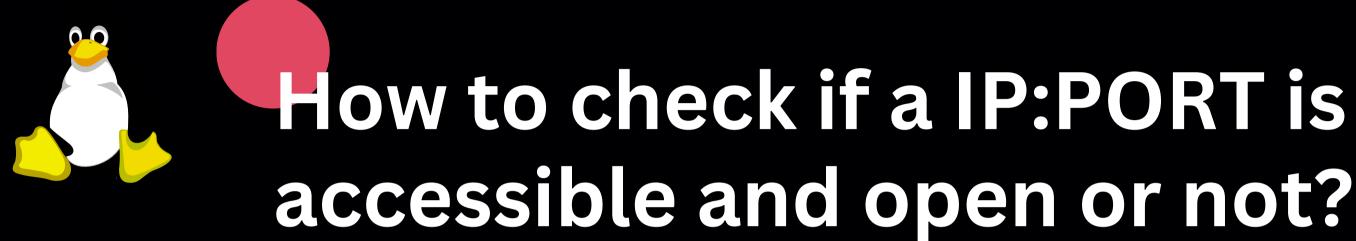
## #ifconfig





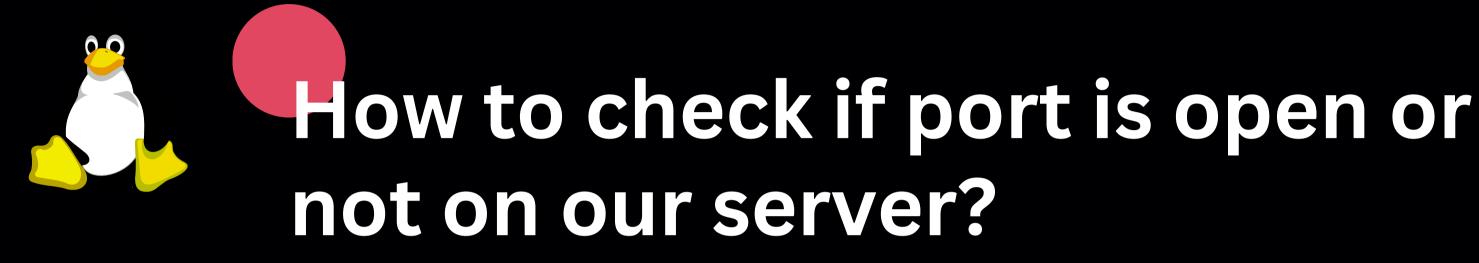
## #ping www.google.com





## **#telnet IP Port**





### **#netstat -putan | grep 80**

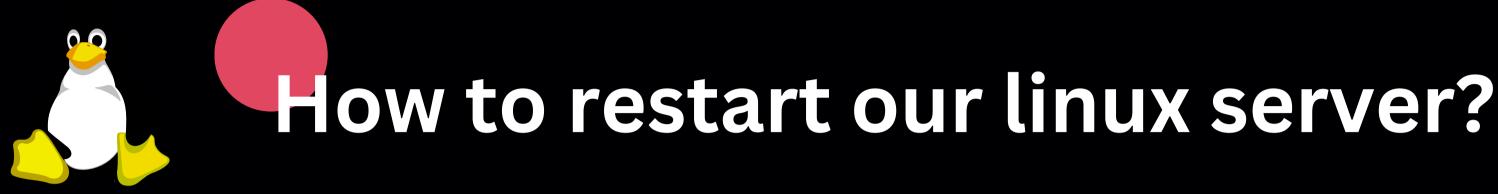


# How to check all hubs in network path to reach a website?

### #traceroute







### #reboot



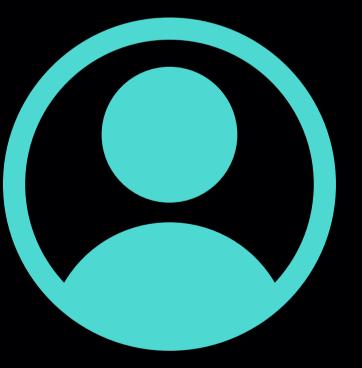


### #shutdown



# User Creation





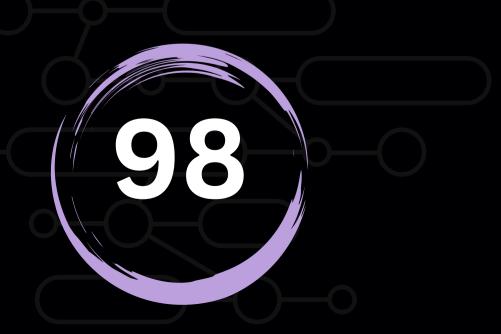


### **#useradd**





### #passwd



# How to create a new group on our linux server?

### #groupadd



# How to check UserID or GroupID of a user?

### #id user

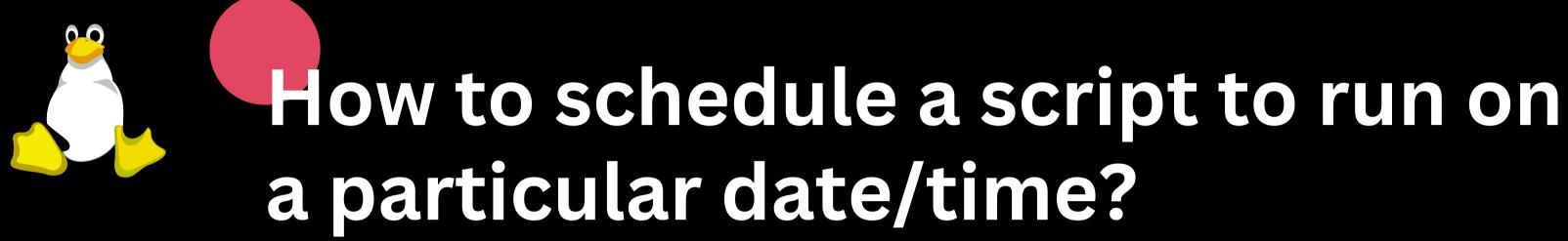






# #userdel <user> #groupdel <group>





### #at

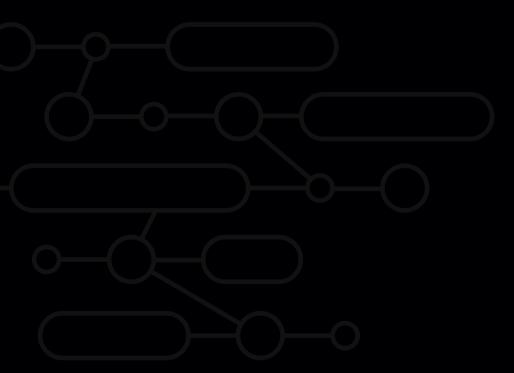
### #crontab



# THANK YOU



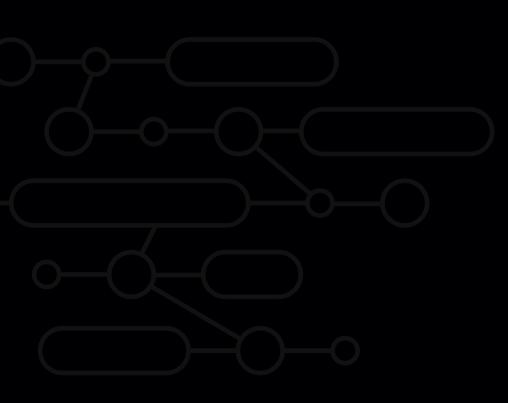
## **USER** MANAGEMENT



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

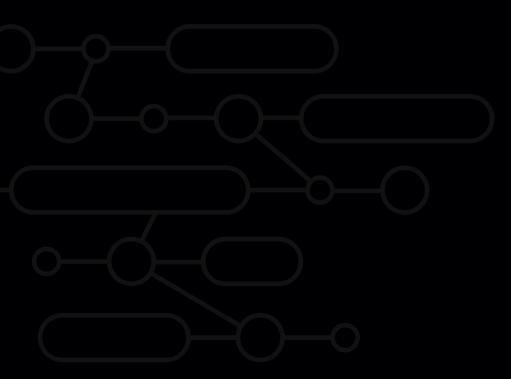


- ifconfig
- ping
- netstat
- telnet



traceroute

## PROCESS MANAGEMENT



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





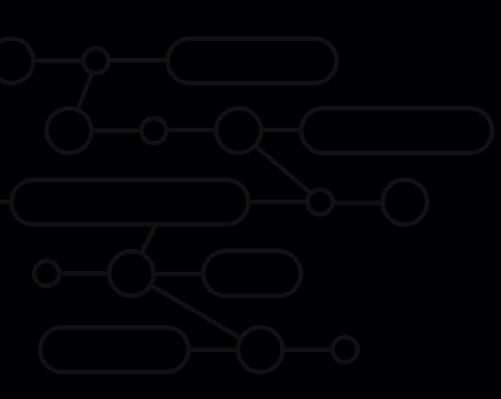
- hostname
- lscpu
- arch
- Isblk
- uname -a





# **MEMORY INFO**

- top
- free
- du
- df





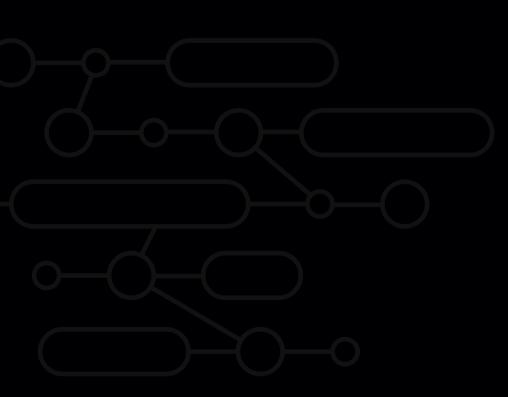
### CHANGE USER & REMOTE SERVER ACCESS

- SU
- sudo
- exit
- ssh
- scp



## FILE PERMISSIONS

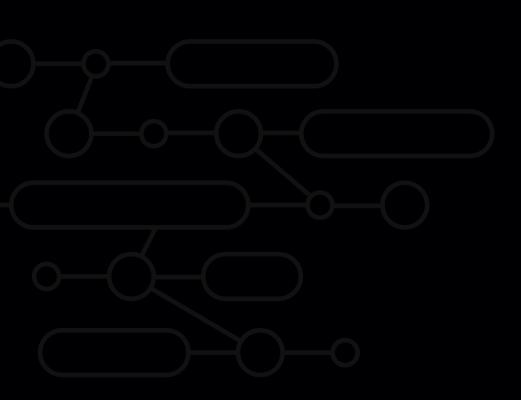
• chmod chown



# • chgrp

TEXT PROCESSING

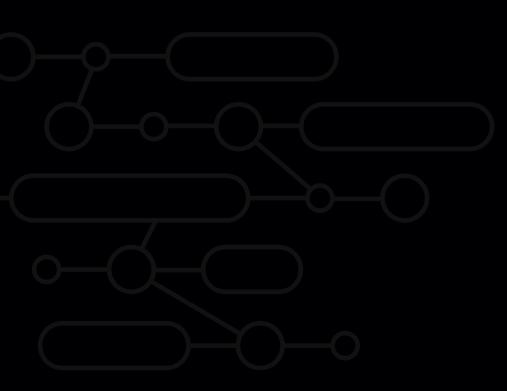
- awk
- cut
- sed
- tr
- fold



# truncate

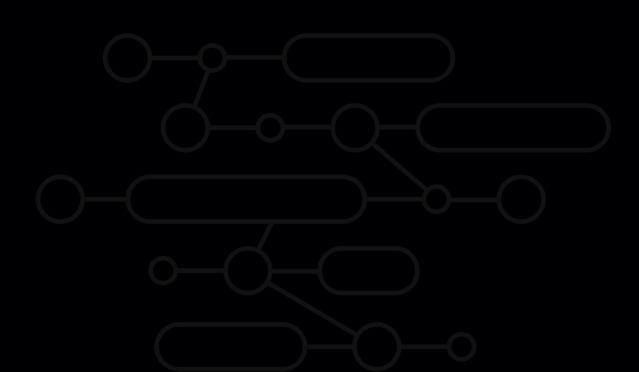
# **ENV VARIABLES**

- printenv
- export
- source



rt rt ce

### **INSTALL &** MANAGE **APPLICATIONS**

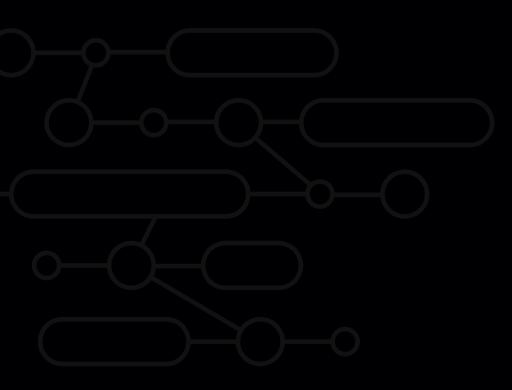


### • apt or yum/dnf • dpkg or rpm systemctl



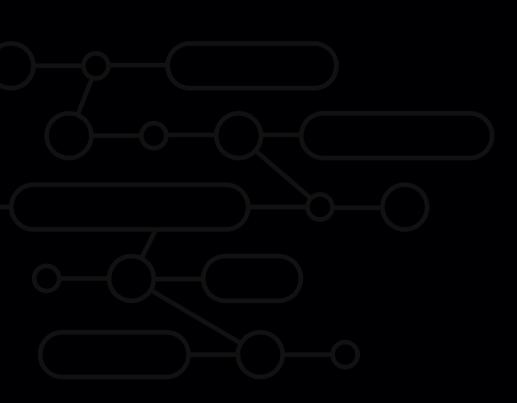


• wget • curl



### COMPRESS DECOMPRESS

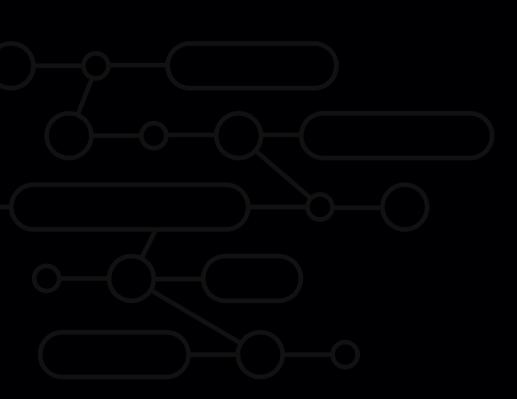
- tar
- gzip
- gunzip
- zip
- unzip





## **OTHER USEFUL** COMMANDS

- history
- help
- man
- which
- bc



• cal • script • uptime • alias



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

# if f d ate



head
tail
sort
uniq
split





## FIRST TIME ON TERMINAL

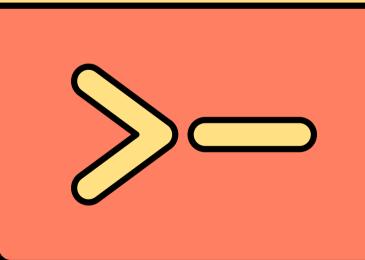


- whoami
- date
- ls
- clear



# Some Useful Utility Commands





# Installing Applications

# **Environment Variables**

# String/Text Operations



# Working with Permissions







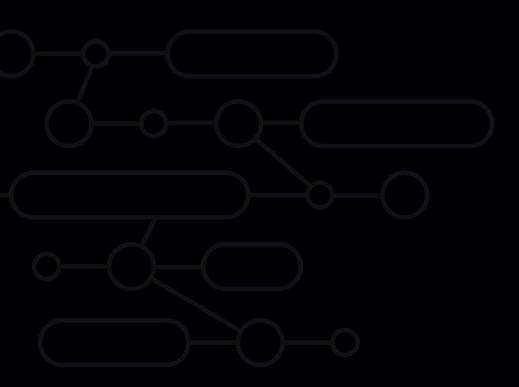
# Scripting and Automating task

# SCRIPTING & at at cr

# crontabbash or sh

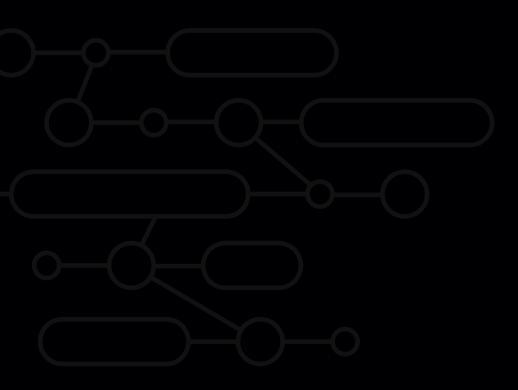


rebootshutdown





- firewall-cmd --list-all



# • firewall-cmd --add-port=20201/tcp