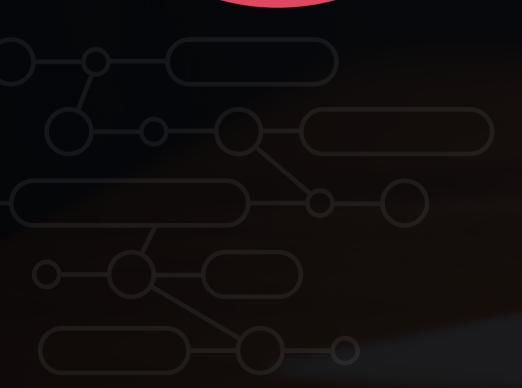


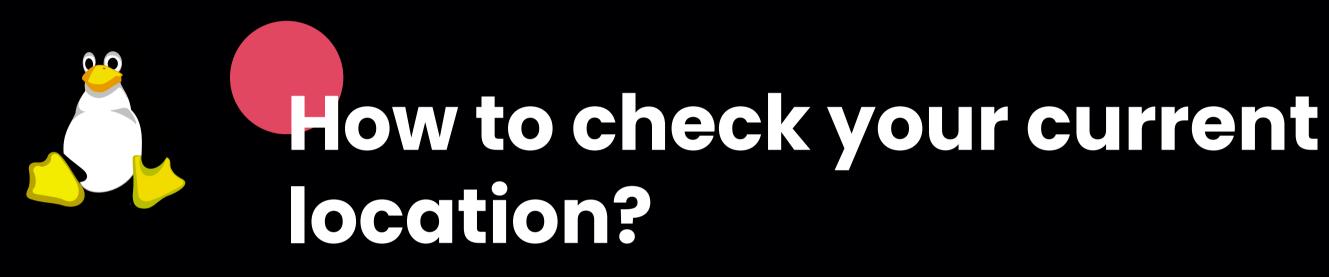
LINUX 100+ COMMANDS





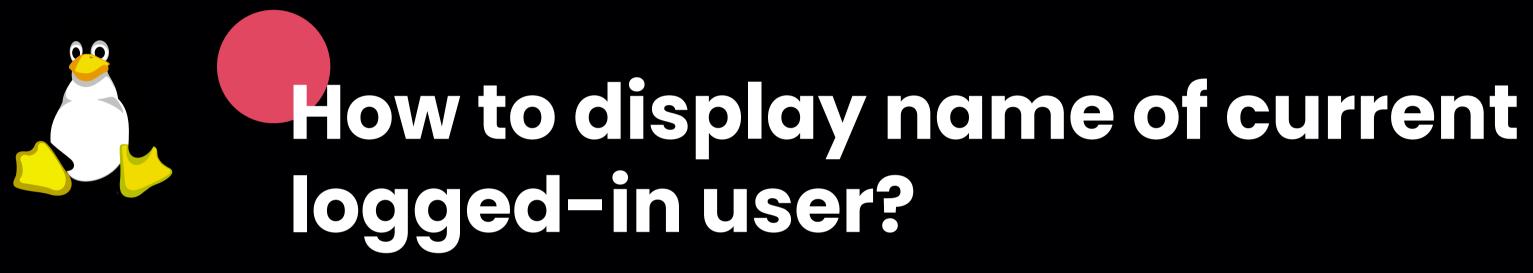
Get Ready with your Linux Setup for Practise











#whoami





#date

#date %D





How to display files and directory present in current location?

#ls
#ls -lt





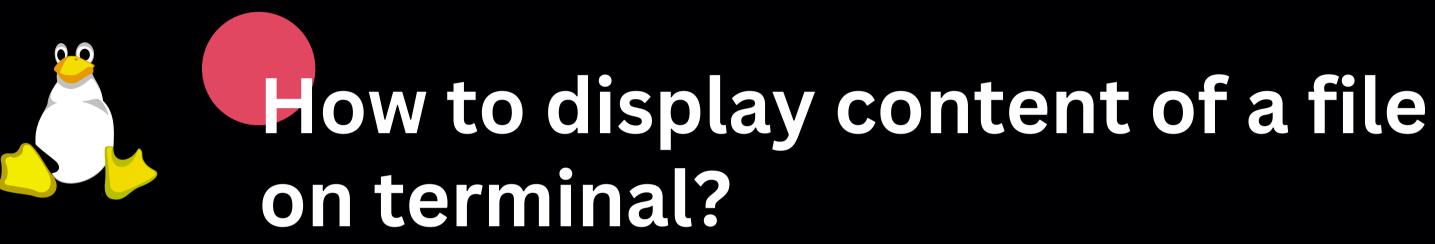
#clear



Creating Deleting Editing.







#cat <file>

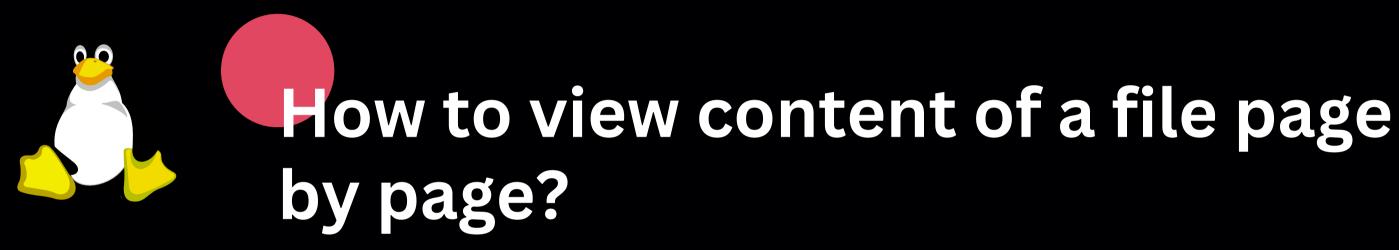




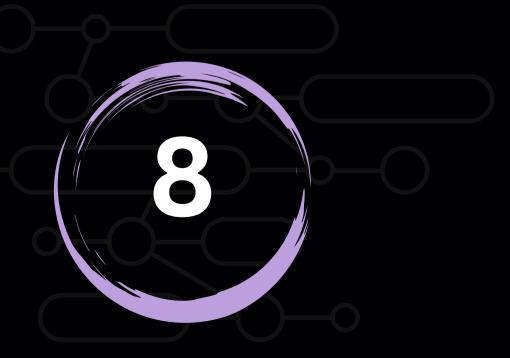
#less <file>







#more <file>



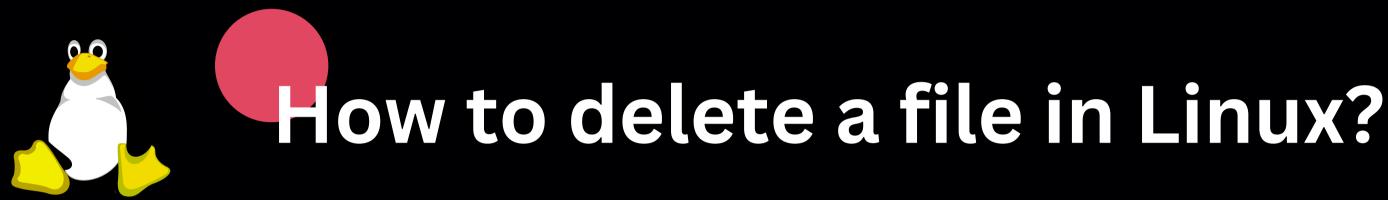




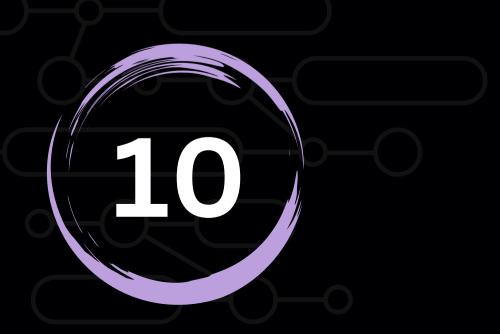
#touch <file_name>







#rm <file_name>



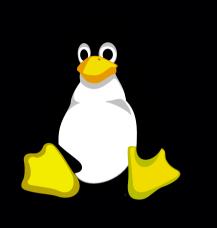


11,12



#vi <file_name> #nano <file_name>





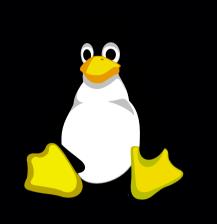
How to create a directory/folder in Linux?

#mkdir <dir_name>









How to delete a directory/folder in Linux?

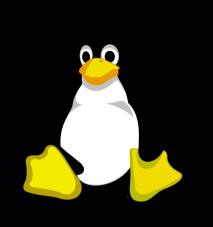
#rmdir <dir_name> #rm -rf <dir_name>







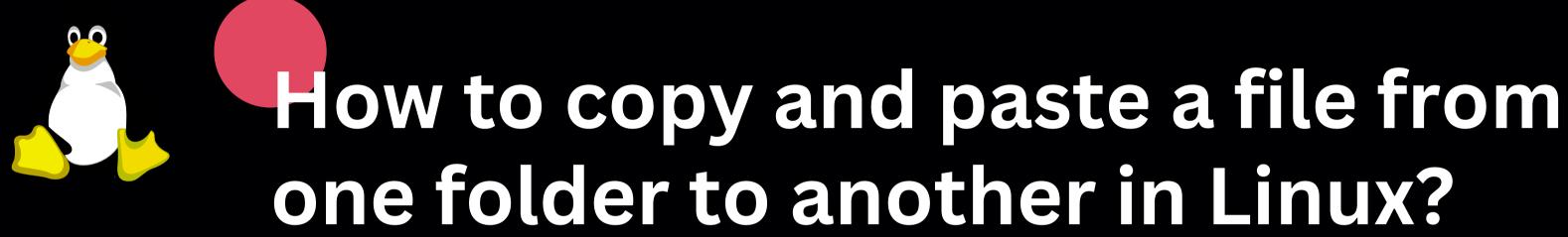
16



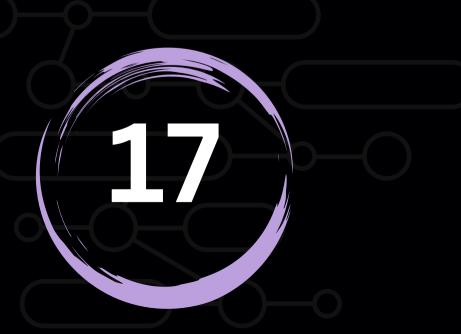
How to change path or move to another folder in Linux?

#cd /path/folder #cd





#cp <file> /dest/path





#cp fileA fileB



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

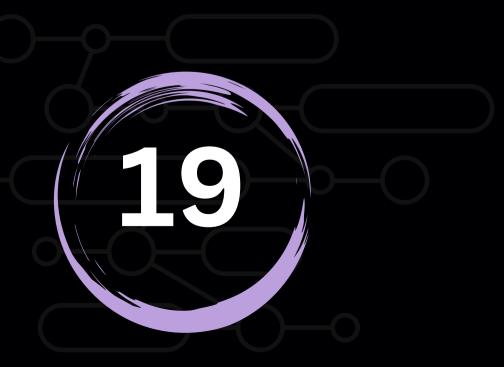
#mv <file> /dest/path





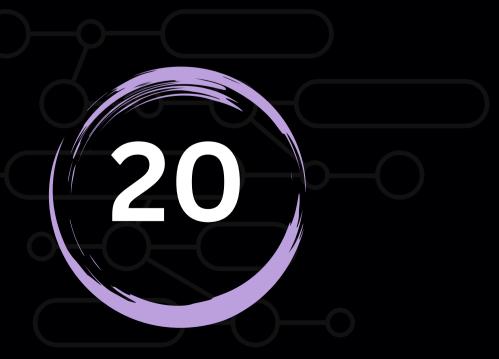


#mv fileA fileNewName



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

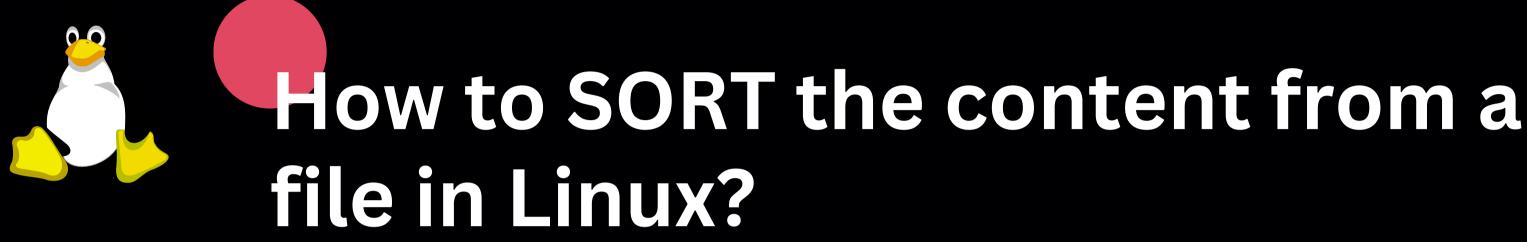
#head -5 file



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>





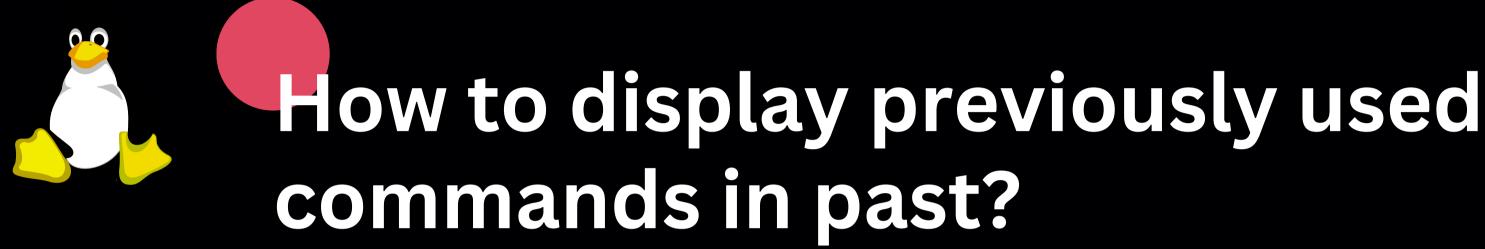


33,34



#updatedb #locate <file>

Utility Commands



#history





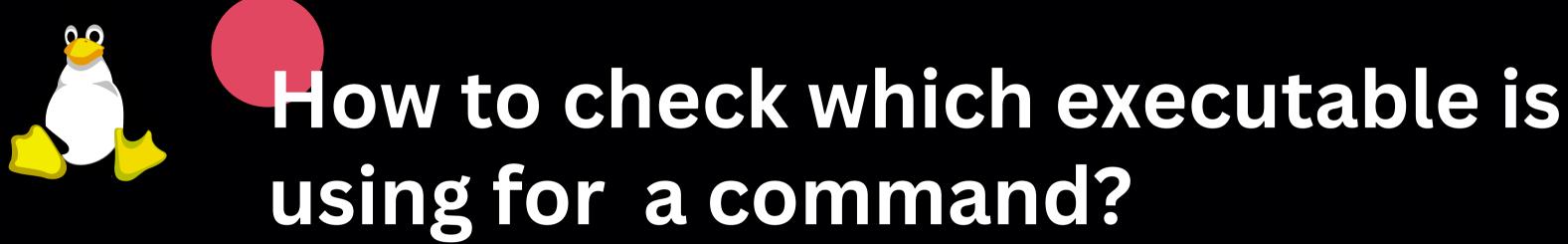
#help



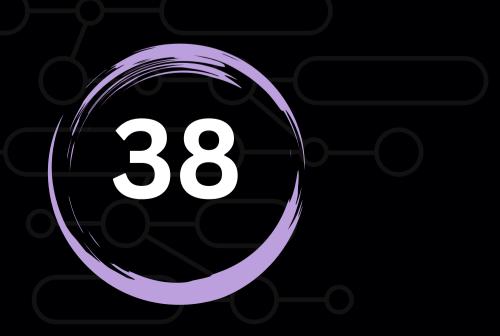


#man





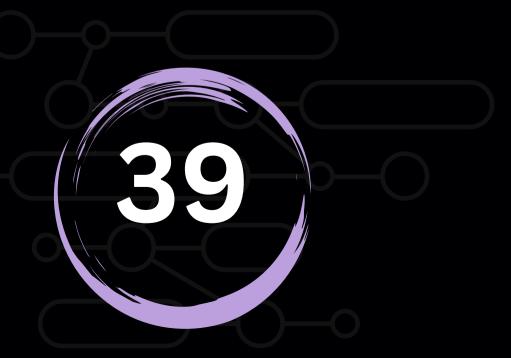
#which





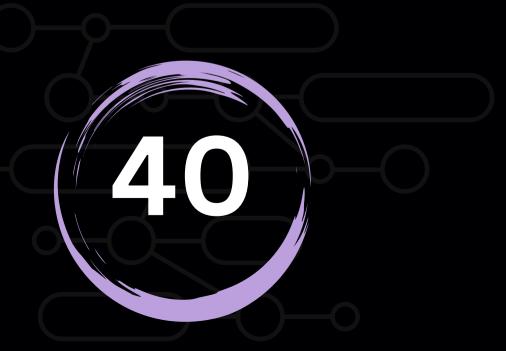


#bc



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

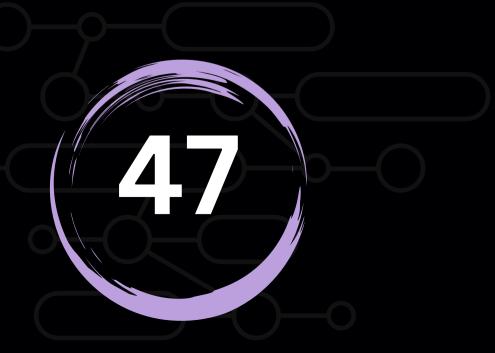
How to decompress a file in Linux?

#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



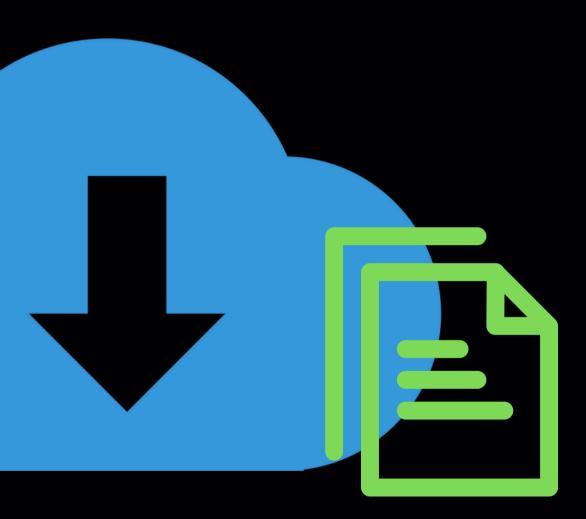




#unzip -l myfiles.zip



Downloading Files from Internet



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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?

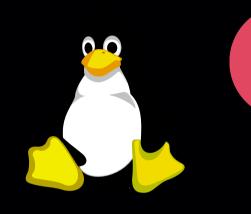
#sed -n '5p' file.txt



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

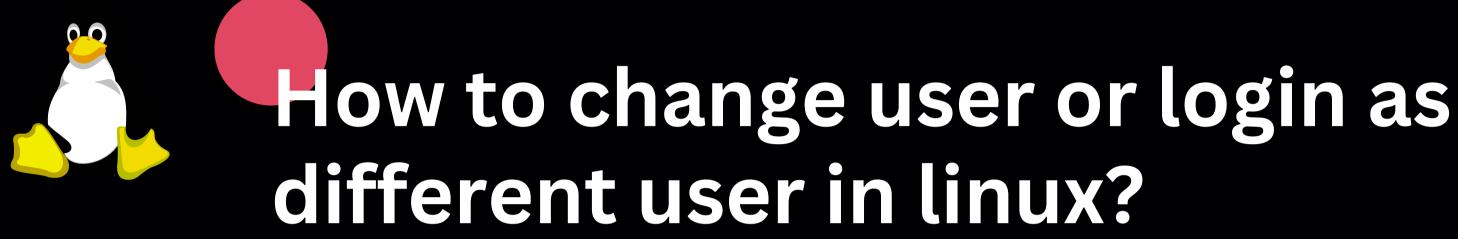




#echo "ABCDE" fold -w1







#su <user_name>



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

#exit

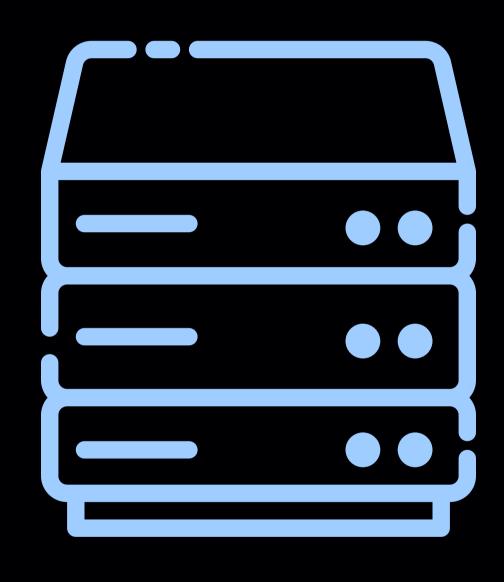




If you are not root user, how to execute admin commands like installing new apps?

#sudo yum install httpd

Access Remote Servers







#ssh user@hostname





How to copy a file to a remote Linux server?

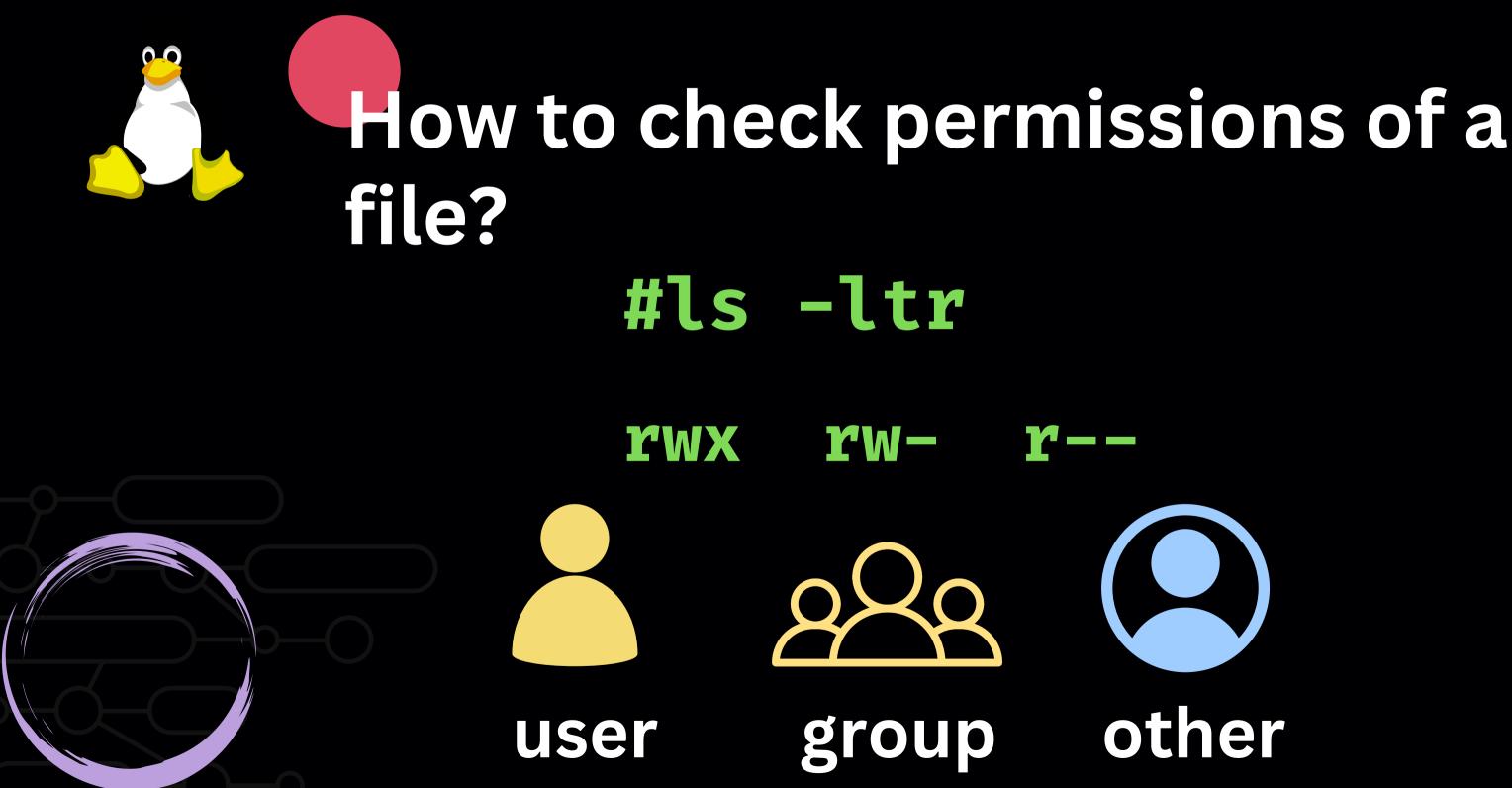
#scp file user@hostname:/tmp/

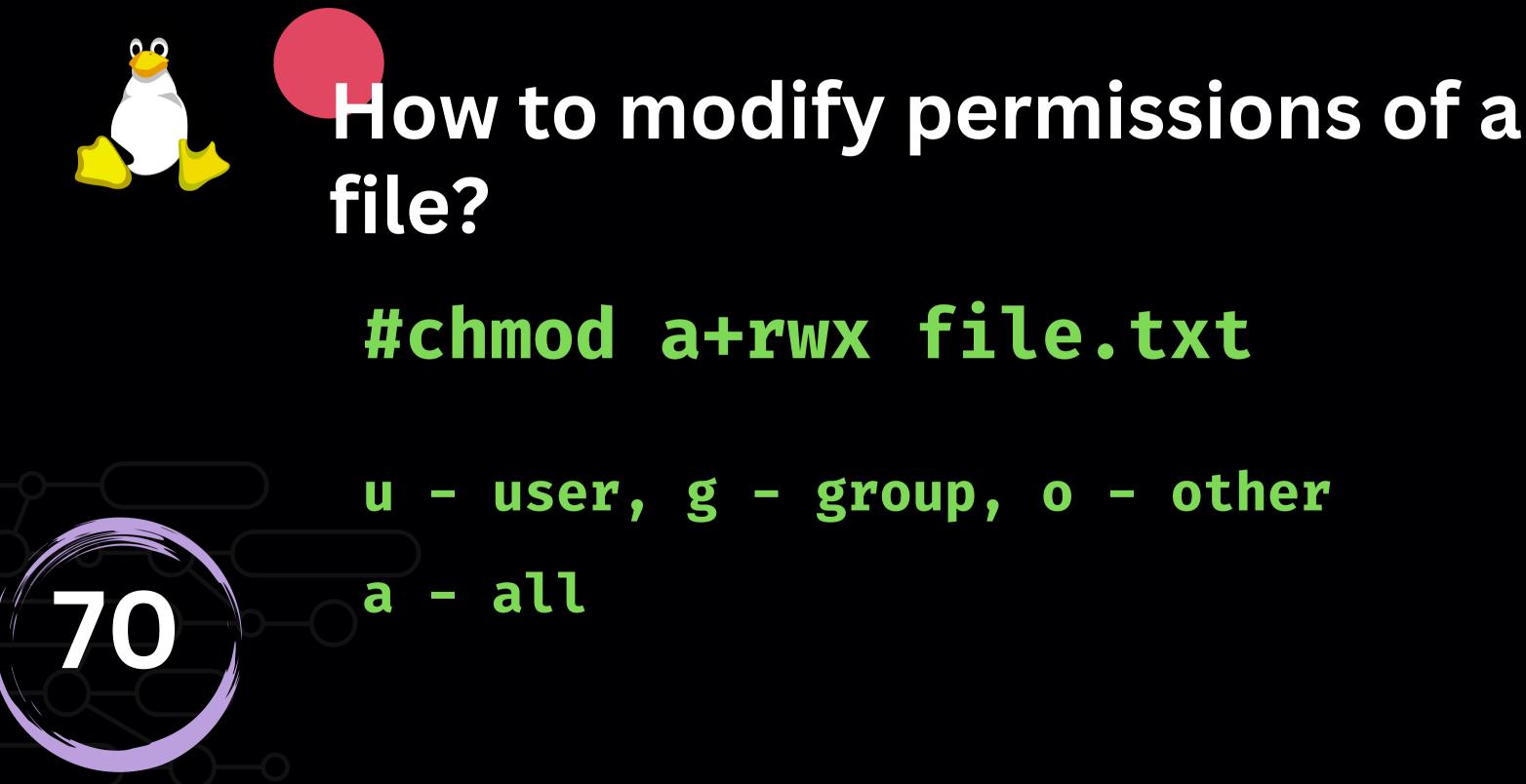


Working with Permissions









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

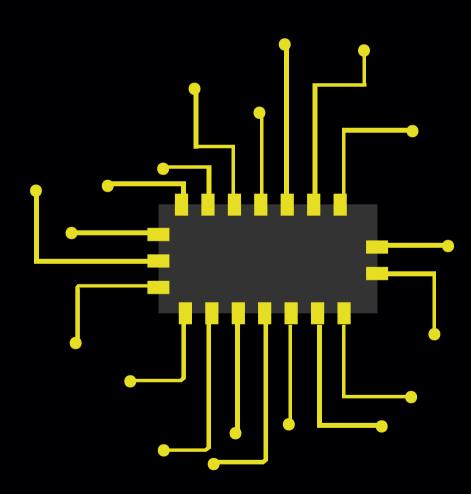




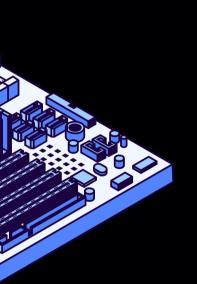
#df



System INFO







How to check hostname of your linux server?

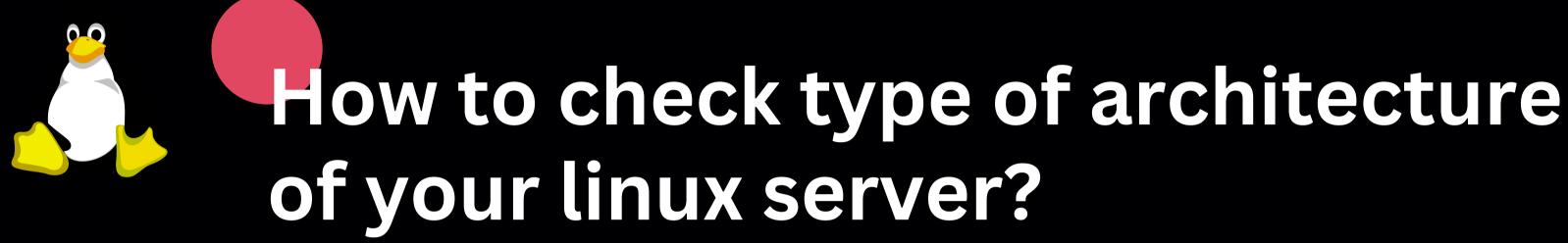
#hostname



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

#lscpu





#arch

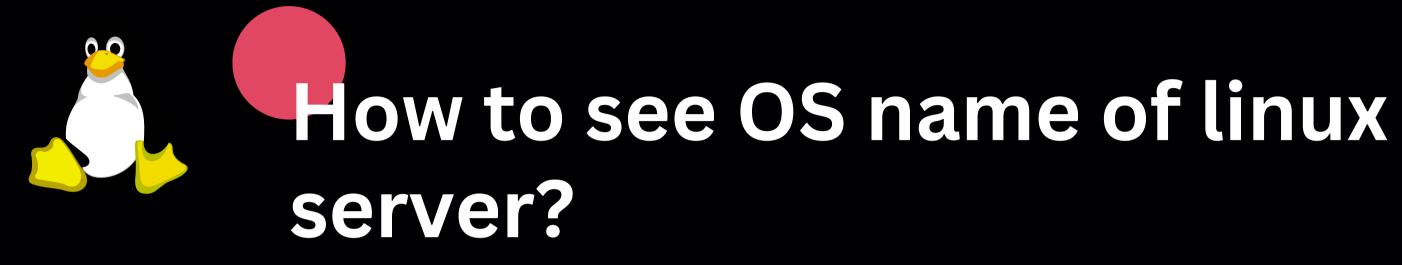




80

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

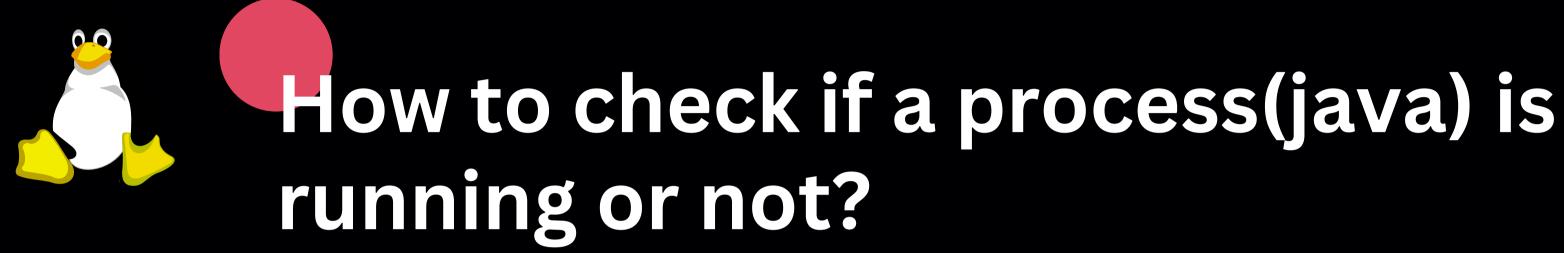
#lsblk



#uname -a



Process Management



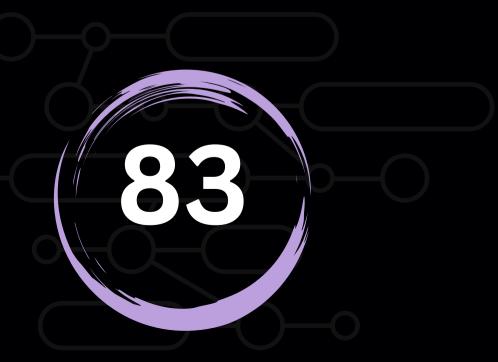
#ps -ef | grep java 82







#pgrep chron







#kill -9 PID



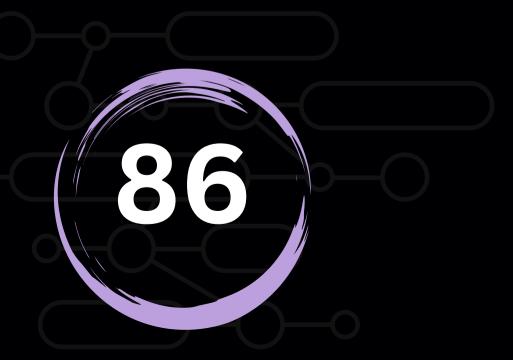


#pkill httpd





#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

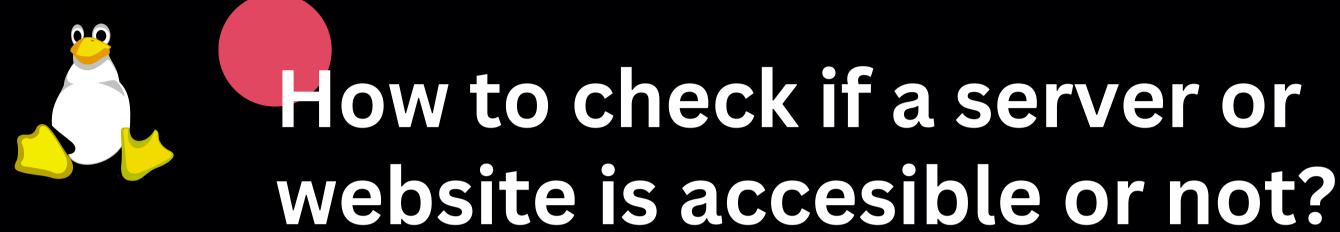






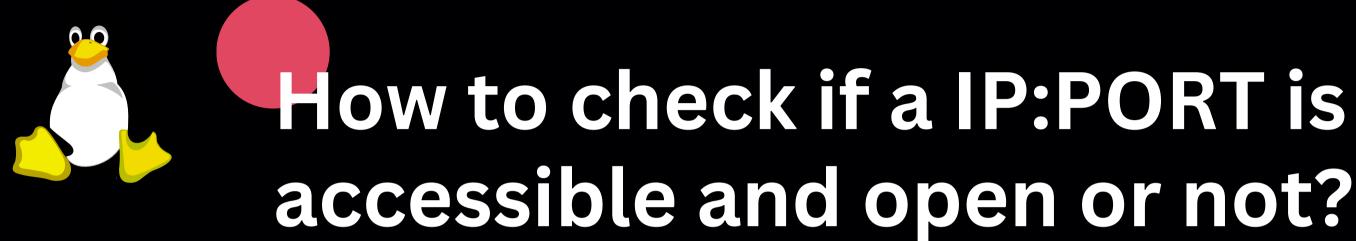
#ifconfig





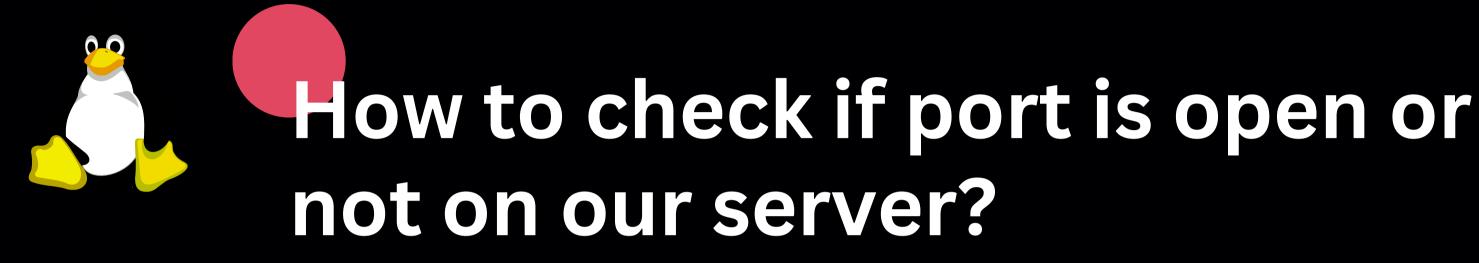
#ping www.google.com



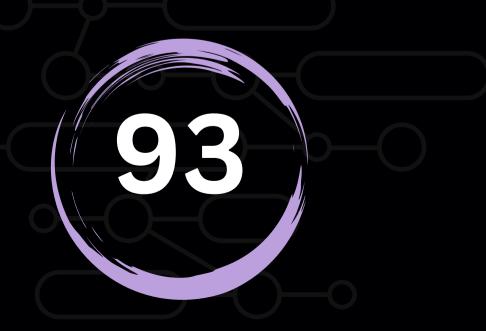


#telnet IP Port





#netstat -putan | grep 80

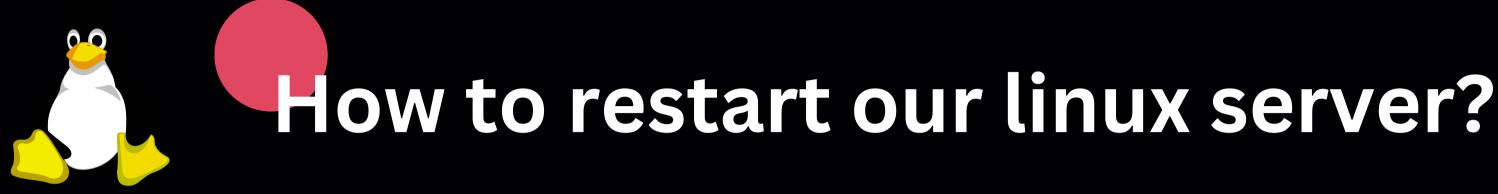


How to check all hubs in network path to reach a website?

#traceroute







#reboot

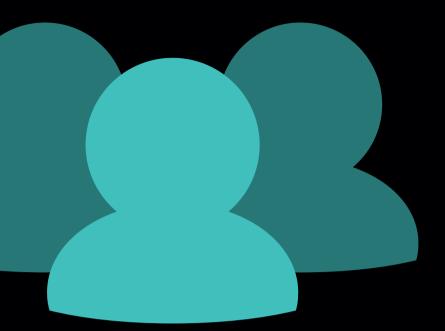


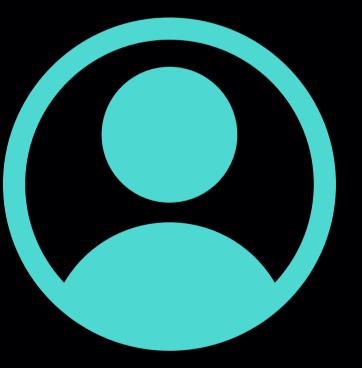


#shutdown



User Creation







#useradd





#passwd



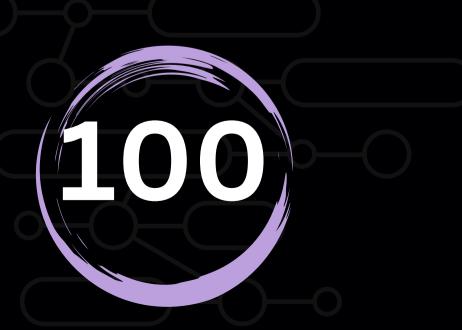
How to create a new group on our linux server?

#groupadd



How to check UserID or GroupID of a user?

#id user

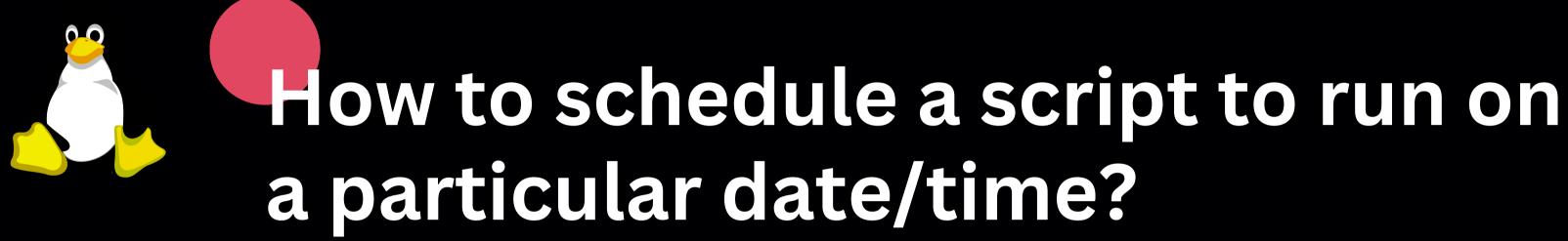






#userdel <user> #groupdel <group>





#at

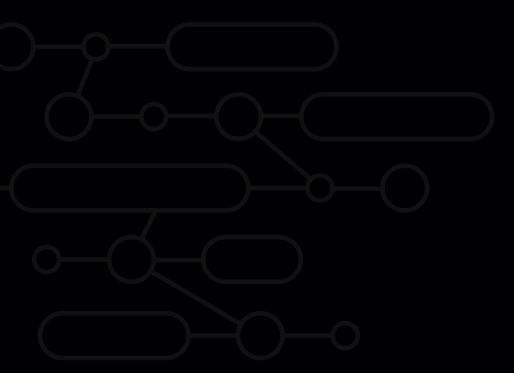
#crontab



THANK YOU



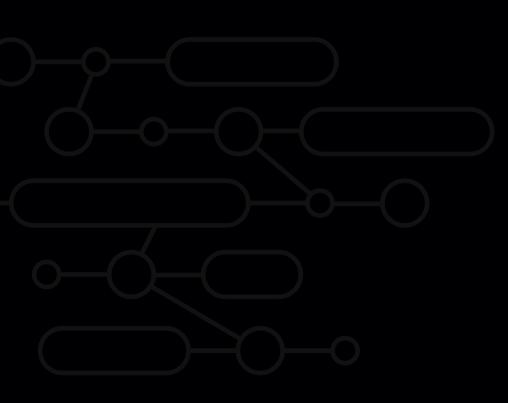
USER MANAGEMENT



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

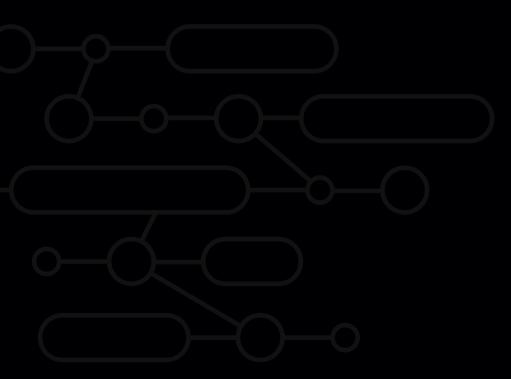


- ifconfig
- ping
- netstat
- telnet



traceroute

PROCESS MANAGEMENT



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





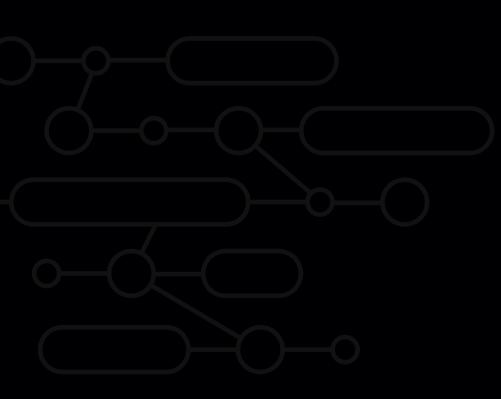
- hostname
- lscpu
- arch
- Isblk
- uname -a





MEMORY INFO

- top
- free
- du
- df





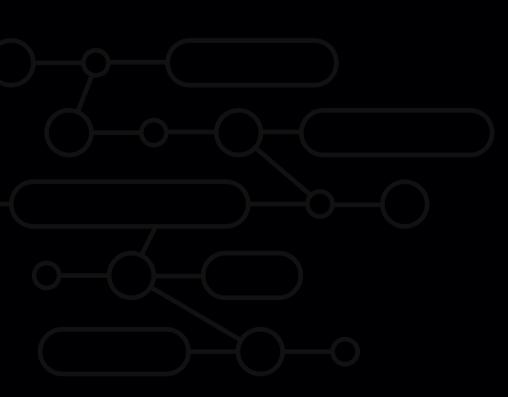
CHANGE USER & REMOTE SERVER ACCESS

- SU
- sudo
- exit
- ssh
- scp



FILE PERMISSIONS

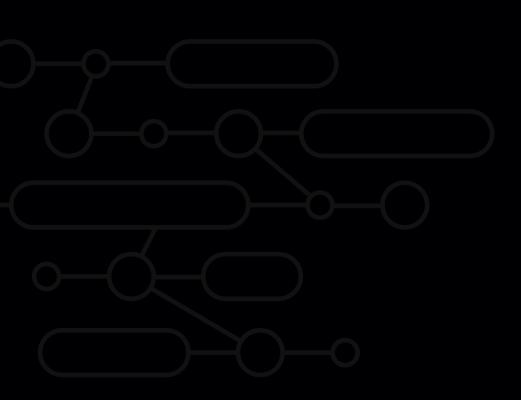
• chmod chown



• chgrp

TEXT PROCESSING

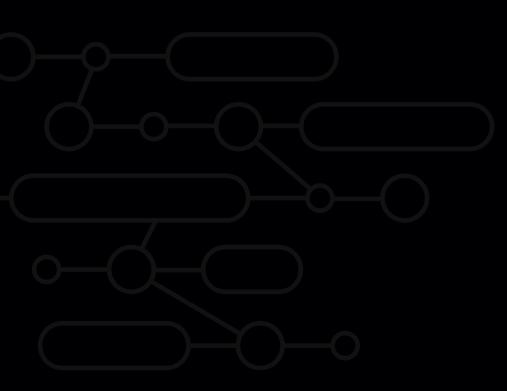
- awk
- cut
- sed
- tr
- fold



truncate

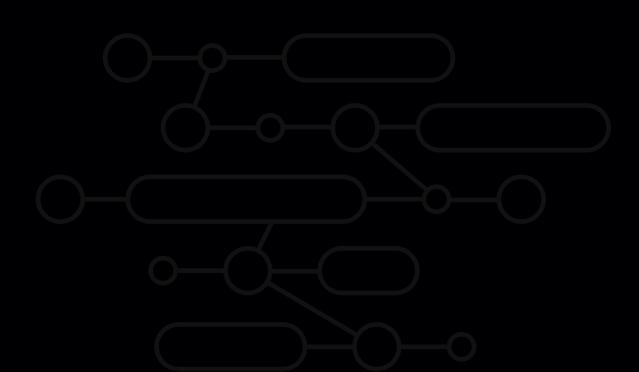
ENV VARIABLES

- printenv
- export
- source



rt rt ce

INSTALL & MANAGE **APPLICATIONS**

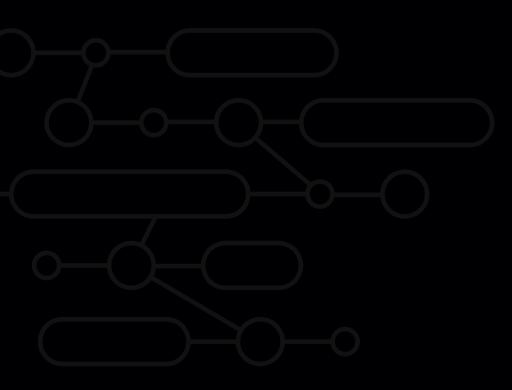


• apt or yum/dnf • dpkg or rpm systemctl



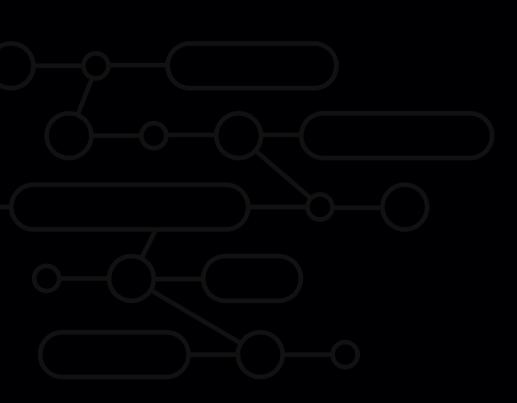


• wget • curl



COMPRESS DECOMPRESS

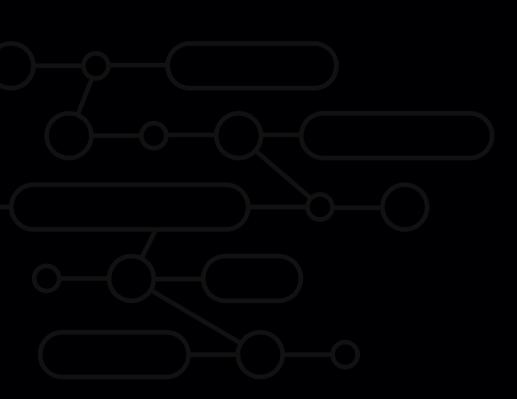
- tar
- gzip
- gunzip
- zip
- unzip





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

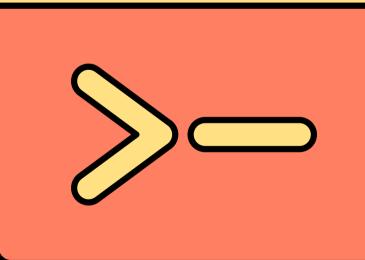


- whoami
- date
- ls
- clear



Some Useful Utility Commands

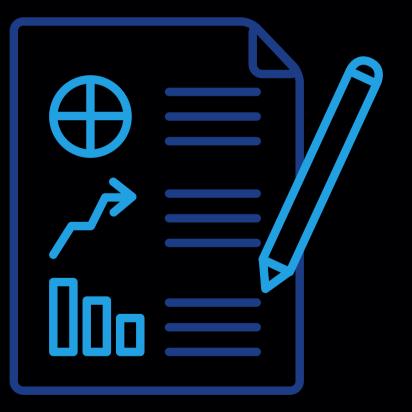




Installing Applications

Environment Variables

String/Text Operations



Working with Permissions







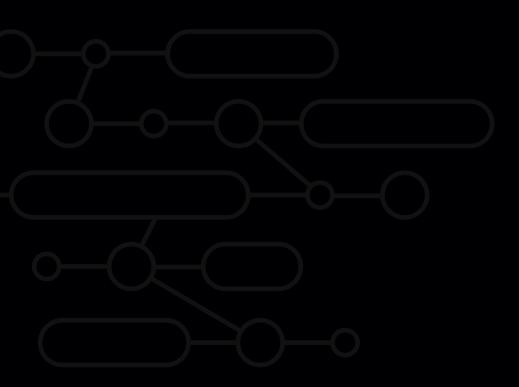
Scripting and Automating task

SCRIPTING & at at cr

crontabbash or sh

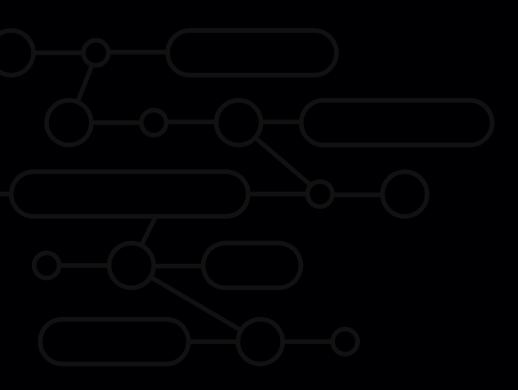


rebootshutdown





- firewall-cmd --list-all



• firewall-cmd --add-port=20201/tcp