

LINUX COMMAND

cheat sheet

SYSTEM COMMANDS

- uname: Used to get OS of our instance
- uname -r: Used to get kernel version of OS
- uname -a: Used to get full information of OS
- uptime: Used to get since how log our server is in runing state
- uptime -p: It displays only time
- uptime -s: It displays about date & time of our system run time
- hostname: Used to get hostname of the system
- hostname -i: Used to get private ip address of a system
- ip addr: Used to get private ip address of a system
- ip route: Used to get private ip address of a system
- ip config: Used to get private ip address of a system
- date: Display the current date
- date +"%d": Displays only date
- date +"%m": Displays only month
- date +"%y": Displays only year
- date +"%H": Displays only hours
- date +"%M": Displays only minutes
- date +"%8": Displays only seconds
 date +"%D": Displays date(mm/dd/yyyy)
- date +"%F": Displays date (yyyy-mm-dd)
- date + %A": Displays only day of the week
- date +"%B": Displays only month of the year
- timedatectl: Used to get timezone of our system
- timedatectl set-timezone Asia/Kolkata: used to set Indian timezone for our system
- whoami: Used to display in which user we login
- who: Displays the no.of users login info

PACKAGE INSTALLATION

- sudo apt-get update: Updates package lists for upgrades.
- sudo apt-get upgrade: Upgrades all upgradable packages
- sudo apt-get install pkgname: Install pkgname
 sudo apt-get remove pkgname: Removes
 pkgname4

COPY COMMANDS

- cp file1 file2: It copies data from file1 to file, the data will gets overwrite from file2
- cat file1>>file2: It copies the data, it will not overwrite the data
- cp filename directory: Copy the file to directory

USER COMMANDS

- cat/et/passwd: To see list of users
- useradd username: To create a user
- su username: To switch to another user
- passwd username: To set a password to the user
- useradd -M username: To create a user withour directory
 useradd -e yyyy-mm-dd username: To set
- expiry date to an user

 change -l username: To get user expiry
- details
 userdel username: To delete a user
- userdel -r username: To delete a user with directory

MOVE COMMANDS

- mv file1 file2: To rename the file
- mv filename directory: Move the file to directory
- cmp file1 file2: To compare multiple files at a time
- diff file1 file2: To get the difference from multiple files

HARDWARE COMMANDS

- cat: Used to read the data in a file
- /proc: It is a directory which contains processor of our system
- cpuinfo: It contains CPU information
- lscpu: Used to get CPUinformation
- free: To get RAM info in KB
- free -m: To get RAM info in MB
- df -h: To get storage ingo about our system
- fdisk -1: To get list volumes attached to our system

GROUP COMMANDS

- cat/et/group: To see list of groups in a system
- groupadd groupname: To create a group
- groupdel groupname: To delete a group
- usermod aa -G groupname username:
 To add a user in a group

FILE COMMANDS

TO CREATE FILE

- touch filename: To create a file
- II: It gives full info about files
 Is: It gives only file names
- touch file1 file2: To create multiple files
- 11 -t: To see latest files on top
- 11 -r: To see files in reverse order
- 11 -a: To see all files (including hidden files)

TO REMOVE FILES

- rm filename: To delete file with permission
- rm filename1 filename2: To delete multiple files with permission
- rm -f filename: To delete a file without permission
- rm -f filename1 filename2: To delete multiple files without permission
- rm -f file{1..7}: To delete files in sequential order
- rm -f a*: To delete all files which are started with A name
- rm -f*.txt: To delete all text files

TO INSERT DATA IN A FILE

- cat filename: To read the data in a file
- cat>filename: To insert some data in a file
- cat>>filename: To append some data in a file
- ctrl + d: To save the data
- cat -n filename: To display the data including line numbers
- head filename: To print top 10 lines of a file
 tail filename: To print last 10 lines of a file
- sed -n '5,17p' filename: To print a particular range
- tac filename: To print the data in reverse order
- cat file1 file2: To read the data from multiple files
- more file1 file2: To read the data from multiple file
- we filename: To get no.of lines, words & letters in a file

TO CREATE DIRECTORIES (FOLDERS)

- mkdir: To create a directory
- mkdir file1 file2: To create a multiple directories
- mkdir folder{1..5}: To create sequential directories
 rmdir foldername: To remove empty directories
- rmdir folder1 folder2: To remove multiple empty directories
- rmdir folder{1..5}: To remove empty directories in sequential order
- rmdir*: To remove all empty directories
 rm -rf*: To remove all files and folders
- rm -rf*: To remove all files and folde
 cd foldername: To change directory
- pwd: To get the present working directory
- cd or cd~: To go to root directory
 cd -: To go back to previous folder
- cd ../: To go to one step back folder

inside a directory

- cd ../../: To go back to 2 steps back
 mkdir folder1/folder2: To create a directory
- Il folder1: To check the list of files & folders in folder1
- mkdir -p folder1/folder2/folder3/folder4: To create parenting directories
- touch foldername/filename: To create a file inside a folder.







GREP COMMANDS

GLOBAL REGULAR EXPRESSION PRINT (GREP)

This command is used to search for a word in a

- grep "word" filename: To search for a word in a file.
- grep -n "word" filename: To get the word along with line numbers
- grep -i -n "word" filename: To search with case sensitive
- grep -i -c "word filename: To get no.of
- grep -i -n -e "word1" -e "word2" -e "word3" filename: To search for multiple words in a single file
- grep -i -n -e "word1" file1 file2: To search for single word in a multiple files
- grep -i -n -e "word1" -e "word2" -e "word3" file1 file2 file2 file3: To search for multiple words in a multiple files.

FIND COMMANDS

- find . -name file: To find in current directory
- find /proc/ -name filename: To find a file in proc directory
 find . -type d -name folder: To find a folder in current directory
- find .type f -perm 777: Finds all the files whose permissions are 777 in the current directory
- find . -type f -name<file1.txt>: Find a file in current directory
- \boldsymbol{find} . -type $\boldsymbol{f!}$ -perm 777: Finds all files whose permissions are NOT 777 in the current directory
- find . -perm /u=r: Finds all Read only files in the current find . -perm /a=x: Finds all executable files in the current
- find . -perm /a=w: Finds all writable files in the current
- directory find . -type f -empty: Find all empty files in the current
- directory find . -type d -empty: Find all empty directories in the
- find / -user <username>: Finds all the files specific user owned in/directory
- **find / -group groupname:** Finds all the files group owned
- in/directory find . -mtime10: Finds all files which are modified 10 days back in current folder
- find / -atime100: Finds all the files which are accessed 10 days back in current folder
- find . -cmin -60: Finds all the files which are changed in the last 1 hour in current directory
- find . -mmin -60: Finds all files which are modified in last 1hour in current directory
- find . -amin -60: Finds all files which are accessed in last 1 hour in current directory
- find . -size 1k: Finds all 1kb in current directory
- find / -size+50M-size-100M: Finds all files which are greater than 50mb and less than 100mb in/directory

LOCATE COMMANDS

- locate filename: Used to locate a word in linux(by default it will not locate, we need to update db ever time)
- sudo updatedb: Used to update linux db
- locate -i filename: Used to search for a file in case sensitive
- locate -n 5 "*.txt": Used to search top 5 text files
- locate -c aws*: Used to count no.of aws files present in server





CHANGING OWNER OF A FILE

- chown username filename: To change user of a file
- chgrp groupname filename: To change group of a file
- chown username:groupname filename: To change user & group at a time
- chown user:group file1 file2 file3: To change user & group at a time to multiple files
- chown user:group*: To change user & group at a time to all files
- chown user:group foldername: To change user $\operatorname{\mathscr{C}}$ group of a folder
- chown -R user:group foldername: To change user $\mathcal E$ group of a folder along with files.
- chown user:group foldername/*: To change user & group of a files which are present in folder.

CHANGING PERMISSIONS OF A FILE

- chmod 777 filename: To change permissions of a
- chmod 542 f1 f2 f3: To change permissions of a multiple files
- chmod 123*: To change permissions of all files
- chmod 561 folder: To change permissions of a
- chmod -R 777 foldername: To permissions of a folders along with files.
- chmod 345 foldername/*: To change permissions of a files inside the folder

