LINUX — COMMANDS → L1

I — SYSTEM_ COMMANDS $\rightarrow \rightarrow \rightarrow \rightarrow$

```
--> Login as root user
# sudo -i
# exit
              --> Exit from current user
             --> Which user logged in
# whoami
# pwd
             --> Current Working Directory
# cd
            --> Change Directory
      --> List Files / Directory in current path
# lshw
             --> List hardware configuration information
             --> View date
# date
# timedatectl
              --> View time & Date
( uname -a , -r , -v , -m )
            --> Calander
# whoami --> Displays the username of the current user
# clear --> Clear the screen
# uname -a,-r, --> Displays the Linux infromation
# uptime --> Shows how long system is running
# last reboot --> List system reboot history
# hostname --> Shows the system hostname
# hostname -i --> Show the IP address of System
# shutdown now --> Shutdown my system / server
# finger username --> Displays information about a user
# top , htop ,btop--> View the running process
    * kill -9 \rightarrow to kill the running processor forcefuly
    * kill -15 -> to kill the running processor properly
# ps -ef --> to view the running processor
    # ps -ef | grep ec2-user -> to view the particular processor
# cat /proc/cpuinfo --> CPU info
# cat /proc/meminfo --> Memory Info
# HISTTIMEFORMAT="%Y-%m-%d %T " --> View complte history
```

I I — DIRECTORY / FILE $_$ COMMANDS \rightarrow \rightarrow \rightarrow

```
--> Create a directory
# mkdir Dir 1
 # mkdir Tester{0..5} => Create 6 dir at time
 # rmdir -f Tester{0..5} => Delete 6 dir at time.
# touch File 1
                         --> Create a File without content
 # touch Developer{0..5} => Create 6 dir at time
  # rm -f Developer{0..5} => Delete 6 dir at time
# echo " My linux commands " > testing.txt --> Create a file with content
# cat > File 2
                          --> Create a file with content
# diff File_1 File_2 --> Compare two files and display differences.
_______
# tail -f /var/log/syslog --> Check System logs @ Run time ( IMPORTANT REAL TIME )
# less updates.txt <<< /// >>> more updates.txt => content page by page view
# head -10 updates.txt    --> Shows first 10 lines of file
# tail -10 updates.txt --> Shows last 10 lines of file
```

III — VI / VIM $_$ EDITOR \rightarrow \rightarrow \rightarrow \rightarrow

```
• # :wq
         --> Save & Quit
• # :q!
         --> quit force without saves
• # 3yy
         --> Copy 3 lines <<< /// >>> p => Paste a lines
         --> delete single line ,3dd => delete 3 lines, x = backspace
• # dd
• # :%d --> Delete all lines
• # :set nu / :set nonu --> Numbers settings
• # :2 --> Navigate that line
• # u
          --> Undo
• # Ctrl+r --> Redo
• # / = Search, downside >>> "n" upside >>> "shft+n" → next and next
• # :%s/uma/umasankar/g or gc => Search & Replace all in text file completely.
• # g + U + w & g+u+w => change uppercase to lower case
• \# g + U + G & g + u + gg => all line uppercase & Lowercase
• \# cntrl+z <<< /// >>> fg --> Minimize and Maximize editor ( Must save& Exit before
close terminal )
• # gg --> switch to the first line
• # shift + g --> switch to the last line
```

IV — FILE COMPRESSION / TRANSFER_COMMANDS

```
# scp file_1 ec2-user@1.1.1.1 /home/ec2-user --> File transfer Server_1 to Server_2
# wget <URL> --> Download any tool / file from internet
```

```
# sudo curl -0 [link] --> Transfer data to or from a server to Servers
# tar -cvzf [file/directory] --> Archive [file/directory] using TAR_FORMAT
# tar -xvzf [file/directory.tar] --> Un-Archive [file/directory] using TAR_FORMAT
# gzip [file_name] --> Archive [file/directory] using gzip_FORMAT
# gunzip [file_name.gz] --> Un-Archive [file/directory] using gzip_FORMAT
```

V — NETWORKING / SSH $_$ COMMANDS \rightarrow \rightarrow \rightarrow

$\textbf{VI} \color{red} \color{red} \color{red} \color{blue} \textbf{DISK_COMMANDS} \rightarrow \color{red} \rightarrow \color{red} \rightarrow \color{red} \rightarrow$

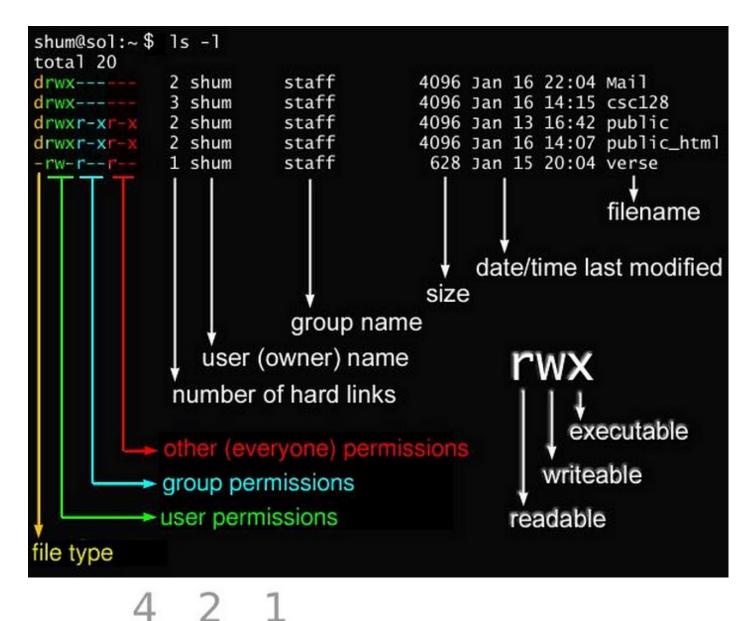
VII — BOOTSTRAP → → → APACHE_INSTALLATION

```
1, Redhat_LINUX -->
------
#! /bin/bash
sudo yum install httpd -y
```

VII — Encrypt/decrypt via Linux_command

```
# echo "Sankar" -> Encrypt this variable / Password
# echo -n "Sankar" | base64 -> En encrypted
# echo -n "uty54yt55t5t5t6" | base64 - decode -> Decrypted
```

VIII — File / DIR CHANGE PERMISSION_ COMMAND



no permissions 0 only execute 1 Х 2 only write 3 write and execute X W 4 only read read and execute 5 X read and write 6 read, write and execute X

```
* R - read -> 4

* W - Write -> 2

* X - excute -> 1

# ls -larth --> List files / Dirs

# chmod 754 file_name --> Change permission File_name

# chmod U=rwx, G=rx-, O=-r- file_name

# chmod 777 Sathish => Set full permission ( File / Directory )
```

IX — File / DIR CHANGE PERMISSION_ COMMAND

X — KEY_BOARD SHORTCUTS $\rightarrow \rightarrow \rightarrow$