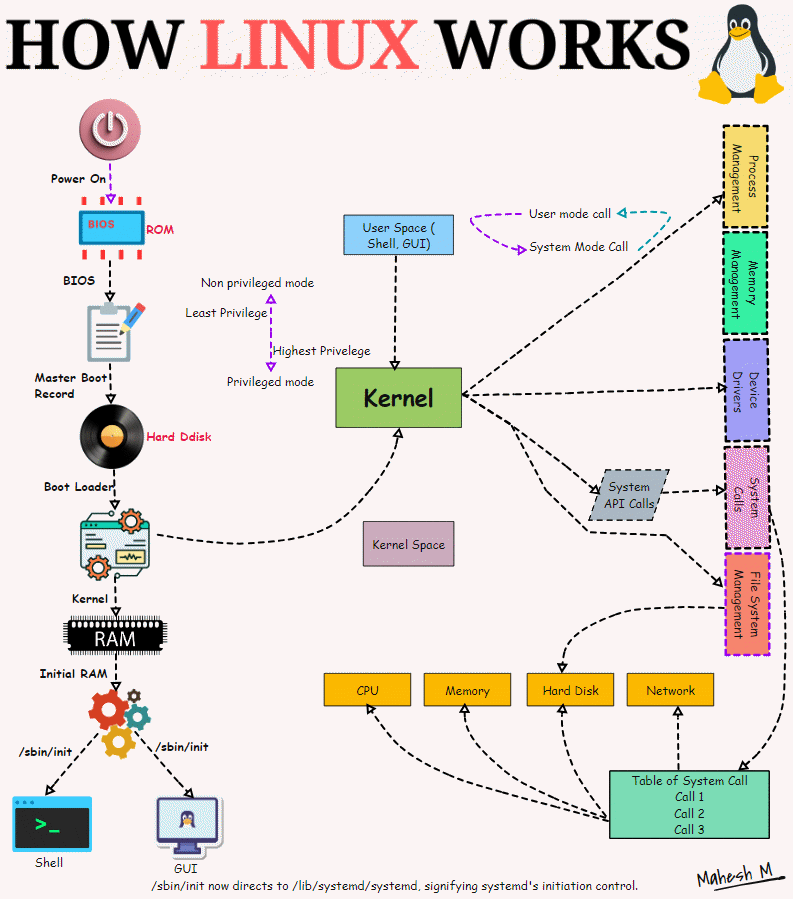
**LINUX COMMANDS  
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**shell and terminal:**

**shell is a program which takes input and gives output.**

**Terminal is a tool to execute the shell commands,is also called as CLI(Command line interface).**

**/ (Forward slash) root directory**

**~ (Tild) home directory**

**pwd -** preset working directory

**cd -** change directory

**cd .. -** one step back

**cd ../..** two steps back

**ls -** list

**ls -l** list long

**ls -a** list of files+hidden files

**ls -la** hidden files+ long list

**ls -lS** list of files in sorting format(Higher volumes to lower)

**ls -d** \*/ list all the directories only

**I/O redirection:**

**echo "hello world" > test.txt - store the value in text.txt (> it will override the file)**

**echo "hello world" >> test.txt - append the file**

**permissions**

**d(directory)rwx(owner/user)rwx(group)rwx(others)**

**-(file)rwxrwxrwx**

**r-read=4**

**w-write=2**

**x-execute=1**

**cat fileame.txt -** To Read content of file

**cat filename1.txt filename2.txt -** To read content of two files

**cat -b filename.txt -** View content with line number and it will ignore empty lines.

**cat -n filename.txt -** view content with line number and it will not ignore empty lines.

**mkdir Anil -** create a directory

**mkdir Anil/hello -** crearte a directory hello in anil

**mkdir -p Anil/hello - create** a directory sabair and hello under anil

**rm file\_name -** remove/delete a file

**rm -rf -** remove/delete a directory

**cp filename /destinatio\_path - copy** a file to destination folder

**mv file1 file2 -** rename a file from file1 to file2

**mv file1 /destiantion -** move file from one location to another

**wc file\_name -** wordcount of file(display number of lines in files)

**head -3 file\_name -** top 3 lies of file

**tail -2 file\_name -** last two lies of file

**tail -F file\_name -** continously monitor file\_name

**less file\_name -** show less part of file(as much as terminal allows)

**touch file\_name -** create a zero byte file

**sudo -(superuserdo)**

**It allows you to get some extra priviliges as the admin does.**

**sudo su -**switch to root user

**sudo -s -** switch to root user(it will ask for sudo password)

**Top -** Top command provides dynamic realtime view of your system.

**Kill -**kill is used to kill a processes

**kill -9 PID -** kill that particular process and -9 flag is used to kill it forcefully.

**kill -l -** it will list all flags which can be used to kll processes.

**chmod -** change permissions for a file.

**drwx(owner/user)rwx(group)rwx(other)**

**r= read - 4**

**w= write - 2**

**x= execute -1**

**chown -** change owner of file or directory

**which bash -** this is used to find the location of any commad or file

**whatis ls - this is used to return the short description of command or any applciation.**

**useradd sabair - To create a user sabair**

**useradd sabair -m -s /bin/bash (-m is used to create a home directory for a user and -s is shell)**

**passwd sabair - To assign a password to user sabair**

**userdel sabair - Delete user sabair. (This will delete the user sabair and not the home directory)**

**userdel -r sabair - Delete the user sabair and its home directory.**

**groups - it is used to check the list of groups assocaited with particular user.**

**groupadd java - create a group named java**

**To view list of groups - cat /etc/group**

**groupdel java - To delete a group**

**gpasswd -a user\_name groupd\_name (-a to add user to group, -d to remove user from group)**

**df - Is used to display the amount of free space in your filesystem.**

**df -h - It will make more human readable.**

**du - Is used to display the amounnt of memory taken by files.**

**du -h - It ill make more human readable.**

**free - find the free memory of the system.**

**free -m - Human readable to megabytes.**

**wc filename.txt - Is used to see the word count of any file(lines,words,characters)**