sudo -i # switch to root user

whoami # display username

hostname # display hostname/machinename

hostname localhost # change hostname

bash

date # display current date

cal # shows current month calender

df -h # disk info(storage)

free # display memory (RAM)

du -sh /etc # display size of file/dir

pwd # present working directory

ls # list

cd # change directory

mkdir devops # create new dir

cd devops # get inside devops dir

cd .. # back to previous dir

touch notes.txt # create empty file

cat > notes.txt # create file with content (override)

hi im chitti

-->enter

--> cntrl + D # save file

cat >> notes.txt # append file content

echo "Hello World!" > index.html # create file and add content

cat notes.txt # read file

rm -rvf <dirname>

- r : recursive

-v : view

-f : forcefully

---

Copy:

cp <sourcefile> <destination>

ex.

cp india.txt speech.txt # copy file at same location

cp india.txt /devops/notes.txt # copy file at diff location

---

Move:

mv india.txt /devops # move file to /devops dir

Rename:

mv india.txt bharat.txt # rename file

VIM EDITOR:

1. command mode [default] {copy, paste, delete}

2. insert mode { text add }

3. execution mode { save, exit, numbers, replace}

4. visual mode

1. Insert Mode: Press i to enter into insert mode

esc -> exit from mode

2. commaand mode:

gg or H -> move cursor on top

G or L -> move cursor at bottom

yy --> copy line

p --> paste

dd --> delete line

u --> undo

4yy --> copy four lines from cursor

4dd --> 4 lines will delete

3. execution mode:

:w #save files

:q #quit file

:wq #save and quit or

:x

:set nu #aasign numbers

:set nonu #remove numbers

:%s/india/bharat # replace india word with bharat

pes of users:

1. root user # --> full permissons id=0

2. local user $ --> limited permissions id= 1000-65535

3. system user id= 1-999

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Adding New User:

#useradd <username> ex. useradd tony (home dir /home/tony)

#passwd tony -> assign password to user

# su - tony -> log in into user tony

# exit -> logout

#adduser <username>

# cat /etc/passwd -> all user info

# cat /etc/shadow -> user pass info

# userdel -r tony -> delete user from system

New Group Creation:

# groupadd <groupname> -> create groupadd

# cat /etc/group

# cat /etc/gshadow -> group password info

#gpasswd -a tony avengers -> adding user tony to group avengers

#gpasswd -d tony avengers -> delete user tony from group avengers

#gpasswd -M tony,natasha,steve,bruce avengers -> add multiple users into group

**Basic Networking Commands:**

**(Linux)**

**# ifconfig --> view private ip address**

**# curl ifconfig.me -> view public ip address**

**# ping -> test network connectivity**

**Example:**

**# ping 8.8.8.8 or ping google.com**

**# tracert google.com -> trace route to a host**

**(windows)**

**# getmac ->check mac address**

**# ipconfig --> check private ip address**

* **Calculate umask:**

**full permission - default permission =umask**

* **ACL use to set permission over file and directory for specific user or specific group.**

#getfacl --to check permission

#setfacl --to apply acl permission

**#setfacl -m u:username:permission filename**



-x to remove acl



Set acl to group dev:

**# setfacl -m g:groupname:permission filename**



To remove group acl :

