Linux commands

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• Is - list the files and directories in the current directory

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• cd - change the current directory

cd dir_name

• mkdir - create a new directory

mkdir rohan

• rmdir - remove a directory

rmdir rohan

• pwd - print the current working directory

pwd

• cp - copy files or directories

#We will copy a file called example.txt from the current d irectory to a directory called backup cp example.txt backup/

• mv - move or rename files or directories

```
mv example.txt backup/
```

• rm - remove files or directories

```
rm example.txt
```

• touch - create a new empty file or update the timestamp of an existing file

```
touch shayan.txt
```

• cat - concatenate and display files

```
cat example.txt
```

• man - manual for a command

```
man ls
```

• htop - an interactive process viewer and system monitor

htop

chmod - change the permissions of a file or directory

```
# The first digit represents the owner of the file/directo
ry
# The second digit represents the group that the file/dire
ctory belongs to
# The third digit represents all other users
# 0 (no permission)
# 1 (execute only)
# 2 (write only)
# 3 (write and execute)
# 4 (read only)
# 5 (read and execute)
# 6 (read and write)
# 7 (read, write, and execute)
```

chown - change the owner of a file or directory

```
chown new_owner example.txt
```

• tar - create or extract compressed archive files

```
# x: extract files from an archive
# t: list the contents of an archive
# r: append files to an existing archive
# z: use gzip compression
# j: use bzip2 compression
```

```
# cf: create file
#xf: extract file
tar cf archive.tar file1 file2 file3
```

• gzip - compress files

```
gzip file.txt
```

• gunzip - decompress compressed files

```
gunzip file.txt.gz
```

• ssh - connect to a remote server securely

```
ssh username@server_address
```

• scp - securely copy files between systems

```
scp myfile.txt user@remotehost:/home/user/
```

• ping - test network connectivity

```
ping 8.8.8.8
```

• ifconfig - display or configure network interfaces

ifconfig

• netstat - display network connection information

netstat

• route - view or configure network routing tables

route [options] [add/delete/show]

• top - display system resource usage and processes

top

• ps - display information about running processes

ps aux

• kill - terminate a process

kill [PID]

• systemctl - control system services and settings

Start the nginx service
systemctl start nginx

```
# Check the status of the nginx service
systemctl status nginx
# Stop the nginx service
systemctl stop nginx
```

• service - control system services

```
service apache2 start
```

• useradd - add a new user to the system

```
useradd harry
```

• passwd - change the password for a user

```
passwd harry
```

• userdel - delete a user from the system

```
userdel harry
```

• su - switch user to become another user

```
su john
```

•	sudo - execute a command as another user or with elevated privileges
	sudo
• (uptime - display system uptime and load average
	uptime
•	df - display disk space usage
	df
 du - display disk usage by file or directory 	
	du
•	mount - mount a file system
	sudo mount /dev/sdb1 /mnt/usb
•	umount - unmount a file system
	sudo umount /mnt/usb
•	date - display or set the system date and time

date • whoami - display the current user name whoami • which - locate a program or command in the system path 1s • finger - displays all the information about user finger harry • uname - display system information uname uname -a • history - display a list of previously executed commands history • echo - display text or variables to the console echo 'I need Tshirt from codeswear!'

• tee - redirect output to both a file and the console

```
$ ls | tee file.txt
```

• locate - locate any file on the system

```
locate file.txt
```

• sort - sort lines of text in a file or input

```
cat file.txt
banana
orange
apple
sort file.txt
apple
banana
orange
```

• uniq - remove duplicate lines from a file or input

```
cat file.txt
apple
orange
banana
apple
banana
uniq file.txt
apple
```

orange banana

Сору

• head/tail - display the first/last few lines of a file or input

```
#display first 10 lines
head file.txt
#display last 10 lines
tail file.txt
```