

Linux Commands — Basic to Advanced (Table Format)

1) Basic Commands

Command	Description	Example
pwd	Current working directory dikhata hai	pwd
ls	Files/directories list karta hai	ls -la
cd	Directory change karta hai	cd /etc
mkdir	New directory create karta hai	mkdir projects
rmdir	Empty directory delete	rmdir test
touch	Empty file create	touch file.txt
cat	File content display	cat file.txt
cp	File/directory copy	cp a.txt b.txt
mv	Move/rename file	mv old.txt new.txt
rm	Delete file/folder	rm -rf folder/
echo	Text output karta hai	echo "Hello Linux"

2) File Viewing & Text Processing

Command	Description	Example
head	First 10 lines show	head file.txt
tail	Last 10 lines show	tail -f log.txt
less	Scrollable file view	less bigfile.txt
grep	Search text pattern	grep "error" log.txt
sort	Lines ko sort karta hai	sort names.txt
uniq	Remove duplicates	uniq sorted.txt
cut	Text columns extract	cut -d',' -f1 data.csv
awk	Column/record processing	awk '{print \$1}' file

Command Description		Example
sed	Replace/edit text	sed 's/foo/bar/g' file.txt
wc	Count lines/words/chars	wc -l file.txt

3) Permission & Ownership

Command Description		Example
chmod	File permissions change	chmod 755 script.sh
chown	File owner/group change	sudo chown user:user file
umask	Default permission mask	umask 022
getfacl	ACL permissions dekho	getfacl file.txt
setfacl	ACL set/update	setfacl -m u:user:r file.txt

4) Process Management

Command Description		Example
ps	Running processes show	ps aux
top	Live system monitor	top
htop	Advanced top viewer	htop
kill	Process kill	kill 1234
pkill	Name se process kill	pkill nginx
nice	Start with priority	nice -n 10 script.sh
renice	Running process priority change	renice 5 1234
jobs	Background jobs list	jobs
fg	Job ko foreground me lao	fg %1
bg	Job ko background me bhejo	bg %1

5) Disk & File System Commands

Command	Description	Example
df -h	Disk usage show	df -h
du -sh	Folder size show	du -sh /var/log
mount	Device mount	mount /dev/sdb1 /mnt
umount	Device unmount	umount /mnt
fdisk	Disk partition tool	sudo fdisk -l
lsblk	Block devices list	lsblk

6) Networking Commands

Command	Description	Example
ping	Server reachable hai ya nahi	ping google.com
ifconfig / ip addr	Network config show	ip addr
curl	URL request send	curl https://api.com
wget	File download	wget file.com/app.zip
netstat	Network stats	netstat -tulnp
ss	Faster netstat alternative	ss -tulnp
scp	Remote copy	scp file user@host:/path
ssh	Remote server login	ssh user@server

7) Package Management

Ubuntu / Debian

Command	Description	Example
apt update	Package list update	sudo apt update
apt install	Install software	sudo apt install nginx

Command	Description	Example
apt remove	Uninstall software	sudo apt remove nginx

CentOS / RHEL

Command	Description	Example
yum install	Install package	sudo yum install httpd
yum update	Update packages	sudo yum update

8) System & Service Management

Command	Description	Example
systemctl start	Service start	systemctl start nginx
systemctl stop	Service stop	systemctl stop nginx
systemctl status	Service status	systemctl status nginx
journalctl	Logs dekhna	journalctl -u nginx
service	Legacy service control	service ssh restart

9) Advanced Commands

Command	Description	Example
tar	Compress/extract files	tar -czf files.tar.gz folder/
zip / unzip	Zip archive	zip -r data.zip folder/
find	Powerful searching	find / -name file.txt
crontab -e	Schedule tasks	crontab -e
alias	Custom shortcuts	alias ll='ls -la'
env	Environment variables	env
export	Variable set	export PATH=\$PATH:/new/path