Linux Commands Cheat Sheet

Basic Commands

Command	Syntax	Example
whoami	whoami	whoami
pwd	pwd	pwd
mkdir	mkdir [directory]	mkdir myfolder
ls	ls [options] [dir]	ls -l
cd	cd [directory]	cd /home
cd ..	cd ..	cd ..
clear	clear	clear
touch	touch [filename]	touch file1.txt
rm	rm [file]	rm file1.txt
cat	cat [file]	cat file1.txt
rm -r	rm -r [dir]	rm -r myfolder
vi	vi [filename]	vi file1.txt
sed	sed 's/old/new/' [file]	sed 's/Hi/Hello/' file1.txt
more	more [file]	more file1.txt
less	less [file]	less file1.txt
head	head [file]	head file1.txt
tail	tail [file]	tail file1.txt
sort	sort [file]	sort data.txt
man	man [command]	man ls
history	history	history
tar	tar [options] [archive] [file/dir]	tar -cvf backup.tar myfolder/
grep	grep [pattern] [file]	grep "error" logfile.log
grep with |	command | grep [pattern]	ls -l | grep ".txt"
mount	mount [device] [dir]	mount /dev/sdb1 /mnt/usb
fdisk	fdisk [device]	fdisk /dev/sdb
umount	umount [dir]	umount /mnt/usb

System Admin Commands

Command	Syntax	Example
apt	apt install [package]	apt install nginx
yum	yum install [package]	yum install httpd
id	id [user]	id vaishnav
/etc/passwd	cat /etc/passwd	cat /etc/passwd
/etc/group	cat /etc/group	cat /etc/group
/etc/shadow	sudo cat /etc/shadow	sudo cat /etc/shadow
adduser	adduser [user]	adduser testuser
su	su [user]	su root
usermod	usermod [options] [user]	usermod -aG sudo testuser
deluser	deluser [user]	deluser testuser

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ls -l	ls -l	ls -l /home
chown	chown [owner]:[group] [file]	chown vaishnav:vaishnav file1.txt
chmod	chmod [permissions] [file]	chmod 755 file1.txt

Process Management Commands

Command	Syntax	Example
ps aux	ps aux	ps aux
kill	kill [PID]	kill 1245
top	top	top
htop	htop	htop

Service Management Commands

Command	Syntax	Example
systemctl	systemctl [action] [service]	systemctl restart nginx
df	df -h	df -h
free	free -h	free -h
uname -a	uname -a	uname -a

Networking Commands

Command	Syntax	Example
ifconfig	ifconfig	ifconfig
ip a	ip a	ip a
ping	ping [host]	ping google.com
traceroute	traceroute [host]	traceroute google.com
tracepath	tracepath [host]	tracepath google.com
netstat -rn	netstat -rn	netstat -rn
iptables	iptables [options]	iptables -L
firewalld	systemctl status firewalld	systemctl start firewalld
ssh	ssh [user]@[host]	ssh user@192.168.1.2
telnet	telnet [host]	telnet google.com
curl	curl [url]	curl https://google.com
wget	wget [url]	wget https://example.com/file.zip
journalctl -u	journalctl -u [service]	journalctl -u nginx
dmesg	dmesg	dmesg