Linux Command Cheat Sheet

Command	Use Case	Example
pwd	Present working directory	pwd
ls	List files and folders	ls -l
cd	Change directory	cd /home/user
mkdir	Make directory	mkdir new_folder
rmdir	Remove directory if it's empty	rmdir empty_folder
rm	Remove files/folders recursively	rm -rf myfolder
cp	Copy files/folders	cp -r src_folder dest_folder
mv	Move or rename files/folders	mv old.txt new.txt
ln	Create link (soft or hard)	ln -s /path/to/file linkname
cat	Print file content	cat file.txt
less	Show file content page by page	less bigfile.txt
echo	Echo output to console or file	echo 'Hello' > hello.txt
which	Find path of command	which python
df	Show disk free space	df -h
du	Calculate folder size	du -sh myfolder
tar	Archive files	tar -czvf backup.tar.gz myfolder
gzip	Compress a file	gzip file.txt
unzip	Extract zip file	unzip archive.zip
tree	Show file structure	tree
grep	Search text in files	grep 'error' logfile.txt
find	Find files/folders	find . -name '*.log'
tail	Print last 10 lines of file	tail logfile.txt
chmod	Change file permissions	chmod 755 script.sh
chown	Change file owner	chown user:group file.txt

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chgrp	Change group of a file	chgrp staff file.txt
chattr	Change file attributes	chattr +i important.txt
umask	Set default permission mask	umask 022
cut	Split text by delimiter	cut -d ':' -f1 /etc/passwd
sort	Sort input	sort names.txt
uniq	Remove duplicate lines	sort file.txt | uniq
nohup	Run command immune to hangups	nohup ./script.sh &
id	Show user and group ID	id
adduser	Create a new user	sudo adduser newuser
addgroup	Create a user group	sudo addgroup devs
usermod	Modify user account	usermod -aG sudo user
passwd	Change user password	passwd user
groups	Show groups of user	groups
who	Show who is logged in	who
w	Show who is logged in and what they are ...	w
ps	Show running processes	ps aux
kill	Terminate a process	kill -9 1234
top	Display running processes live	top
env	Show environment variables	env
set	Show/set shell variables	set
export	Set environment variable	export PATH=$PATH:/new/path
ssh-keygen	Generate SSH key	ssh-keygen -t rsa
ssh-copy-id	Copy SSH key to remote	ssh-copy-id user@host
ssh	Connect to remote host via SSH	ssh user@host
scp	Copy files securely between hosts	scp file.txt user@host:/dest

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wget	Download from web	wget http://example.com/file.txt
curl	HTTP client request tool	curl https://api.example.com
nc	Netcat - TCP/UDP networking utility	nc -zv google.com 80
ping	Check connectivity	ping google.com
ifconfig	Show network interfaces	ifconfig
ip	Newer IP configuration tool	ip a
hostname	Display system hostname	hostname
traceroute	Trace network path to host	traceroute google.com
mtr	Network diagnostics (traceroute + ping)	sudo mtr google.com
nslookup	DNS lookup	nslookup example.com
netstat	Show network connections	netstat -tulnp
host	DNS lookup	host example.com
tcpdump	Capture network packets	sudo tcpdump -i eth0
dig	DNS diagnostics and queries	dig example.com