

# Linux Cheatsheet

## Files and Navigation

Command	Description
ls	list all files/folders on current dir
ls -l	formatted listing
ls -la	formatted listing including hidden files
cd <dir>	change directory to dir
cd ..	change to parent directory
cd ./<dir>	change to dir in parent directory
cd	change to home directory
pwd	show current directory
mkdir <dir>	create a directory dir
rm <file>	remove file
rm -f <dir>	force remove file
rm -r <dir>	remove directory dir
rm -rf <dir>	force remove directory dir
rm -rf /	It's like exploding a nuclear bomb targeting your entire operating system. NEVER USE IT!
cp <file1> <file2>	copy file1 to file2
mv <file1> <file2>	mv file1 to file2
mv <file1> <dir/file2>	mv file1 to dir as file2
touch <file>	create or update file
cat <file>	output contents of file
cat > <file>	write standard input into file
cat » <file>	append standard input into file
tail -f <file>	output contents of file as it grows

## Processes

Command	Description
ps	display currently active processes
ps aux	detailed outputs
kill pid	kill process with process id (pid)
killall proc	kill all processes named proc

## System Info

Command	Description
date	show current date/time
uptime	show uptime
whoami	show you are logged in as
w	display who is online
cat /proc/cpuinfo	display cpu info

Command	Description
cat /proc/meminfo	display memory info
free	show memory and swap usage
du	show directory space usage
du -sh	display readable sizes in GB
df	show disk usage
uname -a	show kernel config

## Networking

Command	Description
ping host	ping host
whois domain	get whois for domain
dig domain	get DNS for domain
dig -x host	reverse lookup host
wget <file>	download file
wget -c <file>	continue stopped download
wget -r <url>	recursively download file from url
curl <url>	output the webpage from url
curl -o page.html url	writes the page to page.html
ssh -p port user@host	connect using port
ssh -D user@host	connect and use bind port

## Permissions

Command	Description
chmod	change permission of file

- 4 → read r
- 2 → write w
- 1 → execute x

**order:** owner/group/world → - rwxrwxrwx

Example:

\* chmod 777 rwx for everyone \* chmod 755 rwx for owner, rx for group and world

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