

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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