

Linux Cheat Sheet

Basic Commands

- **pwd**: Print working directory
- **ls**: List directory contents
 - **ls -l**: Long format
 - **ls -a**: Show hidden files
- **cd [directory]**: Change directory
- **mkdir [directory]**: Create a new directory
- **rmdir [directory]**: Remove an empty directory
- **rm [file]**: Remove a file
 - **rm -r [directory]**: Remove a directory and its contents
- **cp [source] [destination]**: Copy files or directories
- **mv [source] [destination]**: Move or rename files or directories
- **touch [file]**: Create an empty file or update the timestamp

File Viewing and Editing

- **cat [file]**: Concatenate and display file content
- **more [file]**: View file content page by page
- **less [file]**: View file content with backward navigation
- **head [file]**: View the beginning of a file
- **tail [file]**: View the end of a file
 - **tail -f [file]**: Follow file changes
- **nano [file]**: Edit a file with nano editor
- **vim [file]**: Edit a file with vim editor

File Permissions

- **chmod [permissions] [file]**: Change file permissions
 - **chmod 755 [file]**: Set read/write/execute for owner, read/execute for others
- **chown [owner]:[group] [file]**: Change file owner and group

- **chgrp [group] [file]:** Change group ownership

System Information

- **uname -a:** Display system information
- **df -h:** Display disk space usage
- **du -h [directory]:** Display directory size
- **top:** Display running processes
- **ps aux:** Display a snapshot of current processes
- **free -h:** Display memory usage
- **uptime:** Display how long the system has been running

Networking

- **ifconfig:** Display network interfaces (deprecated, use ip instead)
- **ip a:** Display network interfaces
- **ping [host]:** Send ICMP ECHO_REQUEST to network hosts
- **netstat -tuln:** Display network connections
- **ssh [user]@[host]:** Connect to a remote machine via SSH
- **scp [file] [user]@[host]:[destination]:** Copy files over SSH

Package Management

- **Debian/Ubuntu:**
 - **apt-get update:** Update package list
 - **apt-get upgrade:** Upgrade all packages
 - **apt-get install [package]:** Install a package
 - **apt-get remove [package]:** Remove a package
- **Red Hat/CentOS:**
 - **yum update:** Update package list and packages
 - **yum install [package]:** Install a package
 - **yum remove [package]:** Remove a package

Archiving and Compression

- **tar -cvf [archive.tar] [files]:** Create a tarball
- **tar -xvf [archive.tar]:** Extract a tarball

- **gzip [file]:** Compress a file with gzip
- **gunzip [file.gz]:** Decompress a gzip file
- **zip [archive.zip] [files]:** Create a zip archive
- **unzip [archive.zip]:** Extract a zip archive

Searching

- **grep [pattern] [file]:** Search for a pattern in a file
- **find [directory] -name [file]:** Find files by name
- **locate [file]:** Find files by name using a database

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