



Learn.Code.Rise

Shell Essential Commands

File & Directory Operations

- **List files:** `ls`
- **List with details:** `ls -l`
- **List hidden files:** `ls -a`
- **Change directory:** `cd folder_name`
- **Go back one directory:** `cd ..`
- **Present directory:** `pwd`
- **Create directory:** `mkdir folder_name`
- **Remove file:** `rm file_name`
- **Remove directory:** `rm -r folder_name`
- **Copy file:** `cp source.txt destination.txt`
- **Move/rename file:** `mv old.txt new.txt`



File Viewing & Editing

- **View file content:** `cat file.txt`
- **Page view:** `less file.txt` / `more file.txt`
- **Head (first lines):** `head -n 10 file.txt`
- **Tail (last lines):** `tail -n 10 file.txt`
- **Edit file (CLI editor):** `nano file.txt` / `vim file.txt`

Searching & Filtering

- **Search in file:** `grep "pattern" file.txt`
- **Recursive grep:** `grep -r "pattern" ./`
- **Find files by name:** `find . -name "*.txt"`
- **Find by type:** `find /path -type f -name "*.sh"`
- **Search command history:** `history` | `grep command`

Permissions & Ownership

- **Show permissions:** `ls -l`
- **Change permissions:** `chmod +x script.sh`
- **Recursive chmod:** `chmod -R 755 folder`
- **Change ownership:** `chown user:group file`
- **Become root:** `sudo command`

Process Management

- **Current processes:** `ps aux`
- **Filter process:** `ps aux | grep python`
- **Kill by PID:** `kill 1234`
- **Force kill:** `kill -9 1234`
- **Background job:** `command &`
- **List jobs:** `jobs`
- **Bring to foreground:** `fg %1`

Networking & System

- **Show IP:** `ip a` / `ifconfig`
- **Ping:** `ping google.com`
- **Download file:** `wget URL` / `curl -O URL`
- **System info:** `uname -a`
- **Disk usage:** `df -h`
- **Memory usage:** `free -h`

Package Management (Debian/Ubuntu)

- **Update list:** `sudo apt update`
- **Upgrade packages:** `sudo apt upgrade`
- **Install package:** `sudo apt install name`
- **Remove package:** `sudo apt remove name`
- **Search package:** `apt search name`

