

Linux Fundamentals - Cheat Sheet



Command	Description
<code>pwd</code>	Show current directory
<code>ls -l</code>	List directory contents
<code>cd /path/to/folder</code>	Change directory
<code>cd ..</code>	Move up one directory level
<code>cd ~</code>	Return to home directory
<code>mkdir foldername</code>	Create a new directory
<code>mkdir -p dir1/dir2/dir3</code>	Create nested directories
<code>touch file.txt</code>	Create an empty file
<code>mv file.txt new_location/</code>	Move or rename a file
<code>cp file.txt new_location/</code>	Copy a file
<code>cp -r folder new_folder</code>	Copy a directory recursively
<code>rm file.txt</code>	Delete a file
<code>rmdir folder</code>	Delete an empty directory
<code>rm -r folder</code>	Delete a directory with its contents
<code>cat file.txt</code>	Display file contents
<code>less file.txt</code>	View file contents with pagination
<code>head file.txt</code>	Show the first 10 lines of a file
<code>tail file.txt</code>	Show the last 10 lines of a file
<code>nano file.txt</code>	Edit a file using nano
<code>whoami</code>	Show the current user
<code>su username</code>	Switch to another user
<code>sudo command</code>	Execute command as root
<code>useradd -m username</code>	Create a new user
<code>passwd username</code>	Change a user's password
<code>usermod -aG group username</code>	Add a user to a group
<code>groups username</code>	Show groups of a user
<code>chown user:group file</code>	Change file ownership
<code>chmod 755 file.txt</code>	Change file permissions

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Command	Description
<code>ps aux</code>	Show running processes
<code>kill PID</code>	Kill a process by ID
<code>killall process_name</code>	Kill a process by name
<code>top</code>	Show real-time system processes
<code>htop</code>	Show interactive process viewer
<code>uptime</code>	Show system uptime
<code>w</code>	Show logged-in users
<code>uname -a</code>	Show system information
<code>journalctl -xe</code>	View system logs
<code>timedatectl set-timezone TZ</code>	Change the system timezone
<code>reboot</code>	Reboot the system
<code>shutdown -h now</code>	Shutdown the system immediately
<code>shutdown -r now</code>	Restart the system immediately
<code>dpkg -l</code>	List installed packages (Debian)
<code>rpm -qa</code>	List installed packages (RPM)
<code>apt update</code>	Update package lists (Debian)
<code>apt upgrade</code>	Upgrade installed packages (Debian)
<code>apt dist-upgrade</code>	Upgrade system with dependency resolution (Debian)
<code>apt install package-name</code>	Install a package (Debian)
<code>apt remove package-name</code>	Remove a package (Debian)
<code>dnf update</code>	Update system packages (Red Hat)
<code>dnf upgrade</code>	Upgrade installed packages (Red Hat)
<code>dnf install package-name</code>	Install a package (Red Hat)
<code>dnf remove package-name</code>	Remove a package (Red Hat)

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Command	Description
<code>df -h</code>	Show disk space usage
<code>du -sh folder</code>	Show directory size
<code>free -m</code>	Show memory usage
<code>ip a</code>	Show network interfaces and IP addresses
<code>netstat -tulnp</code>	Show active network connections
<code>ss -tulnp</code>	Show open network connections
<code>ping example.com</code>	Check connectivity to a host
<code>wget URL</code>	Download a file from a URL
<code>curl URL</code>	Transfer data from or to a server
<code>traceroute example.com</code>	Show the route packets take to a host
<code>nslookup domain.com</code>	Query DNS records
<code>dig domain.com</code>	Perform a DNS lookup
<code>hostname -I</code>	Show system's IP address
<code>man command</code>	Show manual page for a command
<code>command -h</code>	Show command help page
<code>lspci</code>	List all PCI devices
<code>lsusb</code>	List all USB devices
<code>find / -name file.txt</code>	Find a file in the system
<code>grep 'text' file.txt</code>	Search for text in a file
<code>history</code>	Show command history
<code>clear</code>	Clear the terminal screen
<code>alias ll='ls -la'</code>	Create an alias
<code>apropos <keyword></code>	Search for a command in manual pages
<code>echo "text" > file.txt</code>	Write text to a file
<code>cat /etc/os-release</code>	Show OS version information