Linux Cheat Sheet for Engineers

File System Operations

- ls: List Directory Contents
- cd: Change directory
- pwd: Print name of current directory
- mkdir: Make directories
- cp: Copy files and directories
- mv: Move/rename files and directories
- rm: Remove files or directories
- touch: Create an empty file
- cat: Display file content
- nano: Text editor for creating /editing files

File Permissions

- chmod: Change file permissions
- chown: Change file owner and group
- chgrp: Change group ownership of files

System information

- uname: Print system information
- df: disk space usage
- free: Display amount of free and memory
- hostname: set the system's hostname

File Permissions

- chmod: Change file permissions
- chown: Change file owner and group
- chgrp: Change group ownership of files

Process management

- ps: To display the currently working processes
- top: Display all running process
- kill: Terminate a process
- killall: Terminate processes by name

Shell Scripting

- bash: GNU Bourne-again shell
- shell: Original Unix shell
- awk: pattern scanning and processing language
- sed: Stream editor for filtering & transforming text

File Transfer

- scp: Secure Copy (remote file Copy Program)
- rsync: Remote file svnc

Networking

- ifconfig: Configure Networking interface
- ping: Test network Connectivity
- netstat: pront network connections, etc
- iptables: packet filtering and NAT

Package Management

- apt-get: Package handling utility (Debian-based)
- yum/dnf: Package handling utility(RPM-based)
- dpkg: Package manager for Debian-basedsystem
- rpm: Package manager for RPM-based systems

User and Group Management

- useradd: Create a new user
- usermod: modify a user account
- userdel: Delete a user account
- groupadd: Create a new group
- groupmod: Modify a group
- groupdel: Delete a group

System Services

- systemctl: Control the systemed system
- service: run a system v init script
- chkconfig: Updates and queries runlevel information for system services