



## System Management & Administration

## User & Group Management

<code>rpm -ql &lt;packagename&gt;</code>	Lists the files installed by a specific RPM package
<code>dpkg -L &lt;packagename&gt;</code>	Lists the files installed by a specific Debian package
<code>sosreport</code>	Gathers information about the system's configuration and status for troubleshooting purposes
<code>bcwipe</code>	Securely erases files or partitions
<code>chkconfig</code>	Controls the services that start automatically when a SysVinit system boots
<code>dstat</code>	Displays system resource usage statistics
<code>fdisk</code>	Enables users to view information regarding a disk's partition layout as well as create, modify, and delete disk partitions
<code>systemd</code>	Manages system services and processes
<code>systemctl</code>	Controls and manages systemd services and other system components
<code>systemctl halt</code>	Halts the Linux system
<code>systemctl poweroff</code>	Turns off the power of the system
<a href="#"><code>systemctl reboot</code></a>	Restarts the system
<code>systemctl suspend</code>	Suspends the Linux system
<code>systemctl hibernate</code>	Hibernates system
<code>systemctl hybrid-sleep</code>	Suspends and hibernates the system
<code>systemctl disable firewalld</code>	Disables the firewalld
<code>systemctl start firewalld</code>	Starts the firewalld
<code>strace</code>	Traces system calls and signals
<a href="#"><code>shutdown</code></a>	Shuts down or reboots a system
<a href="#"><code>service</code></a>	Calls the script to start, stop, and restart a daemon or service.

<a href="#"><code>alias</code></a>	Create an alias or shortcut for another command
<a href="#"><code>sudo</code></a>	Allows a user to run commands with the security privileges of another user
<a href="#"><code>useradd</code></a>	Creates a new system user account
<a href="#"><code>userdel</code></a>	Removes a user from the system
<a href="#"><code>usermod</code></a>	Modifies an existing user account on the system
<a href="#"><code>passwd</code></a>	Changes a user account's password
<code>vipw</code>	Edits the password file on the system
<code>vigr</code>	Changes the system's group file
<a href="#"><code>groupadd</code></a>	Creates a new group on the system
<code>groupdel</code>	Removes a group from the system
<a href="#"><code>groupmod</code></a>	Modifies an existing group on the system
<a href="#"><code>chage</code></a>	Changes a user account's password expiration and other account aging information
<a href="#"><code>who</code></a>	Displays users who are currently logged in

## Partitions & Disk Management

<code>fuser</code>	Identifies which processes are currently using a particular file, directory, or socket
<a href="#"><code>df</code></a>	Provides information about the amount of disk space used by the file system.
<a href="#"><code>mount</code></a>	Attaches a file system to a directory
<code>umount</code>	Detaches a mounted file system from its mount point
<a href="#"><code>du</code></a>	Displays disk usage statistics for a file or directory



## File & Directory Management

<code>lspci</code>	Lists information about all the PCI buses and devices in the system		
<code>lsusb</code>	Lists information about all the USB buses and devices in the system	<a href="#"><code>ls</code></a>	Displays a list of the files and directories in the current working directory
<code>last</code>	Shows a list of all the users who have logged in and out of the system, along with the time and date of their sessions	<code>ls -a</code>	Lists all files and directories in the current directory, including hidden files
<code>quota</code>	Displays and manages disk quotas for users and groups	<code>ls -aF</code>	List every file and directory in the current directory, including hidden files, and add a character to every entry to denote the type of the file or directory Lists in long format all files and directories in the current directory, including details such as permissions, owner, size, and modification time
<code>strace</code>	Traces system calls and signals	<code>ls -l</code>	Lists in long format all files and directories in the current directory, including details such as permissions, owner, size, and modification time
<code>xrandr</code>	Configurs display settings	<a href="#"><code>chmod</code></a>	Changes a file's permissions
<code>xwininfo</code>	Displays information about X windows	<a href="#"><code>chown</code></a>	Changes a file's ownership
<a href="#"><code>uname</code></a>	Displays system information such as the operating system name, version, and architecture	<a href="#"><code>cp</code></a>	Copies files and directories
<code>localectl status</code>	Displays locale settings	<a href="#"><code>mv</code></a>	Moves or renames files and directories
<code>localectl list-locales</code>	Lists all locales	<a href="#"><code>cd</code></a>	Changes the current working directory
<code>locale list-keymaps</code>	Lists keyboard mappings	<code>cd ..</code>	Moves one level up from the current directory
<code>timedatectl set-timezone time_zone</code>	Sets timezone	<code>cd ~</code>	Moves one level back from the current directory
<code>timedatectl set-time YYYY-MM-DD</code>	Sets date	<a href="#"><code>pwd</code></a>	Shows the current working directory
<code>timedatectl set-time HH:MM:SS</code>	Sets time	<code>ll</code>	Provides detailed information about the files and directories in the current working directory
<code>timedatectl set-ntp yes</code>	Enables ntp server	<a href="#"><code>find</code></a>	Searches for files and directories in a specified location
<code>hostnamectl status</code>	Views and modifies the system's hostname and related settings	<a href="#"><code>rm</code></a>	Deletes files and directories
<code>hostnamectl set-hostname &lt;hostname&gt;</code>	Changes hostnames	<a href="#"><code>ln</code></a>	Creates a hard or symbolic link between files
<code>hostnamectl set-hostname -H username@hostname</code>	Sets hostname remotely	<a href="#"><code>touch</code></a>	Creates an empty file or updates the access and modification times of an existing file
<code>lsblk</code>	Lists the block devices on the system	<a href="#"><code>less</code></a>	Displays a file's contents one page at a time



## Networking Commands

<a href="#"><i>nmap</i></a>	Scans for open ports and services on a network
<i>tcpdump</i>	Captures and displays network traffic in real-time
<a href="#"><i>ifconfig</i></a>	Displays and configures network interface information
<i>route</i>	Displays and configures the network routing table
<a href="#"><i>ip</i></a>	Displays and sets up network interfaces, addresses, and routes
<a href="#"><i>ping</i></a>	Sends packets to a remote host to check the network's connectivity
<a href="#"><i>hostname</i></a>	Displays or changes the hostname of the system
<i>ifup</i>	Brings up a network interface
<i>ifdown</i>	Brings a network interface down
<i>iftop</i>	Displays a list of network connections sorted by their bandwidth usage
<i>iptables</i>	Displays network traffic in real-time
<a href="#"><i>netstat</i></a>	Displays network connection information such as active connections and listening ports
<i>ss</i>	Similar to netstat, but offers more thorough information
<a href="#"><i>firewall-cmd</i></a>	Allows users to open or close ports, enable or disable services, and create custom rules for network traffic management
<i>iptraf</i>	Views various network statistics, such as network traffic by IP address, port activity, and protocol distribution

<a href="#"><i>head</i></a>	Displays the first ten lines of a file
<a href="#"><i>tail</i></a>	Displays the last ten lines of a file
<a href="#"><i>wc</i></a>	Counts the number of lines, words, and characters in a file
<i>stat</i>	Displays file information such as the owner, permissions, and timestamps
<a href="#"><i>cut</i></a>	Extracts specific columns or fields from a text file
<a href="#"><i>paste</i></a>	Combines lines from multiple files
<a href="#"><i>diff</i></a>	Compares two files and shows the differences between them
<a href="#"><i>mkdir</i></a>	Creates a new directory
<a href="#"><i>rmdir</i></a>	Removes an empty directory
<a href="#"><i>grep</i></a>	Searches text files for a given pattern
<a href="#"><i>unzip</i></a>	Unzips the archived files
<a href="#"><i>dd</i></a>	Copies a file, converting and formatting it according to the options specified
<a href="#"><i>fsck</i></a>	Checks and repairs filesystem integrity on unmounted filesystems.
<a href="#"><i>locate</i></a>	Uses a database to quickly locate files rather than searching the file system
<a href="#"><i>tar</i></a>	Archives and compresses files and directories

## Process Management

<i>ps</i>	Displays information about currently active processes
<i>pstree</i>	Displays a tree of currently running processes
<a href="#"><i>top</i></a>	Shows current system performance indicators and the processes utilizing the system's resources
<i>kill</i>	Sends a signal to a process to end it
<a href="#"><i>killall</i></a>	Terminates all processes with the specified name

## Package Management

<i>yum</i>	Enables users to install, update, and uninstall software packages and dependencies from local or remote repositories
<i>yum search &lt;package_name&gt;</i>	Searches for a package in the configured repositories



<code>yum install</code> <code>&lt;package_name&gt;</code>	Installs a package and its dependencies from the configured repositories	<code>pkill</code>	Sends signals to processes based on their name or other attributes
<code>yum help install</code>	Provides information on the options and syntax for the command	<code>pgrep</code>	Lists the process IDs (PIDs) of processes based on their name or other attributes
<code>yum update</code>	Updates all installed packages to their latest available version	<code>jobs</code>	Lists the currently active jobs in the shell
<code>yum check-update</code>	Checks for available package updates in the configured repositories	<code>init</code>	Starts a process control
<code>yum update --security</code>	Updates only the packages that have security updates available in the configured repositories	<h2>Help Commands</h2>	
<code>yum update &lt;package_name&gt;</code>	Updates a specific package and its dependencies to their latest available version		
<code>yum remove &lt;package_name&gt;</code>	Removes a package and its dependencies from the system	<code>whatis</code>	Displays a brief description of a command
<code>yum clean all</code>	Removes all cached packages from the system to free up disk space	<code>which</code>	Locates the binary executable file associated with a command
<code>yum list installed</code>	Lists all packages installed on the system	<code>whereis</code>	Locates the binary, source, and manual page files associated with a command
<code>yum list all</code>	Lists all packages available in the configured repositories, including installed and available packages	<code>apropos</code>	Searches a specified database file set, then output the results as standard output
<code>yum list updates</code>	Lists only the packages that have available updates	<code>man</code>	Shows the manual pages for a specific command
<code>yum list available</code>	Lists all packages available in the configured repositories that are not currently installed on the system	<h2>Miscellaneous</h2>	
<code>yum info &lt;package_name&gt;</code>	Displays detailed information about a package, including its description, version, and dependencies		
<code>yum deplist &lt;package_name&gt;</code>	Displays the dependencies of a package and their details	<code>lsmod</code>	Displays currently loaded kernel modules
<code>yum erase &lt;package_name&gt;</code>	Uninstalls a package and remove its dependencies that are no longer needed	<code>exit</code>	Exits a login terminal or session as a specific user
<code>yum autoremove</code>	Removes packages that were installed as dependencies but are no longer required	<code>clear</code>	Clears the terminal screen
<code>yum grouplist</code>	Lists all available package groups that can be installed or removed	<code>cal</code>	Displays a calendar for a specific month or year in the terminal



<code>yum repolist</code>	Displays a list of all configured repositories and their status, including the number of packages available	<a href="#"><u>cron</u></a>	Allows to schedule and automate recurring tasks on your system
<code>yum info &lt;package_name&gt;</code>	Displays detailed information about a package	<a href="#"><u>crontab</u></a>	Edits, creates, or views the cron jobs that are scheduled to run on a Linux system
<code>yum provides &lt;file_name&gt;</code>	Finds which package provides a specific file on the system	<a href="#"><u>date</u></a>	Displays or set the system date and time
<code>yum history</code>	Displays the system's yum transaction history	<a href="#"><u>neofetch</u></a>	Displays system information, such as the operating system, kernel version, CPU and GPU information, and more, in a visually appealing way
<code>yum groupinstall &lt;group_name&gt;</code>	Installs a group of packages	<a href="#"><u>tree</u></a>	Displays the directory structure of a file system in a tree-like format
<code>yum groupremove &lt;group_name&gt;</code>	Removes a group of packages	<a href="#"><u>at</u></a>	Schedules a one-time task to run at a specified time in the future
<code>yum check</code>	Checks the system for any issues with dependencies and missing files	<a href="#"><u>tee</u></a>	Redirects output from a command to a file and also display it on the terminal at the same time
<code>yum clean all</code>	Removes all cached package data from the system		