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| **System Management** | |
| *systemctl* | Manage system services |
| *journalctl* | Query and view system logs |
| *hostnamectl* | Set or view the hostname of the system |
| *timedatectl* | Set or view the system time and time zone |
| *hwclock* | Display or set the hardware clock |
| [***shutdown***](https://linuxsimply.com/shutdown-command-in-linux/) | Shut down or reboot the system |
| [***reboot***](https://linuxsimply.com/reboot-command-in-linux/) | Reboot the system |
| *lsblk* | Display information about block devices |
| *dmidecode* | Display information about the system's  hardware components |
| *hwinfo* | Display detailed information about the  system's hardware components |
| *lshw* | Display detailed information about the  system's hardware components |
| *lspcmcia* | Display information about PCMCIA devices |
| *lsdev* | Display information about all devices on  the system |
| *lsmod* | Display information about loaded kernel  modules |
| *modprobe* | Add or remove kernel modules |
| [***dmesg***](https://linuxsimply.com/dmesg-command-in-linux/) | Displays bootup messages |
| *systemd-*  *analyze* | Analyze and display system boot-up  performance |
| *systemd-*  *nspawn* | Create and manage containers |
| *docker* | Create and manage containers |
| *podman* | Alternative to docker that manages  containers and images |
| *sync* | Flush file system buffers to disk |
| [***uptime***](https://linuxsimply.com/uptime-command-in-linux/) | Display system uptime and load averages |
| *free* | Display information about system memory  usage |
| *chroot* | Change the root directory of a process |
| *cron* | Schedule periodic tasks |
| *at* | Schedule one-time tasks |

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| **Package Management** | |
| *pacman* | Install, remove, upgrade and manage  packages |
| *yay* | AUR helper used to install packages from  the Arch User Repository |
| *flatpak* | Install and manage applications in flatpak  format |
| *snap* | Install and manage applications in snap  format |
| *makepkg* | Create and manage Arch Linux packages |

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| **File Management** | |
| [***ls***](https://linuxsimply.com/ls-command-in-linux/) | Display list of files and directories |
| [***cd***](https://linuxsimply.com/cd-command-in-linux/) | Change the current working directory |
| [***rm***](https://linuxsimply.com/rm-command-in-linux/) | Remove files and directories |
| [***cp***](https://linuxsimply.com/cp-command-in-linux/) | Copy files and directories |
| [***mv***](https://linuxsimply.com/mv-command-in-linux/) | Move files and directories |
| [***nano***](https://linuxsimply.com/nano-command-in-linux/) | Simple text editor |
| *vi* | A more advanced text editor |
| [***chmod***](https://linuxsimply.com/chmod-command-in-linux/) | Change file permissions |
| [***chown***](https://linuxsimply.com/chown-command-in-linux/) | Change file ownerships |
| [***cat***](https://linuxsimply.com/cat-command-in-linux/) | Concatenate and display files |
| [***less***](https://linuxsimply.com/less-command-in-linux/) | Show files one page at a time |
| [***head***](https://linuxsimply.com/head-command-in-linux/) | By default display first ten lines of a file |
| [***tail***](https://linuxsimply.com/tail-command-in-linux/) | Display last lines of a file |
| [***wc***](https://linuxsimply.com/wc-command-in-linux/) | Counts number of lines, words and  characters in a file |
| [***sort***](https://linuxsimply.com/sort-command-in-linux/) | Sort lines of text |
| *uniq* | Remove duplicate lines of text |
| [***cut***](https://linuxsimply.com/cut-command-in-linux/) | Extract columns of text from a file |
| [***paste***](https://linuxsimply.com/paste-command-in-linux/) | Merge lines of text from different files |

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| **System Management** | |
| [***crontab***](https://linuxsimply.com/crontab-command-in-linux/) | Manage cron jobs for a user |
| *smartctl* | monitoring and controlling the SMART  attributes of hard drives and SSDs |
| [***history***](https://linuxsimply.com/history-command-in-linux/) | Display a list of previously executed  commands |
| *ltrace* | Trace library calls |
| *strace* | Trace and analyze system calls and signals  made by a process |
| *valgrind* | Debug and profile programs |
| *gdb* | Debug programs |
| *pidof* | Find the process ID of a running program |
| *pgrep* | Find the process ID of a running program  based on its name or other criteria |
| *pkill* | Send a signal to a running process based on  its name or other criteria |

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| **File Management** | |
| [***sed***](https://linuxsimply.com/sed-command-in-linux/) | Perform text transformations on a file |
| [***awk***](https://linuxsimply.com/awk-command-in-linux/) | Manipulate and analyze text data |
| *diff* | Compare two files and directories |
| *patch* | Apply changes to a file or directory |
| [***alias***](https://linuxsimply.com/alias-command-in-linux/) | Create custom command shortcut |
| [***which***](https://linuxsimply.com/which-command-in-linux/) | Display the location of a command |
| [***locate***](https://linuxsimply.com/locate-command-in-linux/) | Quickly find files and directories on the  system |
| *updatedb* | Update the locate database |
| [***lsof***](https://linuxsimply.com/lsof-command-in-linux/) | List open files and their associated  processes |
| [***ps***](https://linuxsimply.com/ps-command-in-linux/) | Display information about running  processes |
| [***kill***](https://linuxsimply.com/kill-command-in-linux/) | Send a signal to a process |
| *renice* | Change the priority of a process |
| *nice* | Start a process with specific priority |
| *dd* | Copy and convert data between files and  devices |
| *fdisk* | Create and manage disk partitions |
| [***mkfs***](https://linuxsimply.com/mkfs-command-in-linux/) | Create a file system on a disk partition |
| [***mount***](https://linuxsimply.com/mount-command-in-linux/) | Mount file systems |
| *umount* | Unmount file systems |
| *fsck* | Check and repair file systems |
| *blkid* | Display information about block devices |
| *hdparm* | Configure hard disk device parameters |
| *lspci* | Display information about PCI devices |
| *lsusb* | Display information about USB devices |
| [***tree***](https://linuxsimply.com/tree-command-in-linux/) | Displays directory structure in a tree  format |
| [***ln***](https://linuxsimply.com/ln-command-in-linux/) | Create links between files and directories |
| [***mkdir***](https://linuxsimply.com/mkdir-command-in-linux/) | Create directories |
| [***rmdir***](https://linuxsimply.com/rmdir-command-in-linux/) | Remove empty directories |

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| **Network Management** | |
| *ip* | Display and manage network |
| [***ping***](https://linuxsimply.com/ping-command-in-linux/) | Tests connectivity of a host |
| [***netstat***](https://linuxsimply.com/netstat-command-in-linux/) | Display information about network  connections, routing tables, and network interfaces |
| [***wget***](https://linuxsimply.com/wget-command-in-linux/) | Download files from the internet |
| *curl* | Transfer data from or to a server |
| [***ssh***](https://linuxsimply.com/ssh-command-in-linux/) | Establish a secure shell connection to a  remote server |
| [***scp***](https://linuxsimply.com/scp-command-in-linux/) | Securely copy files between servers |
| [***rsync***](https://linuxsimply.com/rsync-command-in-linux/) | Synchronize files and directories between  servers |
| *tcpdump* | Capture and analyze network traffic |
| *nmap* | Perform network exploration and security  auditing |
| *arp* | Display and modify the ARP table |
| *ss* | Display information about network  connections |
| *iwconfig* | Display and configure wireless network  interfaces |
| [***ifconfig***](https://linuxsimply.com/ifconfig-command-in-linux/) | Configure network interfaces |
| *route* | View and modify routing table |

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| **Network Management** | |
| [***traceroute***](https://linuxsimply.com/traceroute-command-in-linux/) | Traces the route of a host |
| [***dig***](https://linuxsimply.com/dig-command-in-linux/) | Retrieve DNS records of a domain |
| [***host***](https://linuxsimply.com/host-command-in-linux/) | Obtains information about a domain name  or IP address |
| [***iptables***](https://linuxsimply.com/iptables-command-in-linux/) | Configure Linux firewall |
| *ipset* | Manage ip sets |
| [***ssh-keygen***](https://linuxsimply.com/ssh-command-in-linux/) | Generate and manage SSH keys |
| [***ssh-copy-id***](https://linuxsimply.com/ssh-command-in-linux/) | Copy SSH keys to a remote server |
| *byobu* | Terminal multiplexer and session manager that includes additional features |
| *cifs-utils* | Mount and manage CIFS |
| *mtr* | Continuously monitors network  connections and their quality |
| *tig* | Text-based interface for Git that provides a  visual representation of Git branches, commit history, and changes |
| *nmon* | Display real-time system and hardware  statistics, including CPU usage, disk I/O, and network traffic |
| *hping3* | Packet crafting and testing tool that can  send various types of network packets |
| *arp-scan* | Discover hosts and network devices by sending ARP packets, and display their  MAC and IP addresses |
| *gparted* | A graphical partition editor that allows to create, resize, move, and copy disk  partitions |
| *sshfs* | Mount a remote file system over SSH protocol |
| *slurm* | A network load blancer and cluster  management tool |
| *jshon* | Parse, manipulate and analyze JSON data  in shell scripts |
| *xdg-open* | Open files or URLs with the default  application configured in the system |
| *ranger* | A file manager and directory browser that supports various features like previews, bookmarks, and plugin integration |
| *ddrescue* | copy data from one file or block device to  another |

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| **File Management** | |
| [***touch***](https://linuxsimply.com/touch-command-in-linux/) | Update the modification and access time of  a file or create a new empty file |
| *file* | Determine the type of file |
| *hexdump* | Display the contents of a file in  hexadecimal format |
| *md5sum* | Calculate the MD5 checksum of a file |
| *cpio* | Create and extract cpio archives |
| *sftp* | Transfer files securely over SSH |
| *sha256su* | Calculate the SHA-256 checksum of a file |
| [***find***](https://linuxsimply.com/find-command-in-linux/) | Search files and directories |
| [***df***](https://linuxsimply.com/df-command-in-linux/) | View Disk space usage |
| [***du***](https://linuxsimply.com/du-command-in-linux/) | Estimates file space usage |
| [***grep***](https://linuxsimply.com/grep-command-in-linux/) | Search for text within files |
| *ack* | Seach and process text files |
| *ripgrep* | Search and process text files |
| [***top***](https://linuxsimply.com/top-command-in-linux/) | Display real-time information about system resource usage |
| [***htop***](https://linuxsimply.com/htop-command-in-linux/) | An interactive process viewer and system monitor, similar to top but with more  features and customizability |
| [***screen***](https://linuxsimply.com/screen-command-in-linux/) | Run multiple shell sessions or programs within a single terminal window or across  multiple terminals |
| *fuser* | Identify which processes are using a  specific file or directory |
| *realpath* | Display the absolute path of a file or  directory |
| *truncate* | Shrink or extend the size of a file |
| *stat* | Display file or file system status |

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| **Network Management** | |
| *ytop* | Display real-time information about system  resourses |
| *vnstat* | Monitor network traffic and record and  display bandwidth usage of interfaces |
| *nc* | Establish and manage network connections |
| *iftop* | Monitor network traffic in real-time |
| *nethogs* | Shows bandwidth usage by process |

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| **User and Group Management** | |
| *tmux* | Manage multiple terminal sessions |
| *iotop* | Monitor input/output usage by processes  and storage devices |
| *w* | Display information about currently logged-  in users |
| *last* | Display information about previous logins |
| *glances* | System monitoring tool with a web  interface |
| *whois* | Query WHOIS databases |
| [***uname***](https://linuxsimply.com/uname-command-in-linux/) | Display information about the system's kernel and operating system version. |

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| **Miscellaneous** | |
| *youtube-dl* | Download videos and audio from various  sources |
| *newsboat* | Fetch and display news articles from  various sources |
| *pandoc* | Convert documents between various  markup and document formats |
| *mpd* | Plays audio files from a local or remote  directory |
| *sshuttle* | Tunnels all network traffic through an SSH  connection, and can bypass various network restrictions and firewalls |
| *feh* | Supports various image formats and can display them in a slideshow or as a  background wallpaper |
| *mutt* | A command-line email client |
| *pine* | command-line email client with a more  traditional interface |
| *elinks* | Web browser with more advanced  features than Lynx |
| *lynx* | A text-based web browser |
| *strings* | Extract human-readable strings from  binary files |
| *gpg* | Encrypt and decrypt files and messages  using public-key cryptography |
| *sqlite3* | Manage SQLite databases, and can create,  modify, and query tables |

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| **Compression and Archiving** | |
| [***zip***](https://linuxsimply.com/zip-command-in-linux/) | Create and manipulate ZIP archive files |
| [***tar***](https://linuxsimply.com/tar-command-in-linux/) | Archive and compress files |
| [***unzip***](https://linuxsimply.com/unzip-command-in-linux/) | Extract files from ZIP archives |
| [***bzip2***](https://linuxsimply.com/bzip2-command-in-linux/) | Compress and decompress files using the bzip2 algorithm |
| [***gzip***](https://linuxsimply.com/gzip-command-in-linux/) | Compress and decompress files using the  gzip algorithm |
| *xz* | Compress and decompress files using the  xz algorithm |
| *openssl* | Manage digital certificates and perform  encryption and decryption operations |
| *ncdu* | Analyze disk usage in a directory tree |
| *7z* | Extract files from 7z archives |
| *pv* | Monitor the progress of data transfer  between two processes |
| *fdupes* | Find and remove duplicate files in a  directory tree, and can compare files |
| *p7zip* | Compress and decompress files and directories in various archive formats,  including 7z, zip, tar, and gzip |
| *qpdf* | Manipulate and transform PDF files |

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