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| **File Management** |
| [scp](https://linuxsimply.com/scp-command-in-linux/) | Copies files between host over a network |
| [rsync -a](https://linuxsimply.com/rsync-command-in-linux/) | Synchronizes files and directories betweentwo different locations |
| [ls -al](https://linuxsimply.com/ls-command-in-linux/) | Displays list of all files and directoriesincluding hidden files |
| [ln](https://linuxsimply.com/ln-command-in-linux/) | Creates symbolic(symlink) links between filesand directories |
| [file](https://linuxsimply.com/file-command-in-linux/) | Identifies the type of a file |
| [rm -rf](https://linuxsimply.com/rm-command-in-linux/) | Recursively deletes all the files and sub-directories |
| [more](https://linuxsimply.com/more-command-in-linux/) | Views the content of a file on one screen at atime |
| [xargs](https://linuxsimply.com/xargs-command-in-linux/) | Builds and execute command lines fromstandard input |
| gpg -c | Symmetrically encrypts files |
| gpg -d | Symmetrically decrypts files |
| [cmp](https://linuxsimply.com/cmp-command-in-linux/) | Compares two files byte by byte |
| comm | Compares two sorted files line by line |
| [stat](https://linuxsimply.com/stat-command-in-linux/) | Displays file or file system status |
| [split](https://linuxsimply.com/split-command-in-linux/) | Splits a file into pieces |
| [cut](https://linuxsimply.com/cut-command-in-linux/) | Removes sections from each line of a file |
| [paste](https://linuxsimply.com/paste-command-in-linux/) | Merges lines of files |
| [install](https://linuxsimply.com/install-command-in-linux/) | Copies files and set attributes |
| [jed](https://linuxsimply.com/jed-command-in-linux/) | Simple text editor |
| [vi](https://linuxsimply.com/vi-command-in-linux/) | Visual text editor |
| [sed](https://linuxsimply.com/sed-command-in-linux/) | Stream editor for filtering and transformingtext |

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| **User Management** |
| last | Displays the list of previously logged in users |
| [adduser](https://linuxsimply.com/adduser-command-in-linux/) | Creates a new user on the system |
| [usermod](https://linuxsimply.com/usermod-command-in-linux/) | Modifies attributes of an existing user |
| deluser | Deletes an existing user from the system |
| delgroup | Deletes an existing group from the system |
| [groups](https://linuxsimply.com/groups-command-in-linux/) | Prints group membership of a user |

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| **Shell Built-ins** |
| [declare](https://linuxsimply.com/declare-command-in-linux/) | Declares variables and give them attributes |
| [enable](https://linuxsimply.com/enable-command-in-linux/) | Enables and disables shell built-ins |
| [exec](https://linuxsimply.com/exec-command-in-linux/) | Replaces the current shell with anothercommand |
| [jobs](https://linuxsimply.com/jobs-command-in-linux/) | Lists active jobs and their status |

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| **Disk Usage Commands** |
| [df -h](https://linuxsimply.com/df-command-in-linux/) | Displays free and used spaces on the file system |
| [df -i](https://linuxsimply.com/df-command-in-linux/) | Displays inode usage on the file system |
| fdisk -l | Lists available disk partition and their sizes |
| [du -sh](https://linuxsimply.com/du-command-in-linux/) | Shows total size and of a directory or file |
| findmnt | Shows list of currently mounted file systems |
| [mount](https://linuxsimply.com/mount-command-in-linux/) | Mounts a device to specific directory |
| umount | Unmounts a currently mounted file system |
| [tree](https://linuxsimply.com/tree-command-in-linux/) | Displays directory structure in a tree format |

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| **Install Packages** |
| rpm -e | Removes a package installed via RPM |
| rpm -i | Install a package via RPM |

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| **Hardware Based Commands** |
| [dmesg](https://linuxsimply.com/dmesg-command-in-linux/) | Displays bootup messages |
| Ishw | Lists hardware information of the system |
| Isblk | Lists information about available block devices |
| [free](https://linuxsimply.com/free-command-in-linux/) | Displays information about system’s memory |
| lspci | Displays list of all PCI bushes and devices |
| lsusb | Displays information about USB bushes anddevices |
| demidecode | Reports the system’s BIOS information |
| biosdecode | Displays system’s BIOS firmware information |

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| **System Commands** |
| [chage](https://linuxsimply.com/chage-command-in-linux/) | Changes user password expiry information |
| [fsck](https://linuxsimply.com/fsck-command-in-linux/) | File system consistency check and repair |
| [sestatus](https://linuxsimply.com/sestatus-command-in-linux/) | Shows SELinux status information |
| [iptables](https://linuxsimply.com/iptables-command-in-linux/) | Administration tool for IPv4 packet filteringand NAT |
| [service](https://linuxsimply.com/service-command-in-linux/) | Starts, stops and restarts services |

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| **Network Commands** |
| ip addr show | Displays information about networkinterfaces |
| ip address add | Adds a new IP address to a network interface |
| [ifconfig](https://linuxsimply.com/ifconfig-command-in-linux/) | Configures network interfaces with specificIP address |
| [ping host](https://linuxsimply.com/ping-command-in-linux/) | Tests connectivity to a host |
| whois | Retrieves information about a domain |
| [dig](https://linuxsimply.com/dig-command-in-linux/) | Retrieves DNS records of a domain |
|  [tracerout](https://linuxsimply.com/traceroute-command-in-linux/)e Traces the route of a host  |
| [ssh](https://linuxsimply.com/ssh-command-in-linux/) | Secures encrypted communication |
| [netstat -pnltu](https://linuxsimply.com/netstat-command-in-linux/) | Displays information of active TCP and UDPconnections |
| [host](https://linuxsimply.com/host-command-in-linux/) | Obtains information about a domain name or IP address |
|  [hostname -](https://linuxsimply.com/hostname-command-in-linux/)i Displays IP address of current hostname  |
| telnet | Establishes remote connection |
| [finger](https://linuxsimply.com/finger-command-in-linux/) | Displays user information |
| [ftp](https://linuxsimply.com/ftp-command-in-linux/) | File Transfer Protocol client |
|  [sft](https://linuxsimply.com/sftp-command-in-linux/)p  | Secures File Transfer Protocol client  |
| [nslookup](https://linuxsimply.com/nslookup-command-in-linux/) | Queries Internet name servers interactively |

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| **Miscellaneous** |
| [vmstat](https://linuxsimply.com/vmstat-command-in-linux/) | Reports virtual memory statistics |
| [alias](https://linuxsimply.com/alias-command-in-linux/) | Creates a shortcut for a longer command |
| [unalias](https://linuxsimply.com/unalias-command-in-linux/) | Removes previously created alias |
| [ufw](https://linuxsimply.com/ufw-command-in-linux/) | Manages firewall rules |
| [tr](https://linuxsimply.com/tr-command-in-linux/) | Translate or delete characters from a textstream |
| [tty](https://linuxsimply.com/tty-command-in-linux/) | Print the file name of the terminal connected tostandard input |
|  [tim](https://linuxsimply.com/time-command-in-linux/)e  | Measure execution time of a command  |
| printenv | Print values of all environment variables |
| [make](https://linuxsimply.com/make-command-in-linux/) | Builds executable programs and libraries fromsource code |
| [whereis](https://linuxsimply.com/whereis-command-in-linux/) | Locate binary, source and manual page of a command |
|  [whic](https://linuxsimply.com/which-command-in-linux/)h Returns the pathname of file  |
| unset | Removes value of an environment variable |
| [tee](https://linuxsimply.com/tee-command-in-linux/) | Read Standard Input and writes it both toStandard Output and other file |
| [awk](https://linuxsimply.com/awk-command-in-linux/) | Extracts and manipulates text data |
|  [cronta](https://linuxsimply.com/crontab-command-in-linux/)b  | Instructions for running scheduled job  |
| chroot | Changes the root directory for the currentprocess |
|  timedatectl  | Changes system clock and time-zone  |
| at | Schedule commands to run at a specific time |
|  [bas](https://linuxsimply.com/bash-command-in-linux/)h  | A shell command interpreter  |
| [egrep](https://linuxsimply.com/egrep-command-in-linux/) | Search files for lines matching a pattern usingextended regular expressions |
|  [en](https://linuxsimply.com/env-command-in-linux/)v  | Display and modify environment variables  |
| getend | Print the end of a file |
|  [lso](https://linuxsimply.com/lsof-command-in-linux/)f  | List open files and their associated processes  |
| [mkfs](https://linuxsimply.com/mkfs-command-in-linux/) | Create a file system on a device |

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| **Process Related Commands** |
|  pmap  | Reports the memory map of a process  |
| top | Shows real-time dynamic display of therunning processes |
|  [kill pi](https://linuxsimply.com/kill-command-in-linux/)d  | Terminates specific process  |
| pkill | Terminates one or more processes based on attributes |
|  bg  | Resumes a suspended job in the background  |

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| **Kernel and Module Information** |
|  [uname -](https://linuxsimply.com/uname-command-in-linux/)a  | Display kernel version  |
| ismod | Check currently loaded kernel module |
| modinfo | Display information of about a kernelmodule |
| modprobe --remove | Unload a kernel module from memory |

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|  hdparm -I /dev/sda  | Displays information about first hard drive  |
| hwinfo --short | Displays summary of hardware information |
|  wodim  | Burns CDs, DVDs and Blu-ray discs  |
| badblocks | Checks damaged or unreadable blocks in storage |
| x86info -a | Displays general information about CPU |

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| **Linux Cheat Sheet** |
| ***Advanced Commands*** |



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| fg | Brings a background job to the foreground |
| renice | Changes the priority of a running system |
| pgrep | Searches for a process by name |
| pstree | Shows system processes in a hierarchicaltree structure |

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| [neofetch](https://linuxsimply.com/neofetch-command-in-linux/) | Displays system information in the terminal |
| [uptime](https://linuxsimply.com/uptime-command-in-linux/) | Shows system uptime and load averages |
| [screen](https://linuxsimply.com/screen-command-in-linux/) | Terminal multiplexer with session management |
| [patch](https://linuxsimply.com/patch-command-in-linux/) | Apply changes to files using a diff file |
| batch | Scheduled jobs to run at a later time whensystem resources are available |
| strace | Trace system calls and signals of a program andits child processes |
| curl | Transfer data from or to a server using variety ofprotocols |
| rsyslog | Manages system logs and forwarding them toother systems |
| journalctl | View and manipulate logs from the system journal |
| source | Read and execute file content in the currentshell |
| let | Assign an integer value to a variable |
| uniq | Remove or identify duplicate lines of a file |
| set | List name of all shell variables and functions |

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| **File Compression** |
| [tar -cf](https://linuxsimply.com/tar-command-in-linux/) | Creates an archive file and compresses oneor more file into it |
| [tar -xf](https://linuxsimply.com/tar-command-in-linux/) | Extracts files and directories from a tar file |
| [tar -zcvf](https://linuxsimply.com/tar-command-in-linux/) | Creates an archive tar file and compresses one or more files while showing the progress |
| [gunzip](https://linuxsimply.com/gunzip-command-in-linux/) | Decompresses the compressed files |
| rar | Create, manage RAR archieve files |
| unrar | Extract files from RAR archives |
| 7z | Create, manage and extract files from 7zarchieves |

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