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| **System Administration** | | |
| **Linux** | **Windows** | **Description** |
| [*kill*](https://linuxsimply.com/kill-command-in-linux/) | *taskkill* | Terminates a process |
| [*mkdir*](https://linuxsimply.com/mkdir-command-in-linux/) | *mkdir* | Creates new directory |
| [*cp*](https://linuxsimply.com/cp-command-in-linux/) | *copy* | Copies files or directories |
| [*ps*](https://linuxsimply.com/ps-command-in-linux/) | *tasklist* | Displays information about active processes |
| [*echo*](https://linuxsimply.com/echo-command-in-linux/) | *echo* | Prints a message to the console |
| [*exit*](https://linuxsimply.com/exit-command-in-linux/) | *exit* | Exits or close the current command prompt or shell |
| [*free*](https://linuxsimply.com/free-command-in-linux/) | *mem* | Displays the amount of free and used memory on the |
| [*ls -R*](https://linuxsimply.com/ls-command-in-linux/) | *tree* | Lists directory recursively |
| [*du -s*](https://linuxsimply.com/ls-command-in-linux/) | *chdisk* | Disk usage of a particular file or directory |
| [*cron*](https://linuxsimply.com/cron-command-in-linux/) | *at* | Allows scheduling of commands or scripts to run at |
| *export var=value* | *set var=value* | Sets environment variables |
| [*rm -rf/rmdir*](https://linuxsimply.com/rm-command-in-linux/) | *rmdir* | Deletes files or directories |
| *Mke2fs or mformat* | *format* | Formats a file system on a storage device |
| [*cd*](https://linuxsimply.com/cd-command-in-linux/) | *cd* | Changes the current working directory |
| [*date*](https://linuxsimply.com/date-command-in-linux/) | *time* | Displays or sets the time and date on the system |
| [*pwd*](https://linuxsimply.com/pwd-command-in-linux/) | *chdir* | Displays the current working directory |
| *man command\_name* | *command\_name /?* | Displays help or manual pages of a specific command |
| [*grep*](https://linuxsimply.com/grep-command-in-linux/) | *find* | Searches for patterns in files |
| [*diff*](https://linuxsimply.com/diff-command-in-linux/) | *fc* | Compares two files |
| [*rm*](https://linuxsimply.com/rm-command-in-linux/) | *del* | Deletes files |
| [*clear*](https://linuxsimply.com/clear-command-in-linux/) | *cls* | Clears the command line interface screen |
| [*mv*](https://linuxsimply.com/mv-command-in-linux/) | *move* | Move files or directories |
| [*mv*](https://linuxsimply.com/mv-command-in-linux/) | *ren* | Rename files or directories |
| [*sort*](https://linuxsimply.com/sort-command-in-linux/) | *sort* | Sort lines in a file |
| [*rsync*](https://linuxsimply.com/rsync-command-in-linux/) | *robocopy* | Synchronize files between two location |
| [*scp*](https://linuxsimply.com/scp-command-in-linux/) | *pscp* | Transfer files securely over a network |
| [*history*](https://linuxsimply.com/history-command-in-linux/) | *doskey /history* | Displays a list of previously executed commands |
| [*sudo*](https://linuxsimply.com/sudo-command-in-linux/) | *runas* | Run command or script with elevated privileges |
| [*ln*](https://linuxsimply.com/ln-command-in-linux/) | *mklink* | Create links between files or directories |
| [*locate*](https://linuxsimply.com/locate-command-in-linux/) | *dir /s /b* | Search for files |
| *route* | *route* | Displays or modifies the network routing table |
| [*mount*](https://linuxsimply.com/mount-command-in-linux/) | *mountvol or diskpart* | Mount or unmount file systems |
| [*curl*](https://linuxsimply.com/curl-command-in-linux/) | *curl* | Transfer data from or to a server using various |
| *last* | *quser* | Displays a list of previous user logins |
| *nmap* | *namp* | Scan networks and detect open ports |
| *lsblk* | *diskpart* | Displays information about block devices |
| *unmount* | *mountvol /d* | Unmount file systems |
| [*service*](https://linuxsimply.com/service-command-in-linux/) | *sc* | Manages system services |
| [*uptime*](https://linuxsimply.com/uptime-command-in-linux/) | *systeminfo* | Displays system uptime and other system information |
| *iostat* | *diskperf* | Displays disk I/O statistics |
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| **System Administration** | | |
| **Linux** | **Windows** | **Description** |
| [*fsck*](https://linuxsimply.com/fsck-command-in-linux/) | *chkdsk* | Check and repair file system errors on a storage device |
| [*mkfs*](https://linuxsimply.com/mkfs-command-in-linux/) | *format* | Creates a file system on a storage device |
| *fuser* | *handle* | Displays information about processes that are using a |
| *pgrep* | *Tasklist /FI* | Displays information about processes that match a |
| [*stat*](https://linuxsimply.com/stat-command-in-linux/) | *stat* | Displays file or file system status information |
| *unset* | *setx /delete* | Deletes or unsets an environment variable |
| [*crontab*](https://linuxsimply.com/crontab-command-in-linux/) | *schtasks* | Schedule tasks or jobs to run at specified intervals |
| [*dd*](https://linuxsimply.com/dd-command-in-linux/) | *diskcopy* | Copies data between disks or files |
| [*tr*](https://linuxsimply.com/tr-command-in-linux/) | *tr* | Translate or replace characters in a file or stream |
| [*which*](https://linuxsimply.com/which-command-in-linux/) | *where* | Locate the executable file associated with a command |
| [*tee*](https://linuxsimply.com/tee-command-in-linux/) | *tee* | Redirect output to both a file and the screen |
| [*cut*](https://linuxsimply.com/cut-command-in-linux/) | *cut* | Extract sections of text from a file or stream |
| [*wc*](https://linuxsimply.com/wc-command-in-linux/) | *find /c* | Count lines, words, and characters in a file or stream |
| [*uniq*](https://linuxsimply.com/uniq-command-in-linux/) | *uniq* | Remove duplicate lines from a file or stream |
| [*free*](https://linuxsimply.com/free-command-in-linux/) | *systeminfo* | Displays information about system memory and |
| *nice* | *start /low* | Changes the priority level of a process |
| *watch* | *watch* | Repeatedly execute a command and show the output |
| *ss* | *netstat -an* | Displays network statistics |
| *renice* | *wmic process where* | Changes the priority level of a running process |
| *lsmod* | *driverquery* | Displays information about kernel modules |
| *lscpu* | *wmic cpu get* | Displays information about CPU |
| [*userdel*](https://linuxsimply.com/userdel-command-in-linux/) | *net user /delete* | Delete a user from the system |
| *lsusb* | *devmgmt.msc* | Displays USB device information |
| *lspci* | *devmgmt.msc* | Displays PCI device information |

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|  |  | **File Manipulation** |
| **Linux** | **Windows** | **Description** |
| [*touch*](https://linuxsimply.com/touch-command-in-linux/) | *copy con* | Creates an empty file or updates the timestamp of an |
| [*head*](https://linuxsimply.com/head-command-in-linux/) | *more* | Displays the first few lines of a file |
| [*nano*](https://linuxsimply.com/nano-command-in-linux/) | *edit* | Simple text editor |
| [*cat*](https://linuxsimply.com/cat-command-in-linux/) | *type* | Displays the contents of a file |

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|  |  | **Networking** |
| **Linux** | **Windows** | **Description** |
| [*ifconfig*](https://linuxsimply.com/ifconfig-command-in-linux/) | *ipconfig* | Displays the network interface configuration |
| [*hostnamectl*](https://linuxsimply.com/hostname-command-in-linux/) | *hostname* | Displays or modifies the system hostname |
| [*ssh*](https://linuxsimply.com/ssh-command-in-linux/) | *ssh* | Remotely access and manage a system |
| [*netstat*](https://linuxsimply.com/netstat-command-in-linux/) | *netstat* | Display network statistics and active connections |
| [*traceroute*](https://linuxsimply.com/traceroute-command-in-linux/) | *tracert* | Trace the route that packets take to reach a |
| [*nslookup*](https://linuxsimply.com/nslookup-command-in-linux/) | *nslookup* | Query DNS servers to obtain domain name or IP |



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|  |  | **Networking** |
| **Linux** | **Windows** | **Description** |
| [*ping*](https://linuxsimply.com/ping-command-in-linux/) | *ping* | Test network connectivity |
| [*tcpdump*](https://linuxsimply.com/tcpdump-command-in-linux/) | *Netsh Trace* | Capture and analyze network traffic |

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|  |  | **Permissions** |
| **Linux** | **Windows** | **Description** |
| [*chmod*](https://linuxsimply.com/chmod-command-in-linux/) | *attrib* | Changes file or directory permissions or attributes |
| [*chown*](https://linuxsimply.com/chown-command-in-linux/) | *takeown* | Changes ownership of a file or directory |

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|  |  | **Control System** |
| **Linux** | **Windows** | **Description** |
| *poweroff* | *shutdown -s* | Shut down the system |
| [*reboot*](https://linuxsimply.com/reboot-command-in-linux/) | *shutdown -r* | Restart the system |
| *halt* | *shutdown -s -t 0* | Shut down the system |

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|  |  | **File Compression** |
| **Linux** | **Windows** | **Description** |
| [*gunzip*](https://linuxsimply.com/gunzip-command-in-linux/) | *gunzip* | Decompresses or extracts files from a compressed |
| [*gzip*](https://linuxsimply.com/gzip-command-in-linux/) | *gzip* | Compresses or creates a compressed archive of files |
| [*tar*](https://linuxsimply.com/tar-command-in-linux/) | *tar* | Creates extract tar archives |

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| **User Management** | | |
| **Linux** | **Windows** | **Description** |
| [*groupmod*](https://linuxsimply.com/groupmod-command-in-linux/) | *net localgroup /domain* | Modifies a group |
| [*groupadd*](https://linuxsimply.com/groupadd-command-in-linux/) | *net localgroup* | Manages user groups |
| *chpasswd* | *net user* | Changes a user's password |
| [*whoami*](https://linuxsimply.com/whoami-command-in-linux/) | *whoami* | Displays the current user name |
| [*passwd*](https://linuxsimply.com/passwd-command-in-linux/) | *net user* | Manages user accounts and passwords |

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|  |  | **Text Editing** |
| **Linux** | **Windows** | **Description** |
| [*awk*](https://linuxsimply.com/awk-command-in-linux/) | *findstr* | Text processing and manipulation |
| [*sed*](https://linuxsimply.com/sed-command-in-linux/) | *sed* | Perform text transformations on files or streams |
| [*vim*](https://linuxsimply.com/vim-command-in-linux/) | *edit* | Edit text files in a command line interface |
| [*emacs*](https://linuxsimply.com/emacs-in-linux/) | *emacs* | Simple text editor |
| [*vi/vim*](https://linuxsimply.com/vim-command-in-linux/) | *vim* | Text editor |
| *gedit* | *notepad* | Opens a text editor |

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