

Linux command line: bash + utilities

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|---|--------------------------|----------------------------------------------------------|
| A | | |
| | & | Start a new process in the background |
| | alias | Create an alias • |
| | apropos | Search Help manual pages (man -k) |
| | apt | Search for and install software packages (Debian/Ubuntu) |
| | apt-get | Search for and install software packages (Debian/Ubuntu) |
| | aptitude | Search for and install software packages (Debian/Ubuntu) |
| | aspell | Spell Checker |
| | at | Schedule a command to run once at a particular time |
| | awk | Find and Replace text, database sort/validate/index |
| B | | |
| | basename | Strip directory and suffix from filenames |
| | base32 | Base32 encode/decode data and print to standard output |
| | base64 | Base64 encode/decode data and print to standard output |
| | bash | GNU Bourne-Again SHell |
| | bc | Arbitrary precision calculator language |
| | bg | Send to background |
| | bind | Set or display readline key and function bindings • |
| | break | Exit from a loop • |

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| | builtin | Run a shell builtin |
| | bzip2 | Compress or decompress named file(s) |
| C | | |
| | cal | Display a calendar |
| | caller | Return the context of any active subroutine call • |
| | case | Conditionally perform a command |
| | cat | Concatenate and print (display) the content of files |
| | cd | Change Directory |
| | cfdisk | Partition table manipulator for Linux |
| | chattr | Change file attributes on a Linux file system |
| | chgrp | Change group ownership |
| | chmod | Change access permissions |
| | chown | Change file owner and group |
| | chpasswd | Update passwords in batch mode |
| | chroot | Run a command with a different root directory |
| | chkconfig | System services (runlevel) |
| | cksum | Print CRC checksum and byte counts |
| | clear | Clear terminal screen |
| | cmp | Compare two files |
| | comm | Compare two sorted files line by line |
| | command | Run a command - ignoring shell functions • |
| | continue | Resume the next iteration of a loop • |
| | cp | Copy one or more files to another location |
| | cpio | Copy files to and from archives |
| | cron | Daemon to execute scheduled commands |

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| | crontab | Schedule a command to run at a later time |
| | csplit | Split a file into context-determined pieces |
| | curl | Transfer data from or to a server |
| | cut | Divide a file into several parts |
| D | | |
| | date | Display or change the date & time |
| | dc | Desk Calculator |
| | dd | Data Duplicator - convert and copy a file, write disk headers, boot records |
| | ddrescue | Data recovery tool |
| | declare | Declare variables and give them attributes • |
| | df | Display free disk space |
| | diff | Display the differences between two files |
| | diff3 | Show differences among three files |
| | dig | DNS lookup |
| | dir | Briefly list directory contents |
| | dircolors | Colour setup for 'ls' |
| | dirname | Convert a full pathname to just a path |
| | dirs | Display list of remembered directories |
| | dos2unix | Windows/MAC to UNIX text file format converter |
| | dmesg | Print kernel & driver messages |
| | dpkg | Package manager (Debian/Ubuntu). |
| | du | Estimate file space usage |
| E | | |
| | echo | Display message on screen • |
| | egrep | Search file(s) for lines that match an extended expression |

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| | eject | Eject removable media |
| | enable | Enable and disable builtin shell commands • |
| | env | Environment variables |
| | ethtool | Ethernet card settings |
| | eval | Evaluate several commands/arguments |
| | exec | Execute a command |
| | exit | Exit the shell |
| | expand | Convert tabs to spaces |
| | export | Set an environment variable |
| | expr | Evaluate expressions |
| F | | |
| | false | Do nothing, unsuccessfully |
| | fdformat | Low-level format a floppy disk |
| | fdisk | Partition table manipulator for Linux |
| | fg | Send job to foreground |
| | fgrep | Search file(s) for lines that match a fixed string |
| | file | Determine file type |
| | find | Search for files that meet a desired criteria |
| | fmt | Reformat paragraph text |
| | fold | Wrap text to fit a specified width |
| | for | Expand <i>words</i> , and execute <i>commands</i> |
| | format | Format disks or tapes |
| | free | Display memory usage |
| | fsck | File system consistency check and repair |
| | ftp | File Transfer Protocol |
| | function | Define Function Macros |

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| | fuser | Identify/kill the process that is accessing a file |
| G | | |
| | gawk | Find and Replace text within file(s) |
| | getopts | Parse positional parameters |
| | getfacl | Get file access control lists |
| | grep | Search file(s) for lines that match a given pattern |
| | groupadd | Add a user security group |
| | groupdel | Delete a group |
| | groupmod | Modify a group |
| | groups | Print group names a user is in |
| | gzip | Compress or decompress named file(s) |
| H | | |
| | hash | Remember the full pathname of a name argument |
| | head | Output the first part of file(s) |
| | help | Display help for a built-in command • |
| | history | Command History |
| | hostname | Print or set system name |
| | htop | Interactive process viewer |
| I | | |
| | iconv | Convert the character set of a file |
| | id | Print user and group id's |
| | if | Conditionally perform a command |
| | ifconfig | Configure a network interface |
| | ifdown | Stop a network interface |
| | ifup | Start a network interface up |
| | import | Capture an X server screen and save the image to file |

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| | install | Copy files and set attributes |
| | iostat | Report CPU and i/o statistics |
| | ip | Routing, devices and tunnels |
| J | | |
| | jobs | List active jobs • |
| | join | Join lines on a common field |
| K | | |
| | kill | Kill a process by specifying its PID |
| | killall | Kill processes by name |
| | klist | List cached Kerberos tickets |
| L | | |
| | less | Display output one screen at a time |
| | let | Perform arithmetic on shell variables • |
| | link | Create a link to a file |
| | ln | Create a symbolic link to a file |
| | local | Create a function variable • |
| | locate | Find files |
| | logname | Print current login name |
| | logout | Exit a login shell • |
| | look | Display lines beginning with a given string |
| | lpc | Line printer control program |
| | lpr | Print files |
| | lprint | Print a file |
| | lprintd | Delete a print job |
| | lprintq | List the print queue |
| | lprm | Remove jobs from the print queue |
| | lsattr | List file attributes on a Linux second extended file system |

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| | lsblk | List block devices |
| | ls | List information about file(s) |
| | lsof | List open files |
| | lspci | List all PCI devices |
| M | | |
| | make | Recompile a group of programs |
| | man | Help manual |
| | mapfile | Read lines from standard input into an indexed array variable • |
| | mkdir | Create new folder(s) |
| | mkfifo | Make FIFOs (named pipes) |
| | mkfile | Make a file |
| | mkisofs | Create a hybrid ISO9660/JOLIET/HFS filesystem |
| | mknod | Make block or character special files |
| | mktemp | Make a temporary file |
| | more | Display output one screen at a time |
| | most | Browse or page through a text file |
| | mount | Mount a file system |
| | mtools | Manipulate MS-DOS files |
| | mtr | Network diagnostics (traceroute/ping) |
| | mv | Move or rename files or directories |
| | mmv | Mass Move and rename (files) |
| N | | |
| | nc | Netcat, read and write data across networks |
| | netstat | Networking connections/stats |
| | nft | nftables for packet filtering and classification |
| | nice | Set the priority of a command or job |

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| | nl | Number lines and write files |
| | nohup | Run a command immune to hangups |
| | notify-send | Send desktop notifications |
| | nslookup | Query Internet name servers interactively |
| O | | |
| | open | Open a file in its default application |
| | op | Operator access |
| P | | |
| | passwd | Modify a user password |
| | paste | Merge lines of files |
| | pathchk | Check file name portability |
| | Perf | Performance analysis tools for Linux |
| | ping | Test a network connection |
| | pgrep | List processes by name |
| | pkill | Kill processes by name |
| | popd | Restore the previous value of the current directory |
| | pr | Prepare files for printing |
| | printcap | Printer capability database |
| | printenv | Print environment variables |
| | printf | Format and print data • |
| | ps | Process status |
| | pushd | Save and then change the current directory |
| | pv | Monitor the progress of data through a pipe |
| | pwd | Print Working Directory |
| Q | | |
| | quota | Display disk usage and limits |
| | quotacheck | Scan a file system for disk usage |

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| R | | |
| | ram | ram disk device |
| | rar | Archive files with compression |
| | rcp | Copy files between two machines |
| | read | Read a line from standard input • |
| | readarray | Read from stdin into an array variable • |
| | readonly | Mark variables/functions as readonly |
| | reboot | Reboot the system |
| | rename | Rename files |
| | renice | Alter priority of running processes |
| | remsync | Synchronize remote files via email |
| | return | Exit a shell function |
| | rev | Reverse lines of a file |
| | rm | Remove files |
| | rmdir | Remove folder(s) |
| | rsync | Remote file copy (Synchronize file trees) |
| S | | |
| | screen | Multiplex terminal, run remote shells via ssh |
| | scp | Secure copy (remote file copy) |
| | sdiff | Merge two files interactively |
| | sed | Stream Editor |
| | select | Accept user choices via keyboard input |
| | seq | Print numeric sequences |
| | set | Manipulate shell variables and functions |
| | setfacl | Set file access control lists. |
| | sftp | Secure File Transfer Program |

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| | sha256sum | Compute and check SHA256 (256-bit) checksums |
| | shift | Shift positional parameters |
| | shopt | Shell Options |
| | shuf | Generate random permutations |
| | shutdown | Shutdown or restart linux |
| | sleep | Delay for a specified time |
| | slocate | Find files |
| | sort | Sort text files |
| | source | Run commands from a file '!' • |
| | split | Split a file into fixed-size pieces |
| | ss | Socket Statistics |
| | ssh | Secure Shell client (remote login program) |
| | stat | Display file or file system status |
| | strace | Trace system calls and signals |
| | su | Substitute user identity |
| | sudo | Execute a command as another user |
| | sum | Print a checksum for a file |
| | suspend | Suspend execution of this shell • |
| | sync | Synchronize data on disk with memory |
| T | | |
| | tail | Output the last part of a file |
| | tar | Store, list or extract files in an archive |
| | tee | Redirect output to multiple files |
| | test | Evaluate a conditional expression |
| | time | Measure Program running time |
| | timeout | Run a command with a time limit |

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| | times | User and system times |
| | tmux | Terminal multiplexer |
| | touch | Change file timestamps |
| | top | List processes running on the system |
| | tput | Set terminal-dependent capabilities, color, position |
| | traceroute | Trace Route to Host |
| | trap | Execute a command when the shell receives a signal • |
| | tr | Translate, squeeze, and/or delete characters |
| | true | Do nothing, successfully |
| | tsort | Topological sort |
| | tty | Print filename of terminal on stdin |
| | type | Describe a command • |
| U | | |
| | ulimit | Limit user resources • |
| | umask | Users file creation mask |
| | umount | Unmount a device |
| | unalias | Remove an alias • |
| | uname | Print system information |
| | unexpand | Convert spaces to tabs |
| | uniq | Uniquify files |
| | units | Convert units from one scale to another |
| | unix2dos | UNIX to Windows or MAC text file format converter |
| | unrar | Extract files from a rar archive |
| | unset | Remove variable or function names |
| | unshar | Unpack shell archive scripts |
| | until | Execute commands (until error) |

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| | <code>uptime</code> | Show uptime |
| | <code>useradd</code> | Create new user account |
| | <code>userdel</code> | Delete a user account |
| | <code>usermod</code> | Modify user account |
| | <code>users</code> | List users currently logged in |
| | <code>uuencode</code> | Encode a binary file |
| | <code>uudecode</code> | Decode a file created by uuencode |
| V | | |
| | <code>v</code> | Verbosely list directory contents ('ls -l -b') |
| | <code>vdir</code> | Verbosely list directory contents ('ls -l -b') |
| | <code>vi</code> | Text Editor |
| | <code>vmstat</code> | Report virtual memory statistics |
| W | | |
| | <code>w</code> | Show who is logged on and what they are doing |
| | <code>wait</code> | Wait for a process to complete • |
| | <code>watch</code> | Execute/display a program periodically |
| | <code>wc</code> | Print byte, word, and line counts |
| | <code>whereis</code> | Search the user's \$path, man pages and source files for a program |
| | <code>which</code> | Search the user's \$path for a program file |
| | <code>while</code> | Execute commands |
| | <code>who</code> | Print all usernames currently logged in |
| | <code>whoami</code> | Print the current user id and name ('id -un') |
| | <code>wget</code> | Retrieve web pages or files via HTTP, HTTPS or FTP |
| | <code>write</code> | Send a message to another user |
| X | | |

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| | xargs | Execute utility, passing constructed argument list(s) |
| | xdg-open | Open a file or URL in the user's preferred application. |
| | xxd | Make a hexdump or do the reverse |
| | xz | Compress or decompress .xz and .lzma files |
| | yes | Print a string until interrupted |
| | zip | Package and compress (archive) files |
| | . | Run a command script in the current shell |
| | !! | Run the last command again |
| | ### | Comment / Remark |

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Revision #2

Created 2023-02-19 07:30:51 UTC by Danicus

Updated 2023-02-19 07:48:40 UTC by Danicus