

An A-Z Index of the Linux command line: **bash + utilities.**

A

<u>&</u>	Start a new process in the background
<u>alias</u>	Create an alias •
<u>apropos</u>	Search Help manual pages (man -k)
<u>apt</u>	Search for and install software packages (Debian/Ubuntu)
<u>apt-get</u>	Search for and install software packages (Debian/Ubuntu)
<u>aptitude</u>	Search for and install software packages (Debian/Ubuntu)
<u>aspell</u>	Spell Checker
<u>at</u>	Schedule a command to run once at a particular time
<u>awk</u>	Find and Replace text, database sort/validate/index

B

<u>basename</u>	Strip directory and suffix from filenames
<u>base32</u>	Base32 encode/decode data and print to standard output
<u>base64</u>	Base64 encode/decode data and print to standard output
<u>bash</u>	GNU Bourne-Again SHell
<u>bc</u>	Arbitrary precision calculator language
<u>bg</u>	Send to background
<u>bind</u>	Set or display readline key and function bindings •
<u>break</u>	Exit from a loop •
<u>builtin</u>	Run a shell builtin
<u>bzip2</u>	Compress or decompress named file(s)

C

<u>cal</u>	Display a calendar
<u>caller</u>	Return the context of any active subroutine call •
<u>case</u>	Conditionally perform a command
<u>cat</u>	Concatenate and print (display) the content of files
<u>cd</u>	Change Directory
<u>cfdisk</u>	Partition table manipulator for Linux
<u>chattr</u>	Change file attributes on a Linux file system
<u>chgrp</u>	Change group ownership
<u>chmod</u>	Change access permissions
<u>chown</u>	Change file owner and group
<u>chpasswd</u>	Update passwords in batch mode
<u>chroot</u>	Run a command with a different root directory
<u>chkconfig</u>	System services (runlevel)

<u>cksum</u>	Print CRC checksum and byte counts
<u>clear</u>	Clear terminal screen
<u>cmp</u>	Compare two files
<u>comm</u>	Compare two sorted files line by line
<u>command</u>	Run a command - ignoring shell functions •
<u>continue</u>	Resume the next iteration of a loop •
<u>cp</u>	Copy one or more files to another location
<u>cpio</u>	Copy files to and from archives
<u>cron</u>	Daemon to execute scheduled commands
<u>crontab</u>	Schedule a command to run at a later time
<u>csplit</u>	Split a file into context-determined pieces
<u>curl</u>	Transfer data from or to a server
<u>cut</u>	Divide a file into several parts

D

<u>date</u>	Display or change the date & time
<u>dc</u>	Desk Calculator
<u>dd</u>	Data Duplicator - convert and copy a file, write disk headers, boot records
<u>ddrescue</u>	Data recovery tool
<u>declare</u>	Declare variables and give them attributes •
<u>df</u>	Display free disk space
<u>diff</u>	Display the differences between two files
<u>diff3</u>	Show differences among three files
<u>dig</u>	DNS lookup
<u>dir</u>	Briefly list directory contents
<u>dircolors</u>	Colour setup for 'ls'
<u>dirname</u>	Convert a full pathname to just a path
<u>dirs</u>	Display list of remembered directories
<u>dos2unix</u>	Windows/MAC to UNIX text file format converter
<u>dmesg</u>	Print kernel & driver messages
<u>dpkg</u>	Package manager (Debian/Ubuntu).
<u>du</u>	Estimate file space usage

E

<u>echo</u>	Display message on screen •
<u>egrep</u>	Search file(s) for lines that match an extended expression
<u>eject</u>	Eject removable media
<u>enable</u>	Enable and disable builtin shell commands •
<u>env</u>	Environment variables
<u>ethtool</u>	Ethernet card settings
<u>eval</u>	Evaluate several commands/arguments
<u>exec</u>	Execute a command
<u>exit</u>	Exit the shell

<u>expect</u>	Automate arbitrary applications accessed over a terminal
<u>expand</u>	Convert tabs to spaces
<u>export</u>	Set an environment variable
<u>expr</u>	Evaluate expressions

F

<u>false</u>	Do nothing, unsuccessfully
<u>fdformat</u>	Low-level format a floppy disk
<u>fdisk</u>	Partition table manipulator for Linux
<u>fg</u>	Send job to foreground
<u>fgrep</u>	Search file(s) for lines that match a fixed string
<u>file</u>	Determine file type
<u>find</u>	Search for files that meet a desired criteria
<u>fmt</u>	Reformat paragraph text
<u>fold</u>	Wrap text to fit a specified width
<u>for</u>	Expand <i>words</i> , and execute <i>commands</i>
<u>format</u>	Format disks or tapes
<u>free</u>	Display memory usage
<u>fsck</u>	File system consistency check and repair
<u>ftp</u>	File Transfer Protocol
<u>function</u>	Define Function Macros
<u>fuser</u>	Identify/kill the process that is accessing a file

G

<u>gawk</u>	Find and Replace text within file(s)
<u>getopts</u>	Parse positional parameters
<u>grep</u>	Search file(s) for lines that match a given pattern
<u>groupadd</u>	Add a user security group
<u>groupdel</u>	Delete a group
<u>groupmod</u>	Modify a group
<u>groups</u>	Print group names a user is in
<u>gzip</u>	Compress or decompress named file(s)

H

<u>hash</u>	Remember the full pathname of a name argument
<u>head</u>	Output the first part of file(s)
<u>help</u>	Display help for a built-in command •
<u>history</u>	Command History
<u>hostname</u>	Print or set system name
<u>htop</u>	Interactive process viewer

I

<u>iconv</u>	Convert the character set of a file
<u>id</u>	Print user and group id's
<u>if</u>	Conditionally perform a command

<u>ifconfig</u>	Configure a network interface
<u>ifdown</u>	Stop a network interface
<u>ifup</u>	Start a network interface up
<u>import</u>	Capture an X server screen and save the image to file
<u>install</u>	Copy files and set attributes
<u>iostat</u>	Report CPU and i/o statistics
<u>ip</u>	Routing, devices and tunnels

J

<u>jobs</u>	List active jobs •
<u>join</u>	Join lines on a common field

K

<u>kill</u>	Kill a process by specifying its PID
<u>killall</u>	Kill processes by name

L

<u>less</u>	Display output one screen at a time
<u>let</u>	Perform arithmetic on shell variables •
<u>link</u>	Create a link to a file
<u>ln</u>	Create a symbolic link to a file
<u>local</u>	Create a function variable •
<u>locate</u>	Find files
<u>logname</u>	Print current login name
<u>logout</u>	Exit a login shell •
<u>look</u>	Display lines beginning with a given string
<u>lpc</u>	Line printer control program
<u>lpr</u>	Off line print
<u>lprint</u>	Print a file
<u>lprintd</u>	Delete a print job
<u>lprintq</u>	List the print queue
<u>lprm</u>	Remove jobs from the print queue
<u>lsattr</u>	List file attributes on a Linux second extended file system
<u>lsblk</u>	List block devices
<u>ls</u>	List information about file(s)
<u>lsuf</u>	List open files
<u>lspci</u>	List all PCI devices

M

<u>make</u>	Recompile a group of programs
<u>man</u>	Help manual
<u>mapfile</u>	Read lines from standard input into an indexed array variable •
<u>mkdir</u>	Create new folder(s)
<u>mkfifo</u>	Make FIFOs (named pipes)
<u>mkfile</u>	Make a file

<code>mkisofs</code>	Create a hybrid ISO9660/JOLIET/HFS filesystem
<code>mknod</code>	Make block or character special files
<code>mktemp</code>	Make a temporary file
<code>more</code>	Display output one screen at a time
<code>most</code>	Browse or page through a text file
<code>mount</code>	Mount a file system
<code>mtools</code>	Manipulate MS-DOS files
<code>mtr</code>	Network diagnostics (traceroute/ping)
<code>mv</code>	Move or rename files or directories
<code>mmv</code>	Mass Move and rename (files)

N

<code>nc</code>	Netcat, read and write data across networks
<code>netstat</code>	Networking connections/stats
<code>nft</code>	nftables for packet filtering and classification
<code>nice</code>	Set the priority of a command or job
<code>nl</code>	Number lines and write files
<code>nohup</code>	Run a command immune to hangups
<code>notify-send</code>	Send desktop notifications
<code>nslookup</code>	Query Internet name servers interactively

O

<code>open</code>	Open a file in its default application
<code>op</code>	Operator access

P

<code>passwd</code>	Modify a user password
<code>paste</code>	Merge lines of files
<code>pathchk</code>	Check file name portability
<code>Perf</code>	Performance analysis tools for Linux
<code>ping</code>	Test a network connection
<code>pgrep</code>	List processes by name
<code>pkill</code>	Kill processes by name
<code>popd</code>	Restore the previous value of the current directory
<code>pr</code>	Prepare files for printing
<code>printcap</code>	Printer capability database
<code>printenv</code>	Print environment variables
<code>printf</code>	Format and print data •
<code>ps</code>	Process status
<code>pushd</code>	Save and then change the current directory
<code>pvc</code>	Monitor the progress of data through a pipe
<code>pwd</code>	Print Working Directory

Q

<code>quota</code>	Display disk usage and limits
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[quotacheck](#) Scan a file system for disk usage

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
[sftp](#) Secure File Transfer Program
[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

<u>sum</u>	Print a checksum for a file
<u>suspend</u>	Suspend execution of this shell •
<u>sync</u>	Synchronize data on disk with memory

T

<u>tail</u>	Output the last part of a file
<u>tar</u>	Store, list or extract files in an archive
<u>tee</u>	Redirect output to multiple files
<u>test</u>	Evaluate a conditional expression
<u>time</u>	Measure Program running time
<u>timeout</u>	Run a command with a time limit
<u>times</u>	User and system times
<u>tmux</u>	Terminal multiplexer
<u>touch</u>	Change file timestamps
<u>top</u>	List processes running on the system
<u>tput</u>	Set terminal-dependent capabilities, color, position
<u>traceroute</u>	Trace Route to Host
<u>trap</u>	Execute a command when the shell receives a signal •
<u>tr</u>	Translate, squeeze, and/or delete characters
<u>true</u>	Do nothing, successfully
<u>tsort</u>	Topological sort
<u>tty</u>	Print filename of terminal on stdin
<u>type</u>	Describe a command •

U

<u>ulimit</u>	Limit user resources •
<u>umask</u>	Users file creation mask
<u>umount</u>	Unmount a device
<u>unalias</u>	Remove an alias •
<u>uname</u>	Print system information
<u>unexpand</u>	Convert spaces to tabs
<u>uniq</u>	Uniquify files
<u>units</u>	Convert units from one scale to another
<u>unix2dos</u>	UNIX to Windows or MAC text file format converter
<u>unrar</u>	Extract files from a rar archive
<u>unset</u>	Remove variable or function names
<u>unshar</u>	Unpack shell archive scripts
<u>until</u>	Execute commands (until error)
<u>uptime</u>	Show uptime
<u>useradd</u>	Create new user account
<u>userdel</u>	Delete a user account
<u>usermod</u>	Modify user account
<u>users</u>	List users currently logged in

[uuencode](#) Encode a binary file
[uudecode](#) Decode a file created by uuencode

V

[v](#) Verbosely list directory contents ('ls -l -b')
[vdir](#) Verbosely list directory contents ('ls -l -b')
[vi](#) Text Editor
[vmstat](#) Report virtual memory statistics

W

[w](#) Show who is logged on and what they are doing
[wait](#) Wait for a process to complete •
[watch](#) Execute/display a program periodically
[wc](#) Print byte, word, and line counts
[whereis](#) Search the user's \$path, man pages and source files for a program
[which](#) Search the user's \$path for a program file
[while](#) Execute commands
[who](#) Print all usernames currently logged in
[whoami](#) Print the current user id and name ('id -un')
[wget](#) Retrieve web pages or files via HTTP, HTTPS or FTP
[write](#) Send a message to another user

X

[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](#)