

# Linux command line: bash + utilities

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

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

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

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

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

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

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

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



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

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

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

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

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

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