

Ubuntu Commands



	System Information		Shell Built-in Commands
<u>free</u>	Displays the amount of free and used memory in the system	<u>export</u>	Sets environment variables that are used by processes started by the shell that exported the variable
<u>ps</u>	Displays a snapshot of the current processes	<u>echo</u>	Displays text on the screen or redirects it to a file or variable
ps aux	Displays detailed information about all processes currently running	<u>alias</u>	Creates a shortcut or alternate name for a command
<u>uptime</u>	Displays the current uptime of the system	<u>unalias</u>	Removes an alias previously created with the "alias" command.
w	Displays the list of currently logged-in users	<u>exit</u>	Closes the current shell or terminal session
<u>uname</u>	Displays system information	<u>clear</u>	Clears the terminal screen
uname -a	Displays detailed system information	<u>bash</u>	Enables users to interact with Linux Operating System
<u>hostname</u>	Displays the name of the current host	<u>declare</u>	Declares variables and specifies their attributes, such as their data type or scope
info	Provides access to the documentation of various installed software packages	<u>source</u>	Executes a script in the current shell environment rather than creating a new subshell to run the script
lshw	Lists hardware configuration of the system		System Monitoring
<u>history</u>	Displays a list of previously executed commands	<u>top</u>	Displays information about the active processes running on the system
help	Displays information about built-in shell commands	<u>htop</u>	Shows a list of all the running processes throughout the system
man	Displays the manual page for a specified command	<u>vmstat</u>	Shows detailed information about system performance, including memory usage, CPU utilization, and Input/Output (I/O) statistics
<u>tty</u>	Reports the file name of the terminal device that is currently used to interact with the shell	<u>free</u>	Displays the total amount of free and used memory in the system, as well as the buffers and cached memory used by the kernel
S	System Administration	<u>ps</u>	Displays information about the active processes on the system, including their process ID (PID), CPU usage, memory usage, and other details
<u>sudo</u>	Allows users to run programs with the security privileges of another user, typically the root user	<u>uptime</u>	Displays how long the system has been running and the current system load averages
sudo -s	Starts a shell with root privileges	<u>time</u>	Measures the execution time of a command or script
sudo -s -u - user	Starts a shell with the privileges of the specified user	<u>dmesq</u>	Displays the kernel ring buffer messages, which include system boot messages and other kernel-related messages
sudo -k	Invalidates the user's cached credentials		
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sudo visudo	Opens the sudoers file for editing	<u>finger</u>	Displays information about a user, including their login name, full name, home directory, login shell, and the time they last logged in
sudo -H nautilus	Opens the file browser with root privileges	File Ma	nagement and Manipulation
sudo /etc/init.d/g dm restart	Restarts the GDM (GNOME Display Manager) service	<u>ls</u>	Lists files in a directory
sudo /etc/init.d/k dm restart	Restarts the KDM (KDE Display Manager) service	ls -al	Lists all files in a directory, including hidden files, with detailed information
<u>passwd</u>	Allows users to change their password	ls -R	Lists files in a directory and all of its subdirectories
<u>shutdown</u>	Shuts down the system in a safe way	ls -a	Lists all files in a directory, including hidden files
<u>sync</u>	Forces all file system changes to be written to disk	<u>touch</u>	Modifies timestamps of a file or creates an empty file if it doesn't exist
<u>reboot</u>	Reboots the system	<u>diff</u>	Compares two files line by line and shows the differences between them
<u>install</u>	Installs one or more packages on a Linux system using a package manager	Co	mpression and Archiving
<u>setstatus</u>	Displays the status of the SELinux security system	<u>zip</u>	Archives files and directories into a compressed zip archive format
<u>service</u>	Controls system services, such as starting, stopping, and restarting them	<u>unzip</u>	Extract the contents of a zip archive file
<u>getent</u>	Retrieves entries from databases	<u>bzip2</u>	Compresses files using the Burrows-Wheeler block sorting text compression algorithm and Huffman coding
<u>env</u>	Displays the current environment variables or sets a new environment variable	<u>gzip</u>	Compresses files using the Lempel-Ziv algorithm and Huffman coding
<u>jobs</u>	Displays a list of jobs running in the background of a shell	<u>gunzip</u>	Decompresses files that have been compressed using gzip
Ре	rmission Management	<u>tar</u>	Creates and manipulates archive files
<u>chmod</u>	Changes the permissions of file and determines who can read, write, or execute a file		Package Management
<u>chown</u>	Changes the owner and/or group of a file or directory	<u>apt-get</u> update	Updates the list of available packages
File a	nd Directory Management	apt-get upgrade	Upgrades all installed packages to their latest version
<u>mkdir</u>	Creates a new directory	apt-get dist- upgrade	Upgrades all installed packages to their latest version
<u>pwd</u>	Prints the current working directory	apt-get install pkg	Installs a package
<u>cd</u>	Changes the current working directory to a specified directory	apt-get purge pkg	Completely removes a package, including its configuration files
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ср

file

тv

ip

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Changes the current working directory to the apt-get -f Attempts to fix any broken dependencies and cd .. parent directory of the current directory install install missing packages Applies a patch file to an original file, making patch dpkg -l Lists all installed packages the changes specified in the patch file dpkg - -Configures all packages that have been rm [file] Removes a file configure -a unpacked but not yet configured dpkg -i Removes a directory and its contents rm -r [dir] Installs a package from a .deb file pkg.deb rm -f [file] Forces the removal of a file snap Installs and manage applications on systems Forces the removal of a directory and its Removes any packages that were installed as apt-get rm -rf [dir] contents autoremove dependencies and are no longer needed Compares two files byte-by-byte and reports **Disk Management** the first byte and line that differs between <u>cmp</u> them Compares two sorted files line by line and Displays the disk usage statistics for the file displays the lines that are common or unique df сотт system to each file Searches for files in a database that contains Displays the disk usage statistics for the file df -h <u>locate</u> a cached record of all files on the system system in human-readable format Displays detailed information about a file, including its size, permissions, owner, and Estimates the file space usage stat du modification time Allows users to create, delete, and modify fdisk partitions on hard drives, flash drives, and other Copies files or directories storage devices Securely deletes files by overwriting them Lists all open files and the processes that lsof shred opened them multiple times with random data Changes the group ownership of files and Copies and converts data between files, dd <u>chgrp</u> directories partitions, and devices at the block level Determines the type of a file by examining its Mounts a file system, making it accessible at a mount specified mount point in the directory tree contents Creates a new file system on a specified device Checks and repairs a file system for errors and supports various file system types such as fsck mkfs ext2, ext3, ext4, NTFS, and FAT32 Creates a new ext2/ext3/ext4 file system on a Moves or renames files or directories mke2fs specified device **Network Management Text Processing** Displays and manipulates network interfaces Counts the number of lines, words, and <u>WC</u> and routing tables characters in a text file Sorts the lines of a text file in alphabetical or Sends a packet to a host and measures the ping sort response time numerical order Remotely logs into a server or other device nano Allows users to create and edit text files ssh over a network

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<u>scp</u>	Transfers files between hosts on a network	<u>jed</u>
	User Management	<u>vi</u>
<u>useradd</u>	Creates a new user account, including setting up a home directory and assigning a password	<u>paste</u>
<u>adduser</u>	Creates a new user account interactively or using command-line options	<u>egrep</u>
<u>who</u>	Displays information about the users who are currently logged in	<u>cut</u>
<u>whoami</u>	Displays the current username of the user who is logged in	<u>whereis</u>
<u>id</u>	Dissplays the user and group IDs of a specified user or the current user	<u>whatis</u>
<u>usermod</u>	Modifies a user account, such as changing the user's login name, password, home directory, or group membership	<u>which</u>
<u>users</u>	Displays a list of usernames of users who are currently logged in	<u>at</u>
<u>su</u>	Switches the current user to another user account, usually with elevated privileges, by prompting for the target user's password	<u>tee</u>
<u>chage</u>	Modifies the password expiry information for a user	<u>date</u>
<u>userdel</u>	Deletes a user account and all associated files and directories	<u>vim</u>
<u>addgroup</u>	Creates a new user group	<u>split</u>
<u>groupadd</u>	Creates a new user group	<u>sed</u>
<u>groupmod</u>	Modifies the properties of an existing user group	<u>tr</u>
Netwo	rk Configuration & Firewall Management	<u>uniq</u>
<u>wget</u>	Downloads files from the internet	<u>cat</u>
<u>ifconfig</u>	Shows network interface configuration	<u>head</u>
iwconfig	Shows wireless network interface configuration	<u>tail</u>

Opens up a powerful text editor that supports multiple modes and macros Opens up a powerful text editor that uses modal editing to allow for quick and efficient editing
Merges lines from multiple files and writes them to the standard output
Searches a text file for lines that match a specified pattern using extended regular expressions
Extracts specific columns or fields from a text file
Locates the binary, source, and manual page files for a command
Displays a brief description of a command
Displays the location of a command or script in the system's PATH
Schedules a one-time command or script to run at a specified time
Redirects the output of a command to a file and to the screen
Displays the current date and time
Opens up a more advanced version of the vi editor with additional features such as syntax highlighting and plugins
Splits a text file into smaller files based on the number of lines or bytes
A stream editor that performs editing operations on a text stream or file
Translates or deletes characters in a text stream or file
Filters out duplicate lines from a sorted text file
Displays the contents of a file on the terminal
Displays the contents of a file on the terminal Displays the first ten lines of a file on the terminal

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sudo iwlist scan	Scans for available wireless networks	<u>grep</u>	Searches for a specific pattern or text in a file or output
sudo systemctl restart networking.s ervice	Restarts the networking service	<u>less</u>	Displays the contents of a file one page at a time, allowing scrolling back and forth
ifup interface	Brings up a network interface	<u>more</u>	Display the contents of a text file one screen at a time allowing user to scroll up and down through the file, search for specific text, and navigate to specific lines
ifdown interface	Brings down a network interface		Miscellaneous
firewall -cmd ufw enable ufw disable	Allows users to configure and manage the firewall settings Enables the firewall Disables the firewall	lsblk	Lists information about all available or specified block devices and can also display the relationship between the different devices, such as partitions and logical volumes
ufw default allow	Sets the default policy to allow traffic	<u>enable</u>	Enables or disables a service at startup or a specific hardware device or driver
ufw default deny	Sets the default policy to deny traffic	<u>bc</u>	Command-line calculator that allows for floating-point arithmetic and advanced mathematical functions
ufw status	Shows the status of the firewall	<u>cron</u>	Automates tasks to run at specified times or intervals
ufw allow port	Opens a port	<u>crontab</u>	Schedules periodic commands or scripts to run at specified intervals
ufw deny port	Closes a port	<u>ncal</u>	Displays a calendar for a given month or year
, ufw deny from ip	Blocks traffic from a specific IP address	<u>neofetch</u>	Displays system information and an ASCII art logo of the operating system
		<u>tree</u>	Displays a directory tree structure in a hierarchical format

	hierarchical format	
	buntu Terminal Shortcuts	
Obuntu Terminal Shortcuts		
CTRL+ALT+T	Opens terminal in Ubuntu	
CTRL+A	Places the cursor at the start of the active line	
CTRL+E	Places the cursor at the end of the active line.	
CTRL+U	Removes the entire active line	
CTRL+K	Removes the command from the cursor to the right	
CTRL+W	Removes the word preceding the cursor	
CTRL+R	Performs a history search for commands that match the user's input	
CTRL+C	Stop the active process	
CTRL+ D	Closes the current terminal	
CTRL+Z	Sends the signal SIGSTOP to temporarily halt the active process	
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Ubu	ntu Terminal Shortcuts
CTRL+L	Clears terminal display
CTRL+Q	Resumes suspended commands
CTRL+S	Halts command output to the screen
CTRL+Z	Halts the current command and places it in the background
CTRL+G	Exits the history search mode
CTRL+J	Completes the history search at the current command line
CTRL+O	Executes the command found in the reverse search
CTRL+N / DOWN ARROW	Displays the following command line
CTRL+P / UP ARROW	Displays the preceding command line
CTRL+_	Undo the last action
ALT+F	Goes forward one word
ALT+B	Goes back one word
ALT+P	Searches the history forward from the current line
CTRL+SHIFT+T	Opens a new tab on the currently active terminal
CTRL+SHIFT+W	Closes the active tab
CTRL+SHIFT+C	Copies the highlighted characters to the clipboard
CTRL+SHIFT+V or SHIFT+INSERT	Pastes contents of the clipboard to the active line
Up/Down Arrow keys	Allows to quickly execute previous commands multiple times
ТАВ	Completes the typing command
CTRL+B / LEFT ARROW	Moves cursor position one character backward
CTRL+F / RIGHT ARROW	Moves cursor position one character forward
CTRL+XX	Switches between the current cursor position and the start line
CTRL+]+A	Moves the cursor forward to next character of A
ALT+CTRL+]+A	Backs the cursor to the preceding character of A