Conscious TechHub

Kali Linux commands Function (D to X)

----------D----------

date : Display or change the date and time

Example: date

dc : Desk Calculator

Example: echo "2+2" | dc

dd : Convert and copy a file, write disk headers, boot records

Example: dd if=input_file of=output_file bs=block_size count=number_of_blocks

ddrescue : Data recovery tool

Example: ddrescue input_file output_file

declare : Declare variables and give them attributes

Example: declare -i num=5

- `df`: Display free disk space

Example: `df -h`

diff : Display the differences between two files

Example: diff file1.txt file2.txt

diff3 : Show differences among three files

Example: diff3 file1.txt file2.txt file3.txt

dig : DNS lookup

Example: dig example.com

dir : Briefly list directory contents

Example: dir

dircolors : Colour setup for 'ls'

Example: `dircolors`

dirname : Convert a full pathname to just a path

Example: dirname /path/to/file

dirs : Display list of remembered directories

Example: dirs

dmesg : Print kernel and driver messages

Example: dmesg

du : Estimate file space usage

Example: du -sh /path/to/directory

----------E----------

- echo: Display a message on the screen

  Example: echo "Hello, World!"

- egrep: Search files for lines that match an extended expression

  Example: egrep 'pattern' file.txt

- eject: Eject removable media

  Example: eject /dev/cdrom

- enable: Enable and disable built-in shell commands

  Example: enable command_name

- env: View and set environment variables

  Example: env

- ethtool: Display or change Ethernet card settings

  Example: ethtool eth0

- eval: Evaluate several commands or arguments

  Example: eval "echo Hello"

- exec: Execute a command, replacing the current shell process

  Example: exec command

- exit: Exit the shell

  Example: exit

- expect: Automate arbitrary applications accessed over a terminal

  Example: expect script.exp

- expand: Convert tabs to spaces

  Example: expand file.txt

- export: Set an environment variable

  Example: export VAR=value

- expr: Evaluate expressions

  Example: expr 2 + 2

----------F----------

- false: Do nothing, unsuccessfully

  Example: false

- fdformat: Low-level format a floppy disk

  Example: fdformat /dev/fd0

- fdisk: Partition table manipulator for Linux

  Example: fdisk /dev/sda

- fg: Send a job to the foreground

  Example: fg %1

- fgrep: Search files for lines that match a fixed string

  Example: fgrep 'search_string' file.txt

- file: Determine file type

  Example: file filename

- find: Search for files that meet desired criteria

  Example: find /path/to/search -name "pattern"

- fmt: Reformat paragraph text

  Example: fmt file.txt

- fold: Wrap text to fit a specified width

  Example: fold -w 80 file.txt

- for: Expand words and execute commands

  Example: for i in {1..5}; do echo $i; done

- format: Format disks or tapes

  Example: format /dev/sdb

- free: Display memory usage

  Example: free -m

- fsck: File system consistency check and repair

  Example: fsck /dev/sda1

- ftp: File Transfer Protocol

  Example: ftp example.com

- function: Define Function Macros

  Example: function_name() { commands; }

- fuser: Identify or kill the process accessing a file

  Example: fuser -k filename

---------- G ----------

- gawk: Find and Replace text within files

  Example: gawk '{sub(/old_text/, "new_text"); print}' file.txt

- getopts: Parse positional parameters

  Example: while getopts ":abc" option; do

      case "${option}" in

```
        a) echo "Option a";;
        b) echo "Option b";;
        c) echo "Option c";;
        *) echo "Invalid option";;
    esac
done
```

- grep: Search files for lines that match a given pattern

  Example: grep 'pattern' file.txt

- groupadd: Add a user security group

  Example: groupadd group_name

- groupdel: Delete a group

  Example: groupdel group_name

- groupmod: Modify a group

  Example: groupmod -n new_group_name old_group_name

- groups: Print group names a user is in

  Example: groups username

- gzip: Compress or decompress named files

  Example: gzip file.txt

---------- H ----------

- hash: Remember the full pathname of a name argument

  Example: `hash command_name`

- head: Output the first part of files

  Example: `head file.txt`

- help: Display help for a built-in command

  Example: `help cd`

- history: Command History

  Example: `history`

- hostname: Print or set system name

  Example: `hostname`

---------- I ----------

- iconv: Convert the character set of a file

  Example: iconv -f utf-8 -t utf-16 file.txt

- id: Print user and group ids

  Example: id

- if: Conditionally perform a command

  Example:

  ```bash
  if [ condition ]; then
     command;
  fi
  ```

- ifconfig: Configure a network interface

  Example: ifconfig eth0 up

- ifdown: Stop a network interface

  Example: ifdown eth0

- ifup: Start a network interface up

  Example: ifup eth0

- import: Capture an X server screen and save the image to a file

  Example: import screenshot.png

- install: Copy files and set attributes

  Example: install -m 644 file.txt /destination/dir/

---------- J ----------

- jobs: List active jobs

  Example: jobs

- join: Join lines on a common field

  Example: join file1.txt file2.txt

---------- K ----------

- kill: Stop a process from running

  Example: kill 1234

- killall: Kill processes by name

  Example: killall firefox

---------- L ----------

- less: Display output one screen at a time

  Example: less file.txt

- let: Perform arithmetic on shell variables

  Example: let "x = 10 + 5"

- ln: Create a symbolic link to a file

  Example: ln -s /path/to/file link_name

- local: Create variables

  Example: local var_name="value"

- locate: Find files

  Example: locate filename

- logname: Print current login name

  Example: logname

- logout: Exit a login shell

  Example: logout

- look: Display lines beginning with a given string

  Example: look search_word file.txt

- lpc: Line printer control program

  Example: lpc status printer_name

- lpr: Off line print

  Example: lpr file.txt

- lprint: Print a file

  Example: lprint file.txt

- lprintd: Abort a print job

  Example: lprintd job_id

- lprintq: List the print queue

  Example: lprintq

- lprm: Remove jobs from the print queue

  Example: lprm job_id

- ls: List information about files

  Example: ls -l /path/to/directory

- lsof: List open files

  Example: lsof -iTCP -sTCP:LISTEN

---------- M ----------

- make: Recompile a group of programs

  Example: make

- man: Help manual

  Example: man ls

- mkdir: Create new folders

  Example: mkdir new_folder

- mkfifo: Make FIFOs (named pipes)

  Example: mkfifo pipe_name

- mkisofs: Create a hybrid ISO9660/JOLIET/HFS filesystem

  Example: mkisofs -o image.iso /path/to/files

- mknod: Make block or character special files

  Example: mknod /dev/mydevice c 100 0

- more: Display output one screen at a time

  Example: more file.txt

- mount: Mount a file system

  Example: mount /dev/sdb1 /mnt/usb

- mtools: Manipulate MS-DOS files

  Example: mtools mb::/mnt/usb

- mtr: Network diagnostics (traceroute/ping)

  Example: mtr google.com

- mv: Move or rename files or directories

  Example: mv file.txt new_location/

- mmv: Mass Move and rename files

  Example: mmv "*.txt" "backup_*.txt"

---------- N ----------

- netstat: Display networking information

  Example: netstat -a

- nice: Set the priority of a command or job

  Example: nice -n 10 command_name

- nl: Number lines and write files

  Example: nl file.txt > numbered_file.txt

- nohup: Run a command immune to hangups

  Example: nohup command_name &

- notify-send: Send desktop notifications

  Example: notify-send "Hello, World!"

- nslookup: Query Internet name servers interactively

  Example: nslookup example.com

---------- O ----------

- Open: Open a file in its default application

  Example: Open document.txt

- op: Operator access

  Example: op command

---------- P ----------

- passwd: Modify a user password

  Example: passwd username

- paste: Merge lines of files

  Example: paste file1.txt file2.txt > merged_file.txt

- pathchk: Check file name portability

  Example: pathchk filename

- ping: Test a network connection

Example: ping google.com

- pkill: Stop processes from running

Example: pkill process_name

- popd: Restore the previous value of the current directory

Example: popd

- pr: Prepare files for printing

Example: pr file.txt

- printcap: Printer capability database

Example: printcap

- printenv: Print environment variables

Example: printenv

- printf: Format and print data

Example: printf "Hello, World!\n"

- ps: Process status

Example: ps aux

- pushd: Save and then change the current directory

Example: pushd /path/to/directory

- pwd: Print Working Directory

Example: pwd

---------- Q ----------

- quota: Display disk usage and limits

Example: quota -u username

- quotacheck: Scan a file system for disk usage

Example: quotacheck /dev/sda1

- quotactl: Set disk quotas

Example: quotactl -v -u username -b 100M /home

---------- R ----------

- ram: Ram disk device

Example: sudo mount -t tmpfs -o size=512M tmpfs /mnt/ramdisk

- rcp: Copy files between two machines

Example: rcp file.txt username@remote_host:/path/to/destination

- read: Read a line from standard input

  Example: read -p "Enter your name: " name; echo "Hello, $name!"

- readarray: Read from stdin into an array variable

  Example: readarray -t lines < file.txt

- readonly: Mark variables/functions as readonly

  Example: readonly variable_name

- reboot: Reboot the system

  Example: sudo reboot

- rename: Rename files

  Example: rename 's/old_name/new_name/' *

- renice: Alter priority of running processes

  Example: renice +10 -p process_id

- remsync: Synchronize remote files via email

  Example: remsync -r /path/to/local/directory user@remote_host:/path/to/remote/directory

- return: Exit a shell function

  Example: return

- rev: Reverse lines of a file

  Example: rev file.txt

- rm: Remove files

  Example: rm file.txt

- rmdir: Remove folders

  Example: rmdir directory_name

- rsync: Remote file copy (Synchronize file trees)

  Example: rsync -avz /path/to/source/ username@remote_host:/path/to/destination/

---------- S ----------

- screen: Multiplex terminal, run remote shells via SSH

  Example: screen -S session_name ssh user@hostname

- scp: Secure copy (remote file copy)

  Example: scp file.txt user@remote_host:/path/to/destination/

- sdiff: Merge two files interactively

  Example: sdiff file1.txt file2.txt

- sed: Stream Editor

  Example: sed 's/old_pattern/new_pattern/g' file.txt

- select: Accept keyboard input

  Example:

  ```bash
  select fruit in Apple Banana Orange; do
      echo "You selected: $fruit"
      break
  done
  ```

- seq: Print numeric sequences

  Example: seq 1 10

- set: Manipulate shell variables and functions

  Example: set -x # Enable debugging mode

- sftp: Secure File Transfer Program

  Example: sftp user@remote_host

- shift: Shift positional parameters

  Example:

```bash
echo "First argument: $1"
shift
echo "First argument after shift: $1"
```

- shopt: Shell Options
  Example: shopt -s extglob # Enable extended pattern matching

- shutdown: Shutdown or restart Linux
  Example: sudo shutdown -r now # Restart immediately

- sleep: Delay for a specified time
  Example: sleep 5 # Sleep for 5 seconds

- slocate: Find files
  Example: slocate keyword

- sort: Sort text files
  Example: sort file.txt

- source: Run commands from a file
  Example: source script.sh

- split: Split a file into fixed-size pieces

  Example: split -b 10M large_file.txt

- ssh: Secure Shell client (remote login program)

  Example: ssh user@remote_host

- strace: Trace system calls and signals

  Example: strace ls

- su: Substitute user identity

  Example: su username

- sudo: Execute a command as another user

  Example: sudo apt-get update

- sum: Print a checksum for a file

  Example: sum file.txt

- suspend: Suspend execution of this shell

  Example: suspend

- symlink: Make a new name for a file

  Example: ln -s /path/to/original_file /path/to/symlink

- sync: Synchronize data on disk with memory

  Example: sync

---------- T ----------

- tail: Output the last part of a file

  Example: tail -n 10 file.txt # Display the last 10 lines of file.txt

- tar: Tape Archiver

  Example: tar -cvf archive.tar file1 file2 # Create a new archive named archive.tar containing file1 and file2

- tee: Redirect output to multiple files

  Example: ls -l | tee output.txt # List directory contents and save the output to output.txt

- test: Evaluate a conditional expression

  Example: test -f file.txt # Check if file.txt exists

- time: Measure program running time

  Example: time ls # Measure the time taken by the ls command

- times: User and system times

  Example: times # Display user and system times for the shell and its children

- touch: Change file timestamps

Example: touch file.txt # Update the timestamp of file.txt to the current time

- top: List processes running on the system

  Example: top # Display live system information, including CPU and memory usage

- traceroute: Trace Route to Host

  Example: traceroute google.com # Trace the route to google.com

- trap: Run a command when a signal is set (Bourne shell)

  Example:

  ```bash
  trap 'echo "Signal received"' SIGINT
  sleep 10  # Press Ctrl+C to trigger the trap and see the message
  ```

- tr: Translate, squeeze, and/or delete characters

  Example: echo "hello" | tr '[:lower:]' '[:upper:]' # Convert lowercase to uppercase

- true: Do nothing, successfully

  Example: true # Do nothing and exit with a success status

- tsort: Topological sort

  Example: tsort file.txt # Perform a topological sort on the contents of file.txt

- tty: Print filename of terminal on stdin

  Example: tty # Display the filename of the terminal

- type: Describe a command

  Example: type ls # Describe the ls command and its type

---------- U ----------

- ulimit: Limit user resources

  Example: ulimit -n 1000 # Set the maximum number of open file descriptors to 1000

- umask: Users file creation mask

  Example: umask 022 # Set the default permissions for newly created files to 644

- umount: Unmount a device

  Example: umount /mnt/usb # Unmount the USB device mounted at /mnt/usb

- unalias: Remove an alias

  Example: unalias ll # Remove the 'll' alias for 'ls -l'

- uname: Print system information

  Example: uname -a # Display detailed system information including kernel version and architecture

- unexpand: Convert spaces to tabs

Example: unexpand -t 4 file.txt # Convert spaces to tabs in file.txt with tab stops set every 4 spaces

- uniq: Uniquify files

Example: uniq file.txt # Remove duplicate adjacent lines in file.txt

Here are the commands with examples for the listed commands:

- units: Convert units from one scale to another

Example: units 'miles per hour' 'kilometers per hour' # Convert speed from miles per hour to kilometers per hour

- unset: Remove variable or function names

Example: unset MY_VARIABLE # Remove the variable named MY_VARIABLE

- unshar: Unpack shell archive scripts

Example: unshar archive.sh # Unpack the shell archive script named archive.sh

- until: Execute commands until an error occurs

Example: until ./my_script.sh; do echo "Retrying..."; done # Execute my_script.sh until it exits without an error

- uptime: Show system uptime

Example: uptime # Display system uptime, load average, and number of users logged in

- useradd: Create a new user account

  Example: useradd myuser # Create a new user account named myuser

- usermod: Modify a user account

  Example: usermod -aG sudo myuser # Add myuser to the sudo group

- users: List users currently logged in

  Example: users # Display a list of users currently logged in

- uuencode: Encode a binary file for transmission

  Example: uuencode myfile.txt myfile.txt # Encode myfile.txt for transmission

- uudecode: Decode a file created by uuencode

  Example: uudecode myfile.txt.uue # Decode myfile.txt.uue to retrieve the original file

- v: Verbosely list directory contents

  Example: v /path/to/directory # Verbosely list the contents of the directory

- vi: Text Editor

  Example: vi myfile.txt # Open and edit myfile.txt using the vi text editor

- vmstat: Report virtual memory statistics

  Example: vmstat 1 # Display virtual memory statistics every 1 second

- wait: Wait for a process to complete

  Example: wait 12345 # Wait for the process with PID 12345 to complete

- wc: Print byte, word, and line counts

  Example: wc myfile.txt # Display byte, word, and line counts for myfile.txt

- whereis: Search for program files in specific directories

  Example: whereis ls # Find the location of the ls command

- which: Search for executable files in the user's PATH

  Example: which ls # Find the full path of the ls command

- while: Execute commands repeatedly based on a condition

  Example: while true; do echo "Hello, World!"; sleep 1; done # Print "Hello, World!" every second indefinitely

- who: Print usernames of users currently logged in

  Example: who # Display usernames of users currently logged in

- whoami: Print the current user's ID and name

  Example: whoami # Display the current user's ID and name

- wget: Retrieve web pages or files via HTTP, HTTPS, or FTP

Example: wget https://example.com/file.txt # Download file.txt from the specified URL using wget

- write: Send a message to another user

Example: write myfriend # Send a message to the user named myfriend

- xargs: Execute utility, passing constructed argument lists

Example: find . -name "*.txt" | xargs rm # Delete all .txt files in the current directory and its subdirectories

- xdg-open: Open a file or URL in the user's preferred application

Example: xdg-open myfile.txt # Open myfile.txt using the default application associated with its file type

- yes: Print a string until interrupted

Example: yes "Hello, World!" # Print "Hello, World!" repeatedly until interrupted

The End

Social Media ID

LinkedIn	https://www.linkedin.com/in/conscious-techhub-0413932b5/
Twitter	https://twitter.com/Vikki__Verma
Facebook	https://www.facebook.com/profile.php?id=61557177226600
Instagram	https://www.instagram.com/conscious_techhub_85/
Telegram	https://t.me/consciousteчhhub
Github	https://github.com/Conscious-TechHub
Whatsapp	https://whatsapp.com/channel/0029VaNnUYZICVftyaejqw2u
Buysmecoffee	https://www.buymeacoffee.com/invite/Conscious.TechHub

Youtube	https://www.youtube.com/@Conscious-TechHub