Linux Commands

X Kali Linux Command Reference Guide

Package Management (APT & DPKG)

Command	Explanation
dpkg -l	Lists all installed packages on the system.
dpkg -l kali-linux-firmware	Checks if the kali-linux-firmware package is installed and displays version info.
apt search kali-linux	Searches for all packages related to Kali Linux.
sudo apt install kali-linux-core -y	Installs the essential core tools of Kali Linux (headless/basic tools). The -y auto-confirms.
apt search kali-linux-core	Finds information about the kali-linux-core package.
sudo apt install kali-linux-default -y	Installs the full default set of Kali Linux tools.
cat /etc/apt/sources.list	Displays your APT repository list (software sources).

System Info & Kernel

Command	Explanation
uname	Prints the system name (e.g., Linux).
uname -a	Displays all kernel/system info (kernel, hostname, architecture, etc).
uname -r	Shows just the kernel release version.
hostnamectl	Displays hostname and system OS/kernel info in a neat format.

File Navigation & Viewing

Command	Explanation
pwd	Shows the current working directory.
Is	Lists files and folders in the current directory.
cd Desktop	Moves into the Desktop directory.
cd -	Goes back to the previous directory.
cat filename.txt	Displays contents of a text file.
batcat filename.txt	Pretty version of cat, with syntax highlighting.

Date & Time

Command	Explanation
date	Prints the current date and time.
date +%a	Shows the abbreviated day of the week (e.g., Mon).
timedatectl status	Shows system date, time, and NTP sync info.
cal 1995	Displays calendar for the year 1995.
ncal	An alternate, vertical calendar view.
sudo hwclock	Shows the hardware clock time (BIOS time).

System Resource Info

Command	Explanation
free -h	Shows memory usage in human-readable format (e.g., MB/GB).
Iscpu	Displays CPU architecture and specs.
Ismem	Shows memory block details.
cat /proc/cpuinfo	Outputs detailed info about your CPU(s).

df -h	Shows disk space usage with human-readable sizes.
df -T	Adds filesystem type to df output.
Isblk	Lists all block devices (disks, partitions, etc).

Disk & Partition Tools

Command	Explanation
sudo fdisk -l	Lists all partitions and disk details.
dfhelp	Shows the help menu for df.

■ System Monitoring Tools

Command	Explanation
top	Real-time list of system processes, memory, CPU use.
htop	Colorful, enhanced version of top . Navigate with arrows.

Counting Words, Lines, Characters (wc)

Command	Explanation	Example
wc filename.txt	Displays line, word, and byte counts.	wc myfile.txt
wc -l filename.txt	Line count only.	wc -I notes.txt
wc -w filename.txt	Word count only.	wc -w article.md
wc -m filename.txt	Character count.	wc -m script.sh
wchelp	Shows all available wc options.	

Shell History & Info

Command	Explanation
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echo \$HISTSIZE	Displays number of saved shell commands.
cat ./.zsh_history	Shows shell command history for Zsh.
du -sh ./.zsh_history	Shows disk usage of your history file.

Metworking & Host

Command	Explanation
ping localhost	Tests local network stack. Useful for basic checks.

1 User & Shell Info

Command	Explanation
id	Shows your UID and group memberships.
whoami	Displays current logged-in username.
passwd [username]	Changes the password (yours or another user).
sudo su	Switches to the root user (if permitted).
echo \$SHELL	Prints the default shell (e.g., /bin/bash).
cat /etc/shells	Lists available login shells.

鱰 Manual Pages & Help

Command	Explanation
man -k users	Searches manual pages related to "users".
man Is	Opens manual page for Is command.
info Is	Info-based manual for Is.
pinfo Is	pinfo version (uses curses interface).
sudo mandb	Updates the manual page database.
cat /usr/share/doc/nano/nano.html	Views Nano's HTML documentation in terminal.