Linux Simplified: Compact Command Reference

1. Quick Help

- Traditional help: man (exit with g)
- GNU online help: info (exit with g)
- Keyword search: apropos
- Display short description: whatis

2. File Management Made Easy

- Display and analyze files: cat, more, less, head, tail, nl, od, hd
- List files: 1s
- List file attributes: 1sattr
- Determine file type: file
- Identify program file: type
- Count characters, words, and lines: we
- Calculate file checksum: sum, md5sum, sha1sum
- Display opened files: 1sof

3. Search and Find

- Search for files: find
- Quick file search: locate, slocate
- Update locate database: updatedb
- Search in files: grep, fgrep, egrep
- Display full path: which
- Display path: whereis

4. Compare, Unite, and Sort Files

- Compare text files: diff
- Merge files: join
- Sort files: sort

5. Efficient Compression and Archiving

- (De)compress files: gzip, gunzip, pack, unpack, compress, uncompress, arc, unarj
- (De)compress with bzip: bzip2, bunzip2, bzcat
- View contents of gzip archives: zcat, zless, zmore

• Archive and copy files: tar, cpio

6. Control Access Rights and Attributes

- Change access rights: chmod
- Change owner: chown
- Change group: chgrp
- Change attributes: chattr
- Set/Display file creation mask: umask
- Change timestamp: touch

7. Transform and Split Files

- Replace characters: tr
- Transform strings: sed
- Convert tabs to spaces: expand

- Convert character sets: recode, iconv
- Output unique lines: uniq
- Cut columns: cut
- Split files: split, csplit

8. Printing and Managing Print Jobs

- Print file: 1p, 1pr
- Inquire status: lpstat, lpq
- Cancel print jobs: cancel
- Manage printers: 1pc
- Delete print jobs: 1prm

9. Device and Directory Management

- Create device files or named pipes: mknod
- Create FIFO files: mkfifo
- Display current directory: pwd
- Change to a directory: ca
- Create a directory: mkdir
- Delete a directory: rmdir
- Compare two directories: diff
- Basename of a path: basename
- Directory name of a path: dirname

10. Monitoring Disk Space

- Determine free disk space: af
- Analyze disk usage: du
- Display free main memory and swap: free

11. File System Control

- Mount a file system: mount
- Unmount a file system: umount
- Partition a hard disk: fdisk, cfdisk
- Create, shrink, enlarge, and move partitions: parted
- Format floppy disks: fdformat
- Copy and convert file systems: aa
- Information about an ext2/ext3 file system: dumpe2fs
- Change system parameters: tune2fs
- Write buffered data to disk: sync
- Access MS-DOS floppy disks: mtools

12. User and Group Management

- Add a user: useradd, adduser
- Modify user properties: usermod
- Set/display password expiration: chage
- Change password: passwd
- Delete a user: userdel
- Determine own login name: logname, whoami
- Determine user and group ID: id
- Add a group: groupadd

- Modify group name or ID: groupmod
- Delete a group: groupdel
- Display group memberships of a user: groups
- Show logged-in users: who, w
- Send a message to logged-in users: wall
- Display last logins: last, lastlog
- End a session: logout, exit

13. Process Management

- Display information about processes: ps
- Display process hierarchy: pstree
- List processes by CPU usage: top
- Perform time measurements for processes: time
- Send signals to processes: kill, killall
- Terminate a process under X: **xkill**
- Start processes in the background: &
- List suspended or background processes: jobs
- Terminate a process in the foreground: [Ctrl] + c
- Pause a process in the foreground: [Ctrl] + z
- Resume a process in the background: bg
- Resume a process in the foreground: fg
- Schedule periodic execution of programs: cron, crontab
- Execute a program periodically and display output: watch
- Schedule programs for specific times: at
- Execute commands sometime later: batch
- Allow processes to continue after session end: nohup
- Make a process sleep: sleep
- Run programs as another user: su
- Execute as another user: sudo
- Change process priorities: nice, renice

14. System Maintenance and Restart

- Shut down the system: shutdown
- Restart the system: reboot
- Halt all processes: halt
- Display runlevel: runlevel
- Change runlevel: init
- Display boot messages: dmesg
- Display system information: uname
- Display time since system start and average load: uptime

15. Hardware Insights

- Display PCI devices: 1spci
- Set hard disk parameters: hdparm

16. Date, Time, and Calendar

- Query and set date and time: date
- Set hardware clock: hwclock

	Display calendar: cal
17. Networking Capabilities	
	Test connections: ping
	Display or change own hostname: hostname
	Determine hostname or IP: host
	Configure network interface: ifconfig
	 Bring up or down network connection: ifup, ifdown
	Display network connections: netstat
	Trace the route of a packet through the network: traceroute
	• FTP, Secure Shell, and secure file copying: ftp, wget, ssh, scp
18. Terminal Management	
	• Set and query terminal settings: stty
	Change terminal settings: setterm
	Restore terminal character set: reset
	Clear the screen: clear
	Query terminal name: tty
	• Switch terminals: [Alt] + [F1 to Fn]
	• Switch from X to terminal: [Ctrl] + [Alt] + [F1 to Fn]
19. Shell Know-How	
	Change login shell: chsh
	 Display or change environment variables: printenv, set
	Export environment variables: export
	Assign or delete command aliases: alias, unalias
	 Input and output redirection: I, tee, xargs, >, >>, 2>, <, ., source
20. Text Editing Made Easy	
	• Edit files: nano, pico, joe, vi, emacs
21. Po	stScript and PDF Conversion
	Convert PostScript and PDF files: gs
	 Convert text to PostScript: a2pdf, enscript, mpage
	 Convert PDF to PostScript and vice versa: pdf2ps, ps2pdf
	Convert HTML files to PostScript: html2ps
	Convert DVI files to PostScript: dvips
	Manipulate PostScript files: psutils
22. Ot	her Handy Commands
	• Output text: echo
	Display required shared libraries for program execution: 1aa
	 Compile and link C and C++ programs: cc, gcc, g++, make
	• Encrypt files: gpg
	• Calculator: ъс

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