

Linux Command Cheat Sheet


◆ File & Directory Management

Command	Description
ls	List files in a directory
ls -l	List files in long format
ls -a	Show hidden files
pwd	Print current working directory
cd <dir>	Change directory
cd ..	Move up one directory
mkdir <dir>	Create a new directory
rmdir <dir>	Remove an empty directory
rm <file>	Delete a file
rm -r <dir>	Remove a directory and its contents
cp <source> <dest>	Copy a file
mv <source> <dest>	Move or rename a file
touch <file>	Create a new empty file
find <dir> -name <filename>	Search for a file
tree	Display directory structure

◆ File Permissions

Command	Description
chmod 755 <file>	Change file permissions (owner: rwx, group: r-x, others: r-x)
chown user:group <file>	Change file owner and group
ls -l	View file permissions
umask 022	Default permissions for new files



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◆ File Content & Editing

Command	Description
cat <file>	View file contents
tac <file>	View file in reverse
less <file>	View file one page at a time
head -n <num> <file>	View first N lines of a file
tail -n <num> <file>	View last N lines of a file
nano <file>	Open file in Nano editor
vim <file>	Open file in Vim editor
echo "text" > <file>	Write text to a file (overwrite)
echo "text" >> <file>	Append text to a file
grep "text" <file>	Search for text in a file
wc -l <file>	Count number of lines in a file
diff <file1> <file2>	Compare two files
sort <file>	Sort lines in a file

◆ User Management

Command	Description
whoami	Show current user
who	Show logged-in users
id	Show user ID and group ID
adduser <user>	Add a new user
passwd <user>	Change user password
deluser <user>	Delete a user
groupadd <group>	Create a new group
usermod -aG <group> <user>	Add user to a group



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◆ Process Management

Command	Description
ps aux	Show all running processes
top	Display active processes in real-time
htop	Interactive process viewer (if installed)
kill <PID>	Kill a process by PID
killall <process>	Kill all processes by name
pkill <process>	Kill process by name
nohup <command> &	Run command in background (ignore hangups)

◆ Networking

Command	Description
ping <host>	Check connectivity to a host
curl <URL>	Fetch content from a URL
wget <URL>	Download a file from a URL
ifconfig	Show network interfaces (deprecated)
ip addr show	Show network interfaces (modern alternative)
netstat -tulnp	List open ports
ss -tulnp	Alternative to netstat for open ports
scp <file> user@host:/path	Copy files over SSH
rsync -avz <source> <dest>	Sync files/directories
hostname -I	Show local IP address



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◆ Disk & Storage

Command	Description
df -h	Show disk space usage
du -sh <dir>	Show size of a directory
lsblk	Show block devices (partitions)
mount /dev/sdX /mnt	Mount a disk partition
umount /mnt	Unmount a partition
fdisk -l	Show partition table

◆ System Monitoring

Command	Description
uptime	Show system uptime
free -h	Show memory usage
vmstat	Show system performance
iostat	Show CPU & disk stats
dmesg	Show boot log messages



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Linux Command Cheat Sheet

◆ Package Management

◆ Debian/Ubuntu (apt)

Command	Description
<code>sudo apt update</code>	Update package list
<code>sudo apt upgrade</code>	Upgrade installed packages
<code>sudo apt install <package></code>	Install a package
<code>sudo apt remove <package></code>	Remove a package
<code>dpkg -l</code>	List installed packages

◆ Red Hat/CentOS (yum or dnf)

Command	Description
<code>sudo yum install <package></code>	Install a package
<code>sudo yum remove <package></code>	Remove a package
<code>sudo yum update</code>	Update system

◆ Arch (pacman)

Command	Description
<code>sudo pacman -S <package></code>	Install a package
<code>sudo pacman -R <package></code>	Remove a package



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Linux Command Cheat Sheet

◆ Compression & Archiving

Command	Description
<code>tar -cvf archive.tar <files></code>	Create a tar archive
<code>tar -xvf archive.tar</code>	Extract a tar archive
<code>tar -czvf archive.tar.gz <files></code>	Create a gzip-compressed tar archive
<code>tar -xzvf archive.tar.gz</code>	Extract a gzip-compressed tar archive
<code>zip archive.zip <files></code>	Create a zip archive
<code>unzip archive.zip</code>	Extract a zip file

◆ Permissions & Ownership

Command	Description
<code>chmod 755 <file></code>	Change file permissions (rwx for owner, rx for others)
<code>chmod +x <file></code>	Make file executable
<code>chown user:group <file></code>	Change file owner/group
<code>sudo</code>	Execute command as root



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Linux Command Cheat Sheet

◆ Shortcuts & Misc

Command	Description
<code>clear</code>	Clear terminal screen
<code>history</code>	Show command history
<code>alias ll='ls -la'</code>	Create a shortcut for a command
<code>unalias ll</code>	Remove an alias
<code>!!</code>	Repeat the last command
<code>CTRL + C</code>	Stop a running process
<code>CTRL + Z</code>	Suspend a process
<code>bg</code>	Resume a suspended process in background
<code>fg</code>	Resume a process in foreground



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