

ULTIMATE LINUX COMMANDS CHEAT SHEET



Linux is only free if
your time has no
value.

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System Information and Management

Command	Description
uname -a	Display system information.
hostname	Display or set the system's host name.
whoami	Display the current user.
top	Display system usage and processes.
ps	Display information about processes.
kill [PID]	Terminate a process by its process ID.
reboot	Reboot the system.
shutdown	Shut down the system.
df -h	Display disk space usage.
du -h	Display disk usage of files and directories.
free -m	Display amount of free and used memory.
uptime	Display how long the system has been running.

Text Manipulation

Command	Description
grep [pattern] [file]	Search for patterns in files.
sed 's/old/new/g' [file]	Search and replace text.
awk [pattern] [file]	Pattern scanning and processing language.
sort [file]	Sort lines of text files.
uniq [file]	Report or omit repeated lines.
cut -d [delimiter] -f [fields] [file]	Extract sections from lines.

File Permissions and Ownership

Command	Description
chmod [permissions] [file]	Change file permissions.
chown [owner]:[group] [file]	Change file owner and group.
chgrp [group] [file]	Change file group.

File Compression and Archiving

Command	Description
tar -cvf [archive.tar] [files]	Create a new tar archive.
tar -xvf [archive.tar]	Extract files from a tar archive.
gzip [file]	Compress files.
gunzip [file]	Decompress files.
zip [archive.zip] [files]	Create a new ZIP archive.
unzip [archive.zip]	Extract files from a ZIP archive.

User and Group Management

Command	Description
useradd [username]	Add a new user.
passwd [username]	Set or change user password.
userdel [username]	Delete a user.
groupadd [group]	Add a new group.
groupdel [group]	Delete a group.
id [username]	Display user and group information.

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File System Navigation and Manipulation

Command	Description
ls	List files and directories.
cd [directory]	Change current directory.
pwd	Print working directory.
mkdir [directory]	Create a new directory.
rmdir [directory]	Remove an empty directory.
touch [file]	Create an empty file or update timestamps.
cp [source] [destination]	Copy files or directories.
mv [source] [destination]	Move or rename files/directories.
rm [file]	Remove files or directories.
cat [file]	Display or concatenate files.
less [file]	View file content with paging.
head [file]	Display the first part of a file.
tail [file]	Display the last part of a file.

Note: This cheatsheet provides a broad overview of essential Linux commands. Depending on your specific needs and system configuration, you may encounter additional commands or options. Always refer to man pages or online documentation for more in-depth information.

Package Management

Command	Description
apt-get install [package]	Install software packages.
apt-get remove [package]	Remove software packages.
apt-get update	Update list of available packages.
apt-get upgrade	Upgrade all installed packages.
apt-cache search [keyword]	Search for packages.

Network and Connectivity

Command	Description
ifconfig	Display network interface configuration.
ping [host]	Test network connectivity.
nslookup [host]	Query DNS for domain information.
netstat -tuln	Display listening ports.
iptables	Configure firewall rules.
route	Display or modify the IP routing table.

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