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↑ https://github.com/hofmannedv/cheatsheets.







1 System information and administration

blkid List the block devices, and its ids cfdisk, fdisk Alter the partition table cpu-info, List detailed cpu information cpuid, lscpu df, dfc, duf Show available disk space du, duf Show disk space usage free List both available and used memory, and SWAP space halt, poweroff, shutdown journalctl Query the system journal lsblk Display information about the system's block devices lsdev, lshw Display information about installed hardware lsof List open files lspci List all pci devices lsusb List all usb devices mailq Listing of the contents of the mail queue on the standard output reboot Reboot the system systemctl Reboot the system systemd-cat Connect a pipeline or program's output with the journal uname Display the Linux kernel that is in use untime Display the time the system is already up and running		
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uname Display the Linux kernel that is in use	systemd-cat	Connect a pipeline or program's output with the jour-
· ·	-	
· ·	uname	Display the Linux kernel that is in use
apoimo Display the time the system is already up and running	uptime	Display the time the system is already up and running

2 Find files and directories

find	Find files, and directories by various criteria
locate	Find files, and directories by name based on the locate
	database
updatedb	Initialize, and update the locate database

3 File and directory operations

cd	Change to a directory
ср	Copy a file
file	Identify the file type
ln	Create a link
ls	List the contents of a directory
mkdir	Create a directory
mmv	Rename, or move multiple files, or directories
mv	Rename, or move a single file, or directory
pwd	Print the current working directory
rm	Remove one or more files, or directories
rmdir	Remove an empty directory
stat	Display details of a file, directory, or link
touch	Create an empty file, or update the timestamp of an
	existing file
umask	Set file mode creation mask

4 Package management (selection)

apt, apt-get, aptitude, synaptic	Install, update, and remove software packages 1
apt-cache	Manage, and query the package cache 1
dpkg	Install, update, and remove software packages 1
dpkg-reconfigur	Reconfigure package configuration 1
rpm, yum	Install, update, and remove software packages 2
Notes:	

1: Debian GNU/Linux, Ubuntu, and Linux Mint

2: RedHat Linux, Fedora, and OpenSuse

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Network commands

dhclient	Request a dynamic IP address
dig, host	DNS lookup utility
hostname	Display the system's hostname
ifconfig,	Configure network interfaces, and display interface
iwconfig	configuration (deprecated)
ifdown	Disable a network interface
ifup	Enable a network interface
ip	Configure network interfaces, and display interface
	configuration
iwlist	List available wireless networks
nc, netcat	TCP/IP swiss army knife
netstat, ss	Display network statistics
nmap	Scan network ports
nslookup	Lookup name service entries
ping, ping6	Send ICMP package to a host
route	Display routing table
tcpdump	Dump traffic on a network
traceroute,	Print the route packets trace to network host
traceroute6	
wget	Non-interactive data transfer

Secure data transfer

rsync, scp	Synchronize data locally, or remotely using a secure, encrypted channel
ssh	Connect to a remote system using a secure, encrypted channel
ssh-copy-id	Transfer an SSH public key to a remote system for password-less authentification
ssh-keygen	Generate an SSH key pair for password-less authen- tification

7 Users, groups, and access control

addgroup	Add a new group 1
adduser	Add a new user 1
chage	Modify the duration a user account is valid
chgrp	Modify the group of a file, or directory
chmod	Modify the access rights of a file, or directory
chown	Modify the owner of a file, or directory
delgroup	Remove an existing group 1
deluser	Remove an existing user 1
getfacl	Display ACL permissions of a file, or directory
getent	Lookup user information in local databases
groupadd	Add a new group 2
groupdel	Remove an existing group 2
groupmod	Modify an existing group 2
groups	Display the groups a user belongs to
id	Display user information
last, lastb	Show last (unsuccessful) login time for a user
passwd,	Modify password for a user account
usermod	
pwgen	Generate a random password
setfacl	Set ACL permissions of a file, or directory
su	Switch to a different user account
sudo	Run command as administrative user
useradd	Add a new user 2
userdel	Remove an existing user 2
usermod	Modify an existing user 2
users, w, who	List logged-in users
	Write a message to all users currently logged in
wall	Display current user name

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8 Getting help

apropos	Display a short help text explaining the given command
info	Get help using the GNU Info system
man	Display an extended help text explaining the given command
manpath	Manage the path for manual pages
whatis	Looks up the index database for short help texts explaining the given command

9 Using pagers

less, more	Display data page by page
most	Display data page by page, and in multiple windows

10 Processes and job control

bg	Send process to the background
fg	Bring a process into the foreground
htop, top	A process monitor
jobs	List running jobs
kill	Send a signal to a process
killall	Send a signal to a number of processes
nice, renice	Modify the nice level of a process
pgrep	Find a process by its name, or by Regular Expression
pkill	Look up or signal processes based on name and other attributes
ps	List running processes
pstree	Display processes as a tree structure
pwdx	Display the working directory of a process
sleep	Pause the execution of commands
watch	Execute a program periodically, showing output fullscreen

11 Text and data stream processing

awk Alter, or extract data from text files preferably by column cat Output a file from top to bottom cmp, diff Compare two files, and show the differences betwee
cmp, diff Compare two files, and show the differences betwee
• ,
CICIII
colrm Remove a column from a file
column Display data column-wise
cut Extract data from text files by column
egrep, fgrep, Filter text files by pattern line-wise grep
head Print a specified number of lines beginning at the to of a file
hexdump Output data as hexadecimal characters
nl Output a file, and add line numbers
paste Combine single files into one
rev Output text in reverse order
sed Modify a file line-wise
sort Sort a file
split Split a file based on conditions
tac Output a file from bottom to top
tail Print a specified number of lines beginning at the bot
tee Read from stdin, and print to both a file, and stdout
tr Replace text in a file
uniq Report, or remove duplicate lines
wc Count lines, words, and characters of a file

12 Dealing with log files

logger	A shell command interface to the syslog system log module
logrotate	Rotates, compresses, and mails system logs

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13 Handling file systems

e2fsck, fsck	File system check
findmnt	List, and search for mounted file systems
mkfs	Create a file system
mkswap	Prepare a partition for SWAP usage
mount	Mount a file system
swapoff	Disable a SWAP partition
swapon	Ensable a SWAP partition
tune2fs	Modify existing file system
umount	Unmount a file system

14 Working with terminals and shells, adjust the working environment

alias	List, or alter aliases for commmands	
clear	Clear the screen	
echo	Output text on the screen	
env	Display the environment variables	
exit, logout	Quit the current shell session	
fc	Modify the command history	
history	Display the previously used commands	
screen, tmux	A terminal multiplexer	
set	Enable, or change a run-time parameter	
time	Measure the execution time of a command	
type	Identify command type	
unalias	Remove an alias for a command	
unset	Remove, or disable a runtime parameter	
whatis	Lookup the index database for command descriptions	
whereis	Lookup the binary files, source code files, and manual	
	pages for a command	
which	Identify which command will be run by the shell	
xargs	Build and execute command lines from standard input	

15 Handling the Linux kernel

dmesg	Display, and control the kernel ring buffer
insmod	Insert (activate) a kernel module into the currently running Linux kernel
lsmod	List the kernel modules from the currently running Linux kernel
modinfo	Display information about a kernel module
modprobe	Try to insert (activate) a kernel module into the currently running Linux kernel
rmmod	Remove (deactivate) a kernel module from the currently running Linux kernel
uname	Display information about the currently running Linux kernel

16 Printing

lp, lpr	Print files, or change an existing printing job
lpc	Manage printers
lpq	Display the contents of the printer queue
lprm	Remove an existing job from the printer queue

17 System time, date, calendar, and locales

cal, ncal	Display a calendar
date	Display a date in various formats
hwclock	Manage both the hardware, and the system clock
locale	Display information about the current locale
ntpdate,	Retrieve the time information from an NTP server
ntpsec-ntpdate	
timedatectl	Control the system time and date

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18 Archives and data compression

bunzip2	Unpack a compressed file (bzip2 format)	
bzcat	Output file content to stdout from a compressed file (bzip2 format)	
bzegrep, bzfgrep, bzgrep	Search in a bz-compressed file	
bzip2	Compress a file (bzip2 format)	
gunzip	Unpack a compressed file (gzip format)	
gzip	Compress a file (gzip format)	
tar	Create, and manage a tape archive (tar file)	
unzip	Unpack a compressed file (zip format)	
XZ	Compress a file (xz format)	
xzcat	Output file content to stdout from a compressed file (xz format)	
xzegrep, xzfgrep, xzgrep	Search in a xz-compressed file	
zip	Compress a file (zip format)	
zcat	Output file content to stdout from a compressed file (zip format)	
zegrep, zfgrep, zgrep	Search in a zip-compressed file	

19 System libraries

ldd	Print shared library dependencies
ldconfig	Configure dynamic linker run-time bindings

Notes