SEE DISCOUNTS







Important: Depending on your system setup, some of the commands below may require invoking **sudo** to be executed.

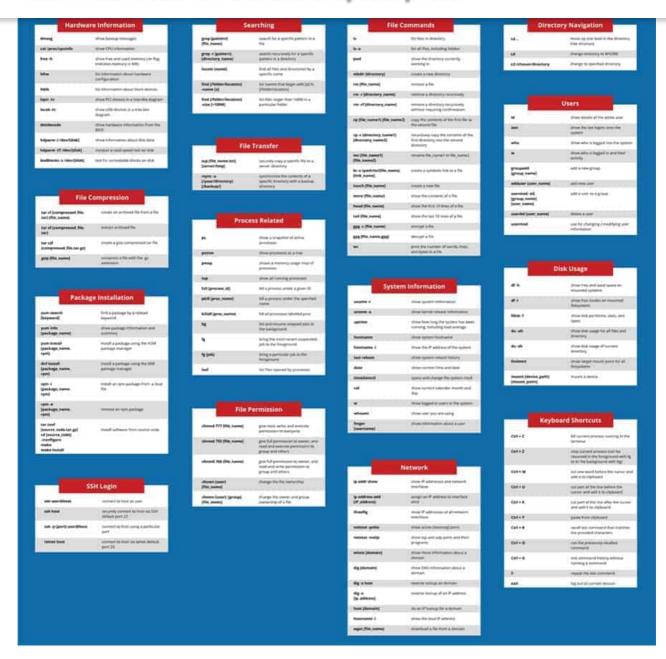
Linux Commands Cheat Sheet PDF

If you prefer having all the commands on a one-page reference sheet, we created a helpful **Linux command line cheat sheet**. You can save the **list of linux commands** in PDF format by clicking the **Download Linux Cheat Sheet** button below.

DOWNLOAD Linux Cheat Sheet

SEE DISCOUNTS





Linux Commands List

The commands found in the downloadable cheat sheet are listed below.

Hardware Information

Show bootup messages:

dmesg

See CPU information:



Display free a ı	nd used	memory	with:
-------------------------	---------	--------	-------

free -h

List hardware configuration information:

lshw

See information about block devices:

lsblk

Show **PCI devices** in a tree-like diagram:

lspci -tv

Display **USB devices** in a tree-like diagram:

lsusb -tv

Show hardware information from the BIOS:

dmidecode

Display disk data information:

hdparm -i /dev/disk

Conduct a read-speed test on device/disk:

hdparm -tT /dev/[device]



badblocks -s /dev/[device]

Searching

Search for a specific pattern in a file with grep:

```
grep [pattern] [file name]
```

Recursively search for a pattern in a directory:

```
grep -r [pattern] [directory_name]
```

Find all files and directories related to a particular name:

```
locate [name]
```

List names that begin with a specified character [a] in a specified location [/folder/lo cation] by using the find command:

```
find [/folder/location] -name [a]
```

See files larger than a specified size [+100M] in a folder:

```
find [/folder/location] -size [+100M]
```

File Commands

List files in the directory:

1s

List all files (shows hidden files):

ls -a



pwd

Create a new directory:

mkdir [directory]

Remove a file:

rm [file name]

Remove a directory recursively:

rm -r [directory name]

Recursively remove a directory without requiring confirmation:

rm -rf [directory name]

Copy the contents of one file to another file:

cp [file_name1] [file_name2]

Recursively copy the contents of one file to a second file:

cp -r [directory_name1] [directory_name2]

Rename [file_name1] to [file_name2] with the command:

mv [file_name1] [file_name2]

Create a symbolic link to a file:

ln -s /nath/to/[file name] [link name]



Create a new me.

touch [file name]

Show the contents of a file:

more [file name]

or use the cat command:

cat [file_name]

Append file contents to another file:

cat [file_name1] >> [file_name2]

Display the first 10 lines of a file with:

head [file name]

Show the last 10 lines of a file:

tail [file_name]

Encrypt a file:

gpg -c [file_name]

Decrypt a file:

gpg [file_name.gpg]

Show the number of words, lines, and bytes in a file:





Note: Want to read more about file creation? Check out an article about how to create a file in Linux using the command line.

Directory Navigation

Move up one level in the directory tree structure:

cd ..

Change directory to \$HOME:

cd

Change location to a specified directory:

cd /chosen/directory

File Compression

Archive an existing file:

tar cf [compressed_file.tar] [file_name]

Extract an archived file:

tar xf [compressed_file.tar]

Create a gzip compressed tar file by running:

tar czf [compressed_file.tar.gz]

Compress a file with the .gz extension:



File Transfer

Copy a file to a server directory securely:

scp [file_name.txt] [server/tmp]

Synchronize the contents of a directory with a backup directory using the rsync command:

rsync -a [/your/directory] [/backup/]

Users

See details about the active users:

id

Show last system logins:

last

Display who is currently logged into the system with the who command:

who

Show which users are logged in and their activity:

W

Add a new group by typing:

groupadd [group_name]

SEE DISCOUNTS



Add a user to a group:

```
usermod -aG [group_name] [user_name]
```

Temporarily **elevate user privileges** to superuser or root using the **sudo** command:

```
sudo [command_to_be_executed_as_superuser]
```

Delete a user:

```
userdel [user_name]
```

Modify user information with:

usermod



Note: If you want to learn more about users and groups, take a look at our article on how to add a user to a group in Linux.

Package Installation

List all installed packages with yum:

yum list installed

Find a package by a related keyword:

yum search [keyword]

Show package information and summary:



Install a package using the YUM package manager:

```
yum install [package name.rpm]
```

Install a package using the **DNF package manager**:

```
dnf install [package name.rpm]
```

Install a package using the APT package manager:

```
apt-get install [package_name]
```

Install an .rpm package from a local file:

```
[package_name.rpm]
rpm -i
```

Remove an .rpm package:

```
rpm -e [package name.rpm]
```

Install software from source code:

```
tar zxvf [source_code.tar.gz]
cd [source_code]
./configure
make
make install
```

Process Related

See a snapshot of active processes:

```
ps
```

Bare Metal	Cloud	now	available	at	special	prices!
------------	-------	-----	-----------	----	---------	---------

SEE DISCOUNTS



pstree

Display a memory usage map of processes:

pmap

See all running processes:

top

Terminate a Linux process under a given ID:

kill [process_id]

Terminate a process under a specific name:

pkill [proc_name]

Terminate all processes labelled "proc":

killall [proc_name]

List and resume stopped jobs in the background:

bg

Bring the most recently suspended job to the foreground:

fg

Bring a particular job to the foreground:

fg [ioh]



LIST mes opened by running processes.

lsof



Note: If you want to learn more about shell jobs, how to terminate jobs or keep them running after you log off, check out our article on how to use disown command.

System Information

Show system information:

uname -r

See kernel release information:

uname -a

Display how long the system has been running, including load average:

uptime

See system **hostname**:

hostname

Show the IP address of the system:

hostname -i

List system reboot history:

last reboot

Bare Metal Cloud now available at special prices!	SEE DISCOUNTS	×
date		
Query and change the system clock with:		
timedatectl		
Show current calendar (month and day):		
cal		
List logged in users:		
W		
See which user you are using :		
whoami		
Show information about a particular user:		
finger [username]		
Disk Usage		
You can use the df and du commands to check disk space in Linu	JX.	
See free and used space on mounted systems:		

df -h

Show **free inodes** on mounted filesystems:

df -i

Bare	Metal	Cloud	now	available	alt s	special	prices!
	000000						became.

SEE DISCOUNTS



fdisk -1

See disk usage for all files and directory:

du -ah

Show disk usage of the directory you are currently in:

du -sh

Display target mount point for all filesystem:

findmnt

Mount a device:

mount [device_path] [mount_point]

SSH Login

Connect to host as user:

ssh user@host

Securely connect to host via SSH default port 22:

ssh host

Connect to host using a particular port:

ssh -p [port] user@host

Connect to host via telnet default port 23:





Note: For a detailed explanation of SSH Linux Commands, refer to our 19 Common SSH Commands in Linux tutorial.

File Permission

Chown command in Linux changes file and directory ownership.

Assign **read**, write, and execute permission to everyone:

```
chmod 777 [file_name]
```

Give read, write, and execute permission to owner, and read and execute permission to group and others:

```
chmod 755 [file name]
```

Assign full permission to owner, and read and write permission to group and others:

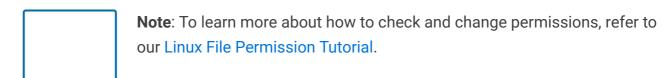
```
chmod 766 [file name]
```

Change the **ownership of a file**:

```
chown [user] [file_name]
```

Change the owner and group ownership of a file:

```
chown [user]:[group] [file_name]
```





Net-vork

List IP addresses and network interfaces:

ip addr show

Assign an IP address to interface eth0:

ip address add [IP_address]

Display IP addresses of all network interfaces with:

ifconfig

See active (listening) ports with the netstat command:

netstat -pnltu

Show tcp and udp ports and their programs:

netstat -nutlp

Display more information about a domain:

whois [domain]

Show **DNS information** about a domain using the dig command:

dig [domain]

Do a reverse lookup on domain:

dig -x host



Perform an IP lookup for a domain:

host [domain]

Show the local IP address:

hostname -I

Download a file from a domain using the wget command:

wget [file_name]

Linux Keyboard Shortcuts

Kill process running in the terminal:

Ctrl + C

Stop current process:

Ctrl + Z

The process can be **resumed** in the **foreground** with **fg** or in the **background** with **bg**.

Cut one word before the cursor and add it to clipboard:

Ctrl + W

Cut part of the line before the cursor and add it to clipboard:

Ctrl + U



Ctrl + K

Paste from clipboard:

Recall last command that matches the provided characters:

$$Ctrl + R$$

Run the previously recalled command:

$$Ctrl + 0$$

Exit command history without running a command:

Run the last command again:

Sofija Simic

50gjg៤ម៉ាត្រាំខ្មែរទីក្រាំង្សាក្រាំក្សាTechnical Writer at phoenixNAP. Alongside her educational background in teaching and writing, she has had a lifelong passion for information technology. She is committed to unscrambling confusing IT concepts and streamlining intricate software installations.

Conclusion Next you should read

The more you use Linux commands, the better you will get at remembering them. Do not eir syntax; use our cheat sheet.

SysAdmin, Web Servers

this helpful guide for the most common Linux commands.

SEE DISCOUNTS



Stop, and Kestart Services in Linux

December 6, 2019

In most modern Linux operating systems, managing a service is

SysAdmin, Web Servers

How to Check Memory Usage in Linux

June 18, 2019

In this tutorial, learn the five most commonly used commands to check...

READ MORE

SysAdmin, Web Servers

How to Remove (Delete) a File or Directory in Linux

August 8, 2019

This article lists the most commonly used commands and tools to remove...

READ MORE

Security, SysAdmin