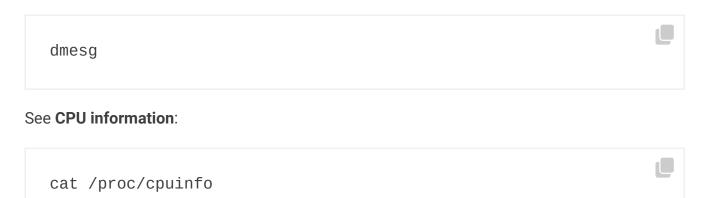


# **Linux Commands List**

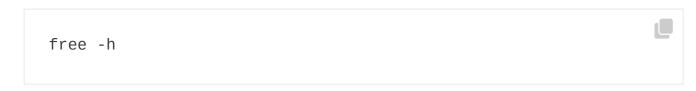
The commands found in the downloadable cheat sheet are listed below.

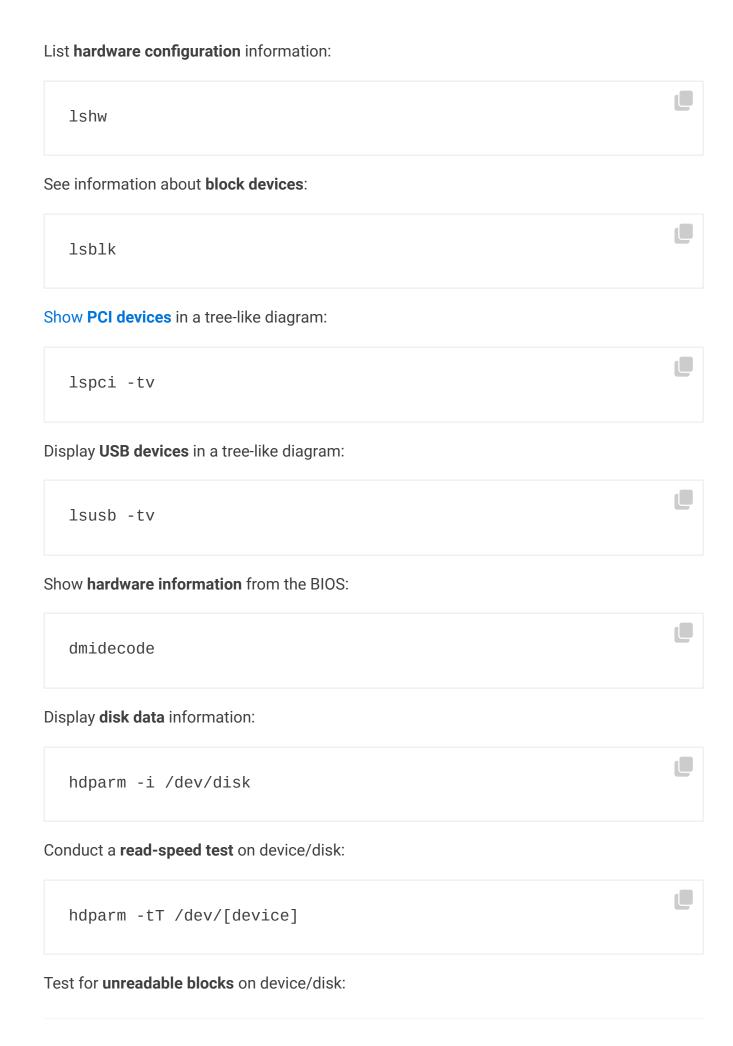
### **Hardware Information**

Show bootup messages:



Display free and used memory with:





```
badblocks -s /dev/[device]
Run a disk check on an unmounted disk or partition:
   fsck [disk-or-partition-location]
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/loc
ation] 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]
```



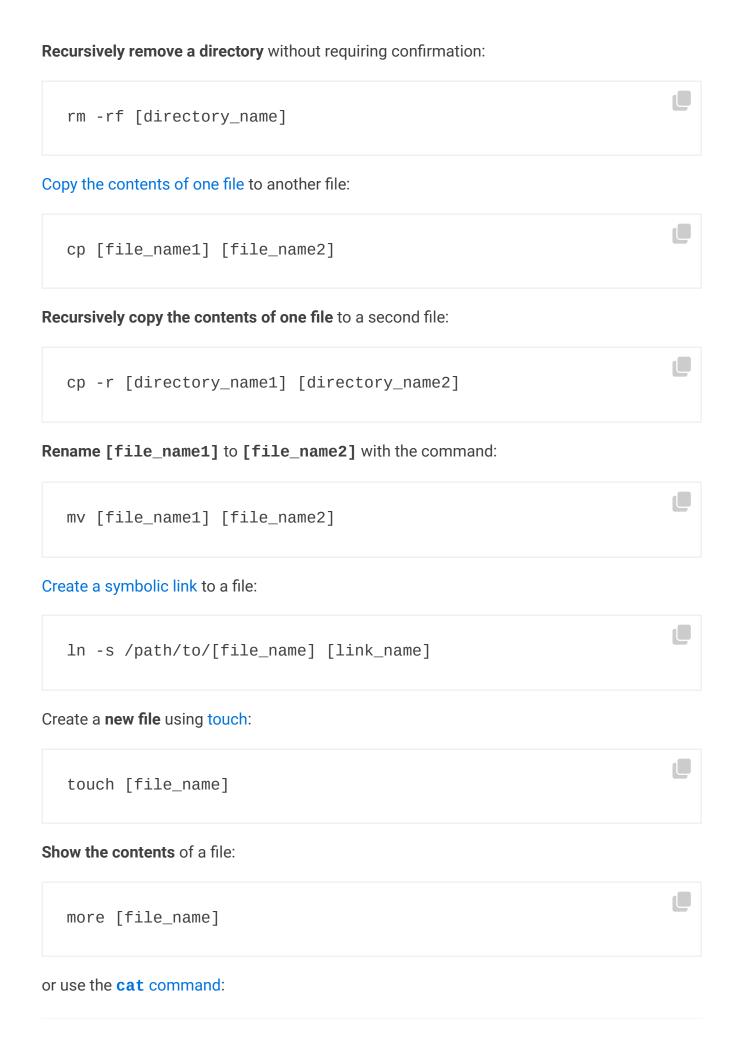
Note: Some commands are not recommended to use. Learn about them in our list of dangerous Linux commands.

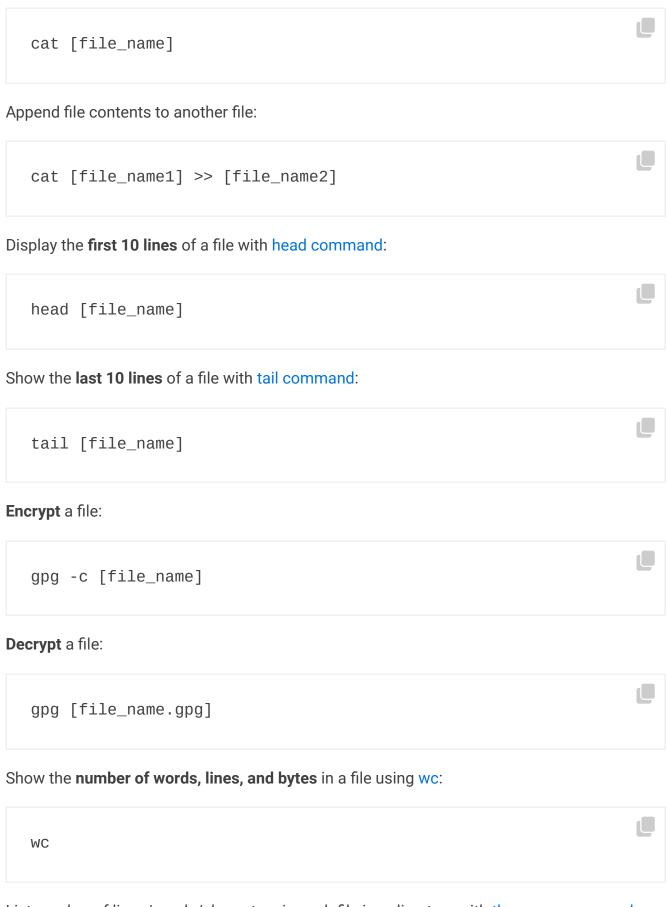
File Commands List files in the directory:	
ls	
List all files (shows hidden files):	
ls -a	
Show directory you are currently working in:	
pwd	
Create a new directory:	
mkdir [directory]	
Remove a file:	

### Remove a directory recursively:

rm [file\_name]

```
rm -r [directory_name]
```





List number of lines/words/characters in each file in a directory with the xargs command:

ls | xargs wc Cut a section of a file and print the result to standard output: cut -d[delimiter] [filename] Cut a section of piped data and print the result to standard output: [data] | cut -d[delimiter] Print all lines matching a pattern in a file: awk '[pattern] {print \$0}' [filename] Note: Learn also about gawk command, the GNU version of awk. Overwrite a file to prevent its recovery, then delete it: shred -u [filename] Compare two files and display differences: diff [file1] [file2] Read and execute the file content in the current shell:

source [filename] Sort file contents and print the result in standard output: sort [options] filename Store the command output in a file and skip the terminal output: [command] | tee [filename] >/dev/null Note: Want to read more about file creation? Check out an article about how to create a file in Linux using the command line. And if you want to find out how to determine the type of a file and its data, read our article about Linux file command. To view a file's contents one screen at a time read about less command in Linux. **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:

gzip [file\_name]



**Note:** For a more comprehensive overview of how to use **tar** refer to our guide tar Command in Linux With Examples.

### File Transfer

Copy a file to a server directory securely using the Linux scp command:

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 and Groups** 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] Add a **new user**: adduser [user\_name]

#### 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

#### Change directory group:

chgrp [group-name] [directory-name]

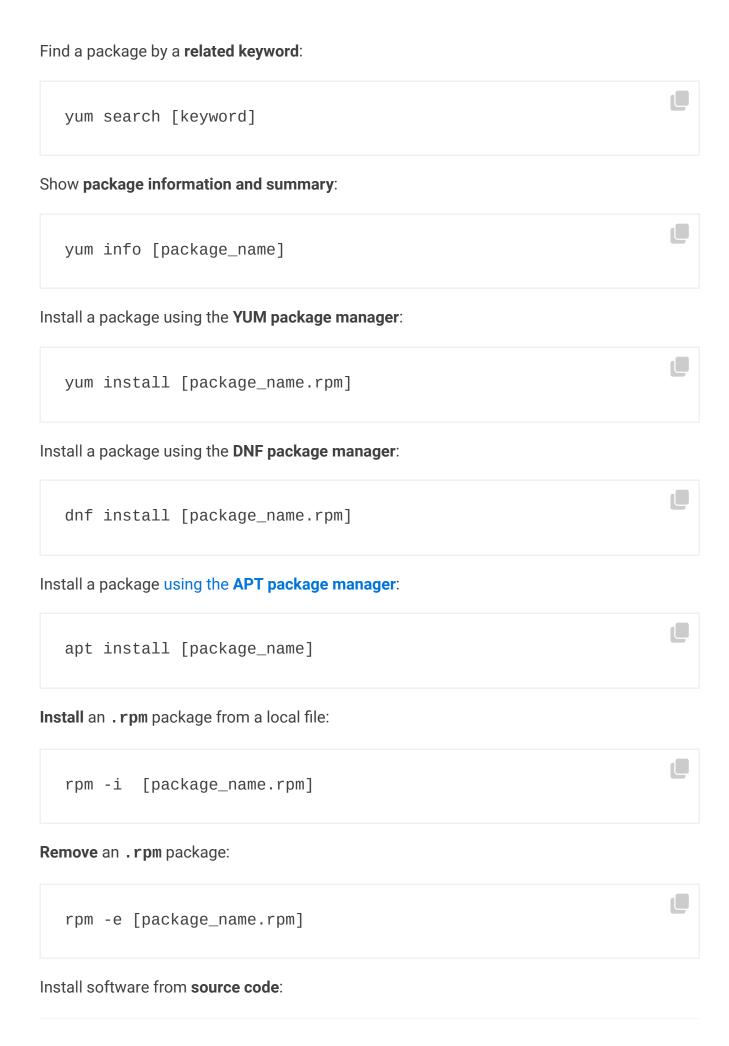


**Note:** If you want to learn more about users and groups, take a look at our article on how to add a user to a group in Linux.

## **Package Installation**

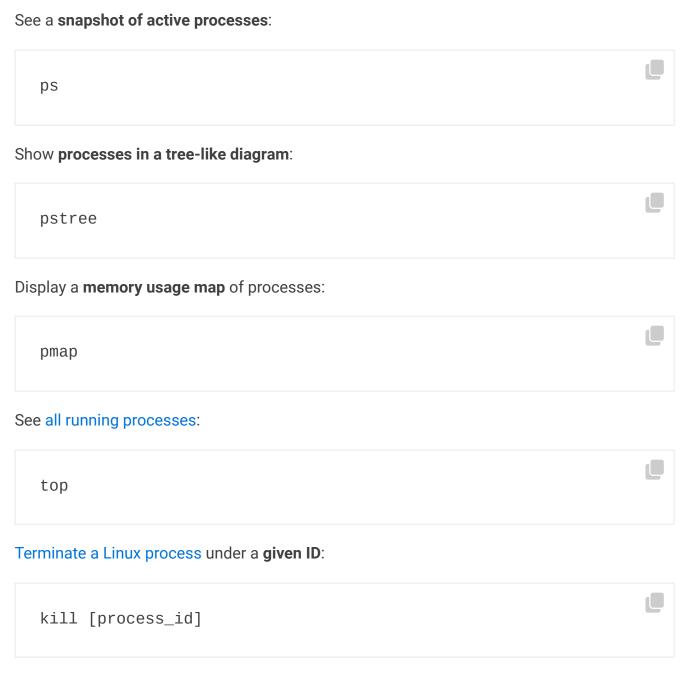
List all installed packages with yum:

yum list installed



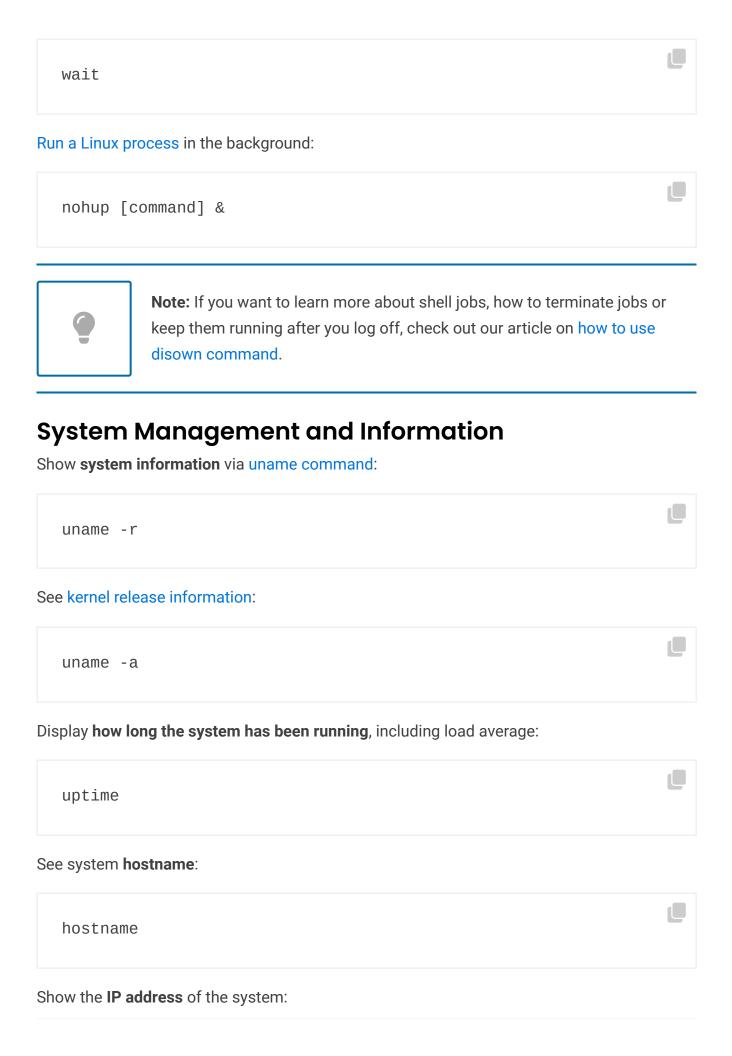
```
tar zxvf [source_code.tar.gz]
cd [source_code]
./configure
make
make install
```

### **Process Related**

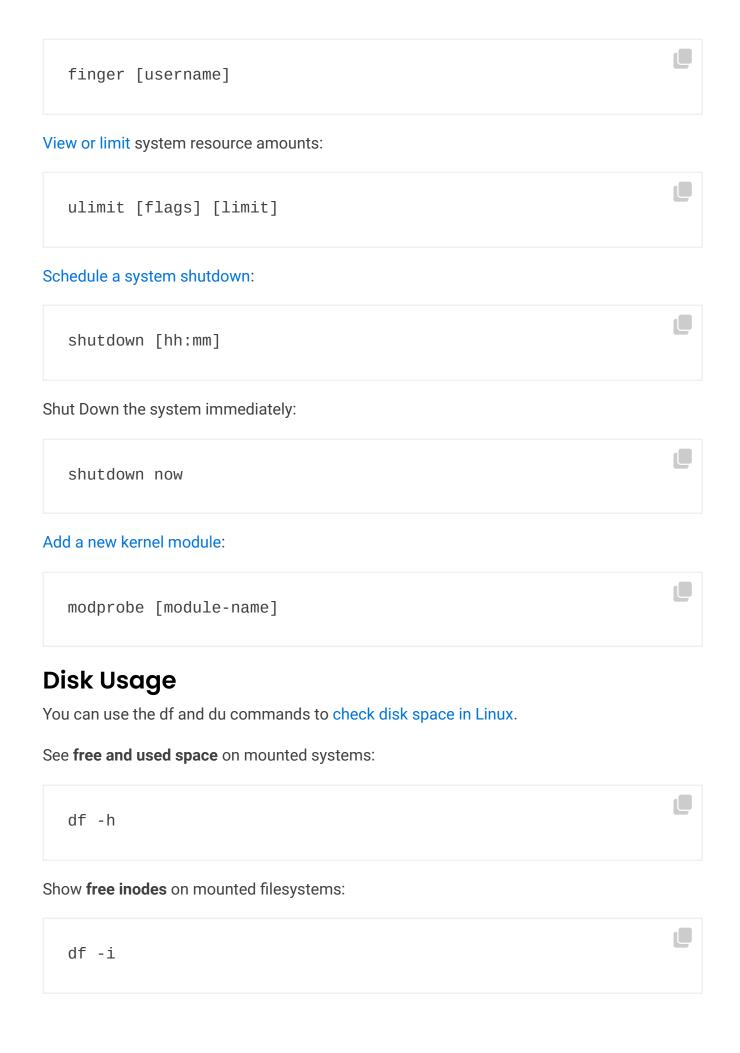


Terminate a process under a **specific name**:

pkill [proc_name]	
Terminate all processes labelled "proc":	
killall [proc_name]	
List and resume stopped jobs in the background:	
bg	
Bring the most <b>recently suspended job to the foreground</b> :	
fg	
Bring a particular job to the foreground:	
fg [job]	
List <b>files opened by running processes</b> with <b>lsof command</b> :	
lsof	
Catch a system error signal in a shell script:	
trap "[commands-to-execute-on-trapping]" [signal]	
Pause terminal or a Bash script until a running process is completed:	



hostname -i	
List system <b>reboot history</b> :	
last reboot	
See current time and date:	
date	
Query and change the system clock with:	
timedatectl	
Show current <b>calendar</b> (month and day):	
cal	
List logged in users:	
W	
See which <b>user you are using</b> :	
whoami	
Show information about a particular user:	



Display disk partitions, sizes, and types with the command: 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:

telnet host



**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:

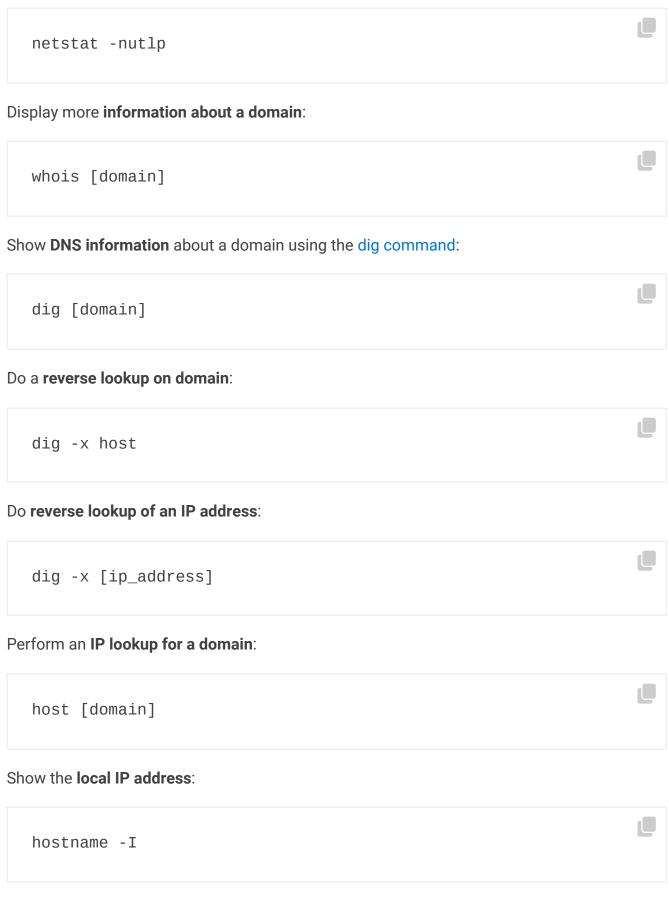
chmod 755 [file\_name]

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]
              Note: To learn more about how to check and change permissions, refer to our
              Linux File Permission Tutorial.
Network
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:
```



Download a file from a domain using the wget command:

```
wget [file_name]
Receive information about an internet domain:
   nslookup [domain-name]
Save a remote file to your system using the filename that corresponds to the filename on the
server:
   curl -0 [file-url]
Variables
Assign an integer value to a variable:
                                                                                let "[variable]=[value]"
Export a Bash variable:
   export [variable-name]
Declare a Bash variable:
   declare [variable-name]= "[value]"
List the names of all the shell variables and functions:
   set
```

Display the value of a variable:

```
echo $[variable-name]
```

### **Shell Command Management**

Create an alias for a command:

```
alias [alias-name]='[command]'
```

Set a custom interval to run a user-defined command:

```
watch -n [interval-in-seconds] [command]
```

Postpone the execution of a command:

```
sleep [time-interval] && [command]
```

Create a job to be executed at a certain time (**Ctrl+D** to exit prompt after you type in the command):

```
at [hh:mm]
```

Display a built-in manual for a command:

```
man [command]
```

Print the history of the commands you used in the terminal:

history	
Linux Keyboard Shortcuts  Kill process running in the terminal:	
Ctrl + C	
Stop current process:	
Ctrl + Z	
The process can be <b>resumed</b> in the <b>foreground</b> with <b>fg</b> or in the <b>background</b> with <b>bg</b> .	
Cut <b>one word before the cursor</b> and add it to clipboard:	
Ctrl + W	
Cut <b>part of the line before the cursor</b> and add it to clipboard:	
Ctrl + U	
Cut part of the line after the cursor and add it to clipboard:	
Ctrl + K	
Paste from clipboard:	
Ctrl + Y	

**Recall last command** that matches the provided characters: Ctrl + R Run the previously recalled command: Ctrl + 0Exit command history without running a command: Ctrl + G Run the last command again: Ιİ Log out of current session: exit Conclusion The more you use Linux commands, the better you will get at remembering them. Do not stress about memorizing their syntax; use our cheat sheet. Whenever in doubt, refer to this helpful guide for the most common Linux commands.

Was this article helpful?

Yes

No