

Linux Commands + Free Cheat Sheet

To manage a Linux remote machine like a [virtual private server](#) (VPS), system administrators commonly use a command-line interface (CLI). While some Linux distributions offer a graphical user interface (GUI), commands are more efficient and flexible with a CLI.

For example, you can replace specific entries in multiple files using a single command, which takes time in a GUI. However, using bash shell can be tricky since Linux has many commands for various tasks.

To help you get started, we will explore 60 essential Linux commands for VPS management. You will also learn tips for using a CLI and leveraging Hostinger's **VPS AI Assistant** to easily generate Linux commands.

- [The 60 Most Commonly Used Linux Commands](#)
- [Linux Commands Tips and Tricks](#)
- [Make the Most Out of Your Linux With VPS AI Assistant](#)
- [Linux Commands FAQ](#)

The 60 Most Commonly Used Linux Commands

This section will explore 60 Linux commands grouped based on their purposes, from modifying files to managing the system network settings.

Pro Tip

To run Linux commands in a remote server, connect via SSH [using PuTTY](#) or Terminal. Alternatively, Hostinger [VPS hosting](#) users can leverage our built-in [Browser terminal](#) to run the commands directly from their web browsers.

Here's a quick overview:

Command	Function
ls	Lists a directory's content
pwd	Shows the current working directory's path
cd	Changes the working directory
mkdir	Creates a new directory
rm	Deletes a file
cp	Copies files and directories, including their content
mv	Moves or renames files and directories
touch	Creates a new empty file
file	Checks a file's type
zip and unzip	Creates and extracts a ZIP archive
tar	Archives files without compression in a TAR format
nano, vi, and jed	Edits a file with a text editor
cat	Lists, combines, and writes a file's content as a standard output
grep	Searches a string within a file
sed	Finds, replaces, or deletes patterns in a file
head	Displays a file's first ten lines
tail	Prints a file's last ten lines
awk	Finds and manipulates patterns in a file
sort	Reorders a file's content
cut	Sections and prints lines from a file
diff	Compares two files' content and their differences
tee	Prints command outputs in Terminal and a file
locate	Finds files in a system's database

find	Outputs a file or folder's location
sudo	Runs a command as a superuser
su	Runs programs in the current shell as another user
chmod	Modifies a file's read, write, and execute permissions
chown	Changes a file, directory, or symbolic link's ownership
useradd and userdel	Creates and removes a user account
df	Displays the system's overall disk space usage
du	Checks a file or directory's storage consumption
top	Displays running processes and the system's resource usage
htop	Works like top but with an interactive user interface
ps	Creates a snapshot of all running processes
uname	Prints information about your machine's kernel, name, and hardware
hostname	Shows your system's hostname
time	Calculates commands' execution time
systemctl	Manages system services
watch	Runs another command continuously
jobs	Displays a shell's running processes with their statuses
kill	Terminates a running process
shutdown	Turns off or restarts the system
ping	Checks the system's network connectivity
wget	Downloads files from a URL
curl	Transmits data between servers using URLs
scp	Securely copies files or directories to another system
rsync	Synchronizes content between directories or machines
ifconfig	Displays the system's network interfaces and their configurations

netstat	Shows the system's network information, like routing and sockets
tracert	Tracks a packet's hops to its destination
nslookup	Queries a domain's IP address and vice versa
dig	Displays DNS information, including record types
history	Lists previously run commands
man	Shows a command's manual
echo	Prints a message as a standard output
ln	Links files or directories
alias and unalias	Sets and removes an alias for a file or command
cal	Displays a calendar in Terminal
apt-get	Manages Debian-based distros package libraries

Linux Commands for File and Directory Management

This section will explore basic Linux commands for file and directory management.

1. ls command

The **ls** command lists files and directories in your system. Here's the syntax:
`ls [/directory/folder/path]`

If you remove the path, the **ls** command will show the current working directory's content. You can modify the command using these options:

- **-R** – lists all the files in the subdirectories.
- **-a** – shows all files, including hidden ones.
- **-lh** – converts sizes to readable formats, such as **MB**, **GB**, and **TB**.

2. pwd command

The **pwd** command prints your current working directory's path,

like **/home/directory/path**. Here's the command syntax:

```
pwd [option]
```

It supports two options. The **-L** or **--logical** option prints environment variable content, including [symbolic links](#). Meanwhile, **-P** or **--physical** outputs the current directory's actual path.

3. cd command

Use the **cd** command to navigate the Linux files and directories. To use it, run this

syntax with sudo privileges:

```
cd /directory/folder/path
```

Depending on your current location, it requires either the full path or the directory name.

For example, omit **/username** from **/username/directory/folder** if you are already within it.

Omitting the arguments will take you to the home folder. Here are some navigation shortcuts:

- **cd ~[username]** – goes to another user's home directory.
- **cd ..** – moves one directory up.
- **cd-** – switches to the previous directory.

4. mkdir command

Use the **mkdir** command to create one or multiple directories and set their permissions.

Ensure you are authorized to make a new folder in the parent directory. Here's the basic

syntax:

```
mkdir [option] [directory_name]
```

To create a folder within a directory, use the path as the command parameter. For example, **mkdir music/songs** will create a **songs** folder inside **music**. Here are several common **mkdir** command options:

- **-p** – creates a directory between two existing folders. For example, **mkdir -p Music/2023/Songs** creates a new **2023** directory.
- **-m** – sets the folder permissions. For instance, enter **mkdir -m777 directory** to create a directory with read, write, and execute permissions for all users.
- **-v** – prints a message for each created directory.

5. rmdir command

Use the **rmdir** command to [delete an empty directory in Linux](#). The user must have **sudo** privileges in the parent directory. Here's the syntax:

```
rmdir [option] directory_name
```

If the folder contains a subdirectory, the command will return an error. To force delete a non-empty directory, use the **-p** option.

6. rm command

Use the **rm** command to permanently delete files within a directory. Here's the general syntax:

```
rm [filename1] [filename2] [filename3]
```

Adjust the number of files in the command according to your needs. If you encounter an error, ensure you have the **write** permission in the directory.

To modify the command, add the following options:

- **-i** – prompts a confirmation before deletion.
- **-f** – allows file removal without a confirmation.

- **-r** – deletes files and directories recursively.

Warning! Use the **rm** command with caution since deletion is irreversible. Avoid using the **-r** and **-f** options since they may wipe all your files. Always add the **-i** option to avoid accidental deletion.

7. cp command

Use the **cp** command to copy files or directories, including their content, from your current location to another. It has various use cases, such as:

- Copying one file from the current directory to another folder. Specify the file name and target path:

```
cp filename.txt /home/username/Documents
```

- Duplicating multiple files to a directory. Enter the file names and the destination path:

```
cp filename1.txt filename2.txt filename3.txt /home/username/Documents
```

- Copying a file's content to another within the same directory. Enter the source and the destination file:

```
cp filename1.txt filename2.txt
```

- Duplicating an entire directory. Pass the **-R** flag followed by the source and destination directory:

```
cp -R /home/username/Documents /home/username/Documents_backup
```

8. mv command

Use the **mv** command to move or rename files and directories. To move items, enter the file name followed by the destination directory:

```
mv filename.txt /home/username/Documents
```

Meanwhile, use the following syntax to [rename a file in Linux](#) with the **mv** command:

```
mv old_filename.txt new_filename.txt
```

9. touch command

The **touch** command lets you create an empty file in a specific directory path. Here's

the syntax:

```
touch [option] /home/directory/path/file.txt
```

If you omit the path, the command will create the item in the current folder. You can also use **touch** to generate and modify a timestamp in the Linux command line.

10. file command

The file command lets you check a file type – whether it is a text, image, or binary.

Here's the syntax:

```
file filename.txt
```

To bulk-check multiple files, list them individually or use their path if they are in the same directory. Add the **-k** option to display more detailed information and **-i** to show the file's MIME type.

11. zip, unzip commands

The **zip** command lets you compress items into a **ZIP** file with the optimal compression

ratio. Here's the syntax:

```
zip [options] zipfile file1 file2...
```

For example, this command compresses **note.txt** into **archive.zip** in the current working

directory:

```
zip archive.zip note.txt
```

Use the **unzip** command to extract the compressed file. Here's the syntax:

```
unzip [option] file_name.zip
```

12. tar command

The tar command archives multiple items into a **TAR** file – a format similar to **ZIP** with optional compression. Here's the syntax:


```
tar [options] [archive_file] [target file or directory]
```

For instance, enter the following to create a new **newarchive.tar** archive in

the **/home/user/Documents** directory:

```
tar -cvzf newarchive.tar /home/user/Documents
```

Linux Commands for Text Processing and Searching

The following section explores several Linux commands for processing and searching text.

13. nano, vi, jed commands

Linux lets users edit files using a [text editor like nano](#), **vi**, or **jed**. While most distributions include **nano** and **vi**, users must install **jed** manually. All these tools have

the same command syntax:

```
nano filename  
vi filename  
jed filename
```

If the target file doesn't exist, these editors will create one. We recommend **nano** if you want to quickly edit text files. Meanwhile, use **vi** or **jed** for scripting and programming.

14. cat command

Concatenate or **cat** is one of the most used Linux commands. It lists, combines, and

writes file content to the standard output. Here's the syntax:

```
cat filename.txt
```

There are various ways to use the **cat** command:

- **cat > file.txt** – creates a new file.
- **cat file1.txt file2.txt > file3.txt** – merges **file1.txt** with **file2.txt** and stores the output in **filename3.txt**.
- **tac file.txt** – displays content in reverse order.

15. grep command

The **global regular expression** or **grep** command lets you find a word by searching the content of a file. This Linux command prints all lines containing the matching strings, which is useful for filtering large log files.

For example, to display lines containing **blue** in the **notepad.txt** file, enter:

```
grep blue notepad.txt
```

16. sed command

The **sed** command lets you find, replace, and delete patterns in a file without using a text editor. Here's the general syntax:

```
sed [option] 'script' input_file
```

The script contains the searched regular expression pattern, the replacement string, and subcommands. Use the **s** subcommand to replace matching patterns or **d** to delete them.

At the end, specify the file containing the pattern to modify. Here's an example of a command that replaces **red** in **colors.txt** and **hue.txt** with **blue**:

```
sed 's/red/blue' colors.txt hue.txt
```

17. head command

The **head** command prints the first ten lines of a text file or piped data in your command-line interface. Here's the general syntax:

```
head [option] [file]
```

For instance, to view the first ten lines of **note.txt** in the current directory, enter:

```
head note.txt
```

The **head** command accepts several options, such as:

- **-n** – changes the number of lines printed. For example, **head -n 5** shows the first five lines.
- **-c** – prints the file's first customized number of bytes.
- **-q** – disables headers specifying the file name.

18. tail command

The **tail** command displays the last ten lines of a file, which is useful for checking new data and errors. Here's the syntax:

```
tail [option] [file]
```

For example, enter the following to show the last ten lines of the **colors.txt** file:

```
tail -n colors.txt
```

19. awk command

The **awk** command scans regular expression patterns in a file to retrieve or manipulate matching data. Here's the basic syntax:

```
awk '/regex pattern/{action}' input_file.txt
```

The action can be mathematical operations, conditional statements like **if**, output expressions such as **print**, and a **delete** command. It also contains the **\$n** notation, which refers to a field in the current line.

To add multiple actions, list them based on the execution order, separated using semicolons. For example, this command contains mathematical, conditional, and output

statements:

```
awk -F':' '{ total += $2; students[$1] = $2 } END { average = total / length(students); print "Average:", average; print "Above average:"; for (student in students) if (students[student] > average) print student }' score.txt
```

20. sort command

The **sort** command rearranges lines in a file in a specific order. It doesn't modify the actual file and only prints the result as Terminal outputs. Here's the syntax:

```
sort [option] [file]
```

By default, this command will sort the lines in alphabetical order, from A to Z. To modify the sorting, use these options:

- **-o** – redirects the command outputs to another file.
- **-r** – reverses the sorting order to descending.
- **-n** – sorts the file numerically.
- **-k** – reorders data in a specific field.

21. cut command

The **cut** command retrieves sections from a file and prints the result as Terminal outputs. Here's the syntax:

```
cut [option] [file]
```

Instead of a file, you can use data from [standard input](#). To determine how the command sections the line, use the following options:

- **-f** – selects a specific field.
- **-b** – cuts the line by a specified byte size.
- **-c** – sections the line using a specified character.
- **-d** – separates lines based on delimiters.

You can combine these options, use a range, and specify multiple values. For example, this command extracts the third to fifth field from a comma-separated list:

```
cut -d',' -f3-5 list.txt
```

22. diff command

The **diff** command compares two files' content and outputs the differences. It is used to alter a program without modifying the code. Here's the general format:

```
diff [option] file1 file2
```

Below are some acceptable options:

- **-c** – displays the difference between two files in a context form.
- **-u** – shows the output without redundant information.
- **-i** – makes the **diff** command case insensitive.

23. tee command

The **tee** command writes the user's input to Terminal's output and files. Here's the basic

syntax:

```
command | tee [option] file1
```

For example, the following pings Google and prints the output in

Terminal, **ping_result.txt**, and the **19092023.txt** file:

```
ping google.com | tee ping_result.txt 19092023.txt
```

24. locate command

The **locate** command lets you find a file in the database system. Add the **-i** option to turn off case sensitivity and an asterisk (*) to find content with multiple keywords. For

example:

```
locate -i school*note
```

The command searches for files containing **school** and **note**, regardless of their letter case.

25. find command

Use the **find** command to search for files within a specific directory. Here's the syntax:

```
find [option] [path] [expression]
```

For example, to find a file called **file1.txt** within the **directory** folder and its

subdirectories, use this command:

```
find /home -name file1.txt
```

If you omit the path, the command will search the current working directory. You can

also find directories using the following:

```
find ./ -type d -name directoryname
```

Linux Commands for User and Permission Management

Below are several Linux commands for managing the system's users and permissions.

26. sudo command

Superuser do or **sudo** is one of the most basic commands in Linux. It runs your

command with administrative or root permissions. Here's the general syntax:

```
sudo (command)
```

When you run a sudo command, Terminal will request the root password. For example,

this snippet runs **useradd** with the superuser privilege:

```
sudo useradd username
```

You can also add an option, such as:

- **-k** – invalidates the timestamp file.
- **-g** – executes commands as a specified group name or ID.
- **-h** – runs commands on the host.

Warning! Running a command with sudo privileges can modify all aspects of your system. Since misusing it may break your system, run the command with caution and only if you understand its possible repercussions.

27. su command

The **su** command lets you run a program in the Linux shell as a different user. It is

useful to connect via [SSH](#) while the root user is disabled. Here's the syntax:

```
su [options] [username [argument]]
```

Without any option or argument, this command runs through **root** and prompts you to use the **sudo** privileges temporarily. Some options are:

- **-p** – keeps the same shell environment, consisting of **HOME**, **SHELL**, **USER**, and **LOGNAME**.
- **-s** – lets you specify another shell environment to run.
- **-l** – runs a login script to switch users. It requires you to enter the user's password.

To check the current shell's user account, run the **whoami** command:

28. chmod command

The **chmod** command [modifies directory or file permissions in Linux](#). Here's the

basic syntax:

```
chmod [option] [permission] [file_name]
```

In Linux, each file is associated with three user classes – **owner**, **group member**, and **others**. It also has three permissions – **read**, **write**, and **execute**. If an owner wants

to grant all permissions to every user, the command looks like this:

```
chmod -rwxrwxrwx note.txt
```

29. [chown command](#)

The **chown** command lets you change a file, directory, or symbolic link's ownership to

the specified username. Here's the syntax:

```
chown [option] owner[:group] file(s)
```

For example, to make **linuxuser2** the owner of **filename.txt**, use:

```
chown linuxuser2 filename.txt
```

30. useradd, userdel commands

Use **useradd** to create a new Linux user account and change its password with

the **passwd** command. Here are the syntaxes:

```
useradd [option] username  
passwd username
```

Both the **useradd** and **passwd** commands require sudo privileges. To delete a user,

use the **userdel** command:

```
userdel username
```

Linux Commands for System Information and Management

This section will list common Linux commands for querying system information and management.

31. df command

Use the **df** command to [check a Linux system's disk space usage](#) in percentage and

kilobyte (**KB**). Here's the syntax:

```
df [options] [file]
```

If you don't specify the item, this command will display information about every mounted file system. These are some acceptable options:

- **-m** – displays information on the file system usage in **MBs**.
- **-k** – prints file system usage in **KBs**.
- **-T** – shows the file system **type** in a new column.
-

32. du command

Use **du** to check a file or directory's storage consumption. Remember to specify the directory path when using this command, for example:

```
du /home/user/Documents
```

The **du** command has several options, such as:

- **-s** – shows the specified folder's total size.
- **-m** – provides folder and file information in **MB**.
- **-k** – displays information in **KB**.
- **-h** – informs the displayed folders and files' last modification date.

33. top command

The **top** command displays running processes and the system's real-time condition, including resource utilization. It helps identify resource-intensive processes, enabling you to disable them easily.

To run the command, enter **top** into your [command-line interface](#).

34. htop command

The **htop** command is an interactive program for monitoring system resources and server processes. Unlike **top**, it offers additional features like mouse operation and

visual indicators. Here's the command syntax:

```
htop [options]
```

It supports options such as:

- **-d** – shows the delay between updates in tenths of seconds.
- **-C** – enables monochrome mode.
- **-h** – displays the help message and exits.
-

35. ps command

The **ps** command creates a snapshot of all running processes in your system. Executing it without an option or argument will list the running processes in the shell with the following information:

- Unique process ID (**PID**).
- Type of the terminal (**TTY**).
- Running time (**TIME**).
- Command that launches the process (**CMD**).

The **ps** command accepts several options, including:

- **-T** – displays all processes associated with the current shell session.
- **-u username** – lists processes associated with a specific user.
- **-A** – shows all the running processes.

Suggested Reading

Learn more about using **top**, **htop**, and **ps** commands to [check running processes in a Linux system](#).

36. **uname** command

The **uname** or **unix name** command prints information about your machine, including its hardware, system name, and Linux kernel. Here's the basic syntax:

```
uname [option]
```

While you can use it without an option, add the following to modify the command:

- **-a** – prints all the system information.
- **-s** – outputs the kernel name.
- **-n** – shows the system's node hostname.

37. **hostname** command

Run the **hostname** command to display the system's hostname. Here's the syntax:

```
hostname [option]
```

You can run it without an option or use the following:

- **-a** – displays the hostname's alias.
- **-A** – shows the machine's Fully Qualified Domain Name (FQDN).
- **-i** – outputs the machine's IP address.

38. **time** command

Use **time** to measure commands' execution time. Here's the syntax:

```
time [commandname]
```

To measure a series of commands, separate them using semicolons or double ampersands (**&&**). For example, we will measure **cd**, **touch**, and **chmod** commands'

overall execution time:

```
time cd /home/directory/path; touch bashscript.sh; chmod +x bashscript.sh
```

39. systemctl command

The **systemctl** command lets you manage installed services in your Linux system.

Here's the basic syntax:

```
systemctl [commandname] [service_name]
```

To use the command, the user must have **root** privilege. It has several use cases, including starting, restarting, and terminating a service. You can also check a service's status and dependencies.

The **systemctl** command is only available in Linux distributions with the **Systemd init system**. Check our article on [listing and managing Linux services](#) to learn more about other systems' commands.

40. watch command

The **watch** command lets the user continuously run another utility at a specific interval and print the results as a standard output. Here's the syntax:

```
watch [option] command
```

It is useful for monitoring command output changes. To modify its behavior, use the following options:

- **-d** – displays the differences between command executions.
- **-n** – changes the default two-second interval.
- **-t** – disables the header containing the time interval, command, timestamp, and hostname.

41. jobs command

The **jobs** command displays a shell's running processes with their statuses. It is only available in **cs**h, **bash**, **tc**sh, and **k**sh shells. Here's the basic syntax:

```
jobs [options] jobID
```

To check the status of jobs in the current shell, enter **jobs** without any arguments in Terminal. The command will return an empty output if your system doesn't have running jobs. You can also add the following options:

- **-l** – lists process IDs and their information.
- **-n** – shows jobs whose statuses have changed since the last notification.
- **-p** – displays process IDs only.

42. kill command

Use the **kill** command to terminate an unresponsive program using its identification number (PID). To check the PID, run the following command:

```
ps ux
```

To stop the program, enter the syntax below:

```
kill [signal_option] pid
```

There are [64 signals](#) for terminating a program, but **SIGTERM** and **SIGKILL** are the most common. **SIGTERM** is the default signal that lets the program save its progress before stopping. Meanwhile, **SIGKILL** forces programs to stop and discard unsaved progress.

43. shutdown command

The Linux **shutdown** command lets you turn off or restart your system at a specific time. Here's the syntax:

```
shutdown [option] [time] "message"
```

You can use an absolute time in a 24-hour format or a relative one like **+5** to schedule it in five minutes. The **message** is a notification sent to logged-in users about the system shutdown.

Instead of shutting down, restart the system using the **-r** option. To cancel a scheduled reboot, run the command with the **-c** option.

Linux Commands for Network Management and Troubleshooting

Here are commonly used Linux commands for managing and troubleshooting network connections.

44. ping command

The **ping** command is one of the most used commands in Linux. It lets you check whether a network or server is reachable, which is useful for troubleshooting

connectivity issues. Here's the syntax:

```
ping [option] [hostname_or_IP_address]
```

For example, run the following to check the connection and response time to **Google**:
`ping google.com`

45. wget command

Use the **wget** command to download files from the internet using **HTTP**, **HTTPS**,

or **FTP** protocols. Here's the syntax:

```
wget [option] [url]
```

For example, enter the following to download the [latest version of WordPress](https://wordpress.org/latest.zip):
`wget https://wordpress.org/latest.zip`

46. curl command

The **curl** command transfers data between servers. Its common usage is for retrieving a web page's content to your system using its URL. Here's the syntax:

```
curl [option] URL
```

However, you can add various options to modify the **curl** command behavior for other tasks. Some of the most popular ones include:

- **-o** or **-O** – downloads files from a URL.
- **-X** – changes the default HTTP GET method.
- **-H** – sends a custom header to the URL.
- **-F** – uploads a file to the specified destination.

47. scp command

The **scp** command securely copies files or directories between systems over a network.

Here's the syntax:

```
scp [option] [source username@IP]:/[directory and file name] [destination username@IP]:/[destination directory]
```

For a local machine, omit the hostname and IP address. Use the following options to modify the copying behavior:

- **-P** – changes the port for copying. The default is **22**.
- **-l** – limits the **scp** command's bandwidth.
- **-C** – compresses transferred data to make it smaller.

48. rsync command

The **rsync** command lets you sync files or folders between two destinations to ensure they have the same content. Here's the syntax:

```
rsync [options] source destination
```

If your destination or source is a folder, enter the directory path

like **/home/directory/path**. To sync a remote server, use its hostname and IP address, like **host@185.185.185.185**.

This command has various options:

- **-a** – enables archive mode to preserve file permissions, dates, and other attributes.
- **-v** – shows visual information about the transferred file.
- **-z** – compresses the transferred file data to reduce their size.

49. **ifconfig** command

The **ifconfig** command lets you list and configure your system's network interface. In newer [Linux distros](#), it is equivalent to the **ip** command. Here's the basic syntax:

```
ifconfig [interface] [option]
```

Running it without arguments displays information about all network interfaces in your system. To check a specific interface, add its name as an argument without an option.

For a more specific task, use the following options:

- **-s** – summarizes the network interfaces and their configuration. This option goes before the interface name.
- **up** and **down** – enables and disables a network interface.
- **inet** and **inet6** – assigns an IPv4 and IPv6 address to a network interface.
- **netmask** – specifies the subnet mask to use with an IPv4 address.

50. netstat command

The **netstat** command is used to display your system's network information, like sockets and routing. Here's the command syntax:
`netstat [option]`

Use various options to modify the displayed information. Some common ones are:

- **-a** – displays listening and closed sockets.
- **-t** – shows TCP connections.
- **-u** – lists UDP connections.
- **-r** – displays routing tables.
- **-i** – shows information about network interfaces.
- **-p** – lists programs' names and process IDs.
- **-c** – continuously outputs network information for real-time monitoring.

51. traceroute command

The **traceroute** command tracks a packet's path when it moves to another host over a network. It gives you information about the involved routers and travel time. Here's the syntax:

```
traceroute [option] destination
```

You can use a domain, hostname, or IP address as the destination. Add the following options for more detailed packet monitoring:

- **-m** – sets each packet's maximum hops.
- **-n** – prevents the command from resolving IP addresses to hostnames for quicker tracing.
- **-I** – changes the default UDP packets to ICMP.
- **-w** – adds a timeout in seconds.

52. nslookup command

The **nslookup** command queries a DNS server to find out the domain associated with an IP address and vice versa. Here's the syntax:

```
nslookup [options] domain-or-ip [server]
```

If you don't specify the DNS server to use, **nslookup** will use the default resolver from your system or internet service provider. This command supports various options, with some commonly used ones being:

- **-type=** – queries specific information, like the IP address type or MX record.
- **-port=** – sets the DNS server's port number for the query.
- **-retry=** – repeats the query a specific number of times upon failure.
- **-debug** – enables the debug mode to provide more information about the query.

53. dig command

The **dig** or **domain information groper** command gathers DNS data from a domain.

Unlike **nslookup**, it is more detailed and versatile. Here's the syntax:

```
dig [option] target [query_type]
```

Replace **target** with a domain name. By default, this command only shows **A** record type. Change **query_type** to check a specific type or use **ANY** to query all of them. To run a reverse DNS lookup, add the **-x** option and use the IP address as the target.

Miscellaneous Linux Commands

In this section, we will list Linux commands with various functions.

54. history command

Enter **history** to list previously executed commands. It lets you reuse the commands

without rewriting them. To use it, enter this syntax with sudo privileges:

```
history [option]
```

To rerun a specific utility, enter an exclamation mark (!) followed by the command's list

number. For example, use the following to rerun the **255th** command:

```
!255
```

This command supports many options, such as:

- **-c** – clears the history list.
- **-d offset** – deletes the history entry at the **OFFSET** position.
- **-a** – appends history lines.

55. man command

The **man** command provides a user manual of any Linux Terminal utilities, including their names, descriptions, and options. It consists of nine sections:

- Executable programs or shell commands
- System calls

- Library calls
- Games
- Special files
- File formats and conventions
- System administration commands
- Kernel routines
- Miscellaneous

Here's the command syntax:

```
man [option] [section_number] command_name
```

If you only use the command name as the parameter, Terminal displays the full user

manual. Here's an example command to query section **1** of the **ls** command manual:

```
man 1 ls
```

56. echo command

The **echo** command displays a line of text as a standard output. Here's the basic

command syntax:

```
echo [option] [string]
```

For example, you can display **Hostinger Tutorials** by entering:

```
echo "Hostinger Tutorials"
```

This command supports many options, such as:

- **-n** – displays the output without the trailing newline.
- **-e** – enables the interpretation of the following backslash escapes:
- **\b** – removes spaces in between a text.
- **\c** – produces no further output.

57. ln command

The **ln** command lets you create links between files or directories to simplify system

management. Here's the syntax:

```
ln [option] [source] [destination]
```

The command will create the target file or directory and link it to the source. By default, it creates a hard link, meaning the new item connects to the same data block as the source.

58. alias, unalias commands

The **alias** command instructs the shell to replace a string with another, allowing you to

create a shortcut for a program, file name, or text. Here's the syntax:

```
alias name=string
```

For example, enter the following to make **k** the alias for the **kill** command:

```
alias k='kill'
```

This command doesn't give any output. To check the alias associated with a command,

run the following:

```
alias command_name
```

To delete an existing alias, use the **unalias** command with the following syntax:

```
unalias [alias_name]
```

59. cal command

The **cal** command outputs a calendar in the Linux Terminal. It will show the current date

if you don't specify the month and year. Here's the syntax:

```
cal [option] [month] [year]
```

The month is in the numerical representation from **1–12**. To modify the command output, add the following options:

- **-1** – outputs the calendar in a single line.
- **-3** – shows the previous, current, and next month.

- **-A** and **-B** – displays the specified number of months after and before the current one.
- **-m** – starts the calendar with Monday instead of Sunday.

60. apt-get command

apt-get is a command line tool for handling Advanced Package Tool (APT) libraries in Debian-based Linux, like Ubuntu. It requires **sudo** or **root** privileges.

This Linux command lets you manage, update, remove, and install software, including its dependencies. Here's the main syntax:

```
apt-get [options] (command)
```

These are the most common commands to use with **apt-get**:

- **update** – synchronizes the package files from their sources.
- **upgrade** – installs the latest version of all installed packages.
- **check** – updates the package cache and checks broken dependencies.

Linux Commands Tips and Tricks

Here are some tips for using Linux commands and Terminal to improve your system management efficiency:

- Add the **-help** option to list the full usage of a command.
- Use the **exit** command to close Terminal.
- Enter the **clear** command to clean the Terminal screen.
- Press the **Tab** button to autofill after entering a command with an argument.
- Use **Ctrl + C** to terminate a running command.

- Press **Ctrl + Z** to pause a working command.
- Use **Ctrl + A** to move to the beginning of the line.
- Press **Ctrl + E** to bring you to the end of the line.
- Separate multiple commands using **semicolons (;)** or **double ampersands (&&)**.

Expert Tip

Did you know that you can edit a text file with Linux commands using SSH? Instead of editing a file locally and uploading it via FTP, you can edit the file instantly on your account using the **vim** or **nano** command.

Make the Most Out of Your Linux With VPS AI Assistant

Hostinger offers a GPT-powered **VPS AI Assistant** that lets you easily generate Linux commands to manage your server. It is available in all VPS plans and accessible from the **VPS overview** side menu in [hPanel](#).

The AI Assistant generates instructions with the required commands for your VPS management tasks. It also helps verify whether your command is correct.

To get accurate results, ensure your [AI prompts for VPS management](#) are clear and detailed. Here are several examples to start:

- How do I create and run a bash script in a **Ubuntu 22.04** server?

- What Linux command should I use to create a new user and grant them read, write, and execute permissions?
- Can you explain what the **cd** command is, its functions, and acceptable options?

Conclusion

Linux commands make system administrative tasks more efficient. They provide users with greater flexibility and the ability to use features that a graphical user interface may not offer.

Understanding how to use Linux commands in VPS is essential for interaction and management. They generally consist of three parts – a **command name**, a **flag** or **option**, and a **parameter** or **argument**.

This article has discussed various Linux commands for different tasks, such as **apt-get** to install a package, **nano** to manipulate text files, and **htop** to monitor current processes. To run them, use Terminal, an SSH client, or Hostinger's **Browser terminal**.

Other Useful Linux Commands to Learn

[How to Configure and Manage Ubuntu Firewall with the UFW Command](#)

[How to Install and Use the Linux Screen Command](#)

[How to List Users in Ubuntu with Linux Commands](#)

[How to Change Password in Linux](#)

Linux Commands FAQ

In this section, we will answer several questions about Linux commands to help you understand more about them.

How to List All Linux Commands?

Use **compgen -c, help**, or **man -k .** to list all available Linux commands in your system.

To check a command usage and its options, use **-help**. For example, enter **apt -help** to check the available options for the **apt** command.

How Do I Open Terminal in Linux?

In a GUI-based Linux, Terminal is located in the **Utility** menu or accessible using the **Ctrl + Alt + T** shortcut. For Linux servers, Terminal is opened by default after you log in to the system.

What Does the Syntax Command -option Argument Mean?

It is the typical order of a command-line utility in Unix-like operating systems like Linux. **Command** refers to the program you want to run, and **-option** modifies its behavior. Meanwhile, an argument is the input data the utility is operating on.

What Do [...] and Mean in Command Usage?

In Linux command syntax, both **[...]** and **< >** enclose placeholders. While **[...]** is used for an optional parameter, **< >** is for required components. For example, **options** are enclosed in square brackets, and **input files** are in angular ones.

Why Am I Getting a “Permission Denied” Error?

Permission denied means the command requires **root** or **superuser** privilege to run. To gain the privilege, add **sudo** at the beginning of each command or switch to the superuser using **sudo su**. If the error is related to files or directories, change their permissions using the **chmod** command.

What Do I Do if a Command Is “not found”?

If the command you enter is correct, the **not found** error message means the utility isn't installed in your Linux system. To fix it, install the command using your system's package manager, like **apt** for Debian and **dnf** for RHEL.