



Most Commonly Used Linux Commands You Should Know

Narendra K | Last Updated: July 14, 2023 | Read Time: 8 mins | [Linux Commands](#) | [6 Comments](#)

Linux is a very popular Operating System (OS) amongst programmers and regular users. One of the main reasons for its popularity is its exceptional command line support. We can manage the entire Linux operating system via command line interface (CLI) only. This allows us to accomplish complex tasks with a just few commands.

In this guide, we will discuss some commonly used commands that are useful for experienced sysadmin or a beginner. After following this guide, users will be able to operate the Linux system confidently.

For better organization, these commands are grouped under three sections – file system, networking, and system information.

Linux File System Commands

In this section, we will discuss some of the useful commands related to files and directories in Linux.

1. cat Command

The [cat command](#) is mainly used to display the file contents. It reads the content of the file and displays them on the standard output (stdout).

The common syntax of the cat command is:

```
$ cat [OPTIONS] [FILE1] [FILE2] ...
```

Let's display the contents of the `/etc/os-release` file using the `cat` command:

```
$ cat /etc/os-release
```

```
[tecmint@tecmint]$ cat /etc/os-release
NAME="Linux Mint"
VERSION="21 (Vanessa)"
ID=linuxmint
ID_LIKE="ubuntu debian"
PRETTY_NAME="Linux Mint 21"
VERSION_ID="21"
HOME_URL="https://www.linuxmint.com/"
SUPPORT_URL="https://forums.linuxmint.com/"
BUG_REPORT_URL="http://linuxmint-troubleshooting-guide.readthedocs.io/en/latest/"
PRIVACY_POLICY_URL="https://www.linuxmint.com/"
VERSION_CODENAME=vanessa
UBUNTU_CODENAME=jammy
```

[View File Content in Linux](#)

Additionally, we can also use the `-n` option of the command to display the contents with the line number:

```
$ cat -n /etc/os-release
```

```
[tecmint@tecmint]$ cat -n /etc/os-release
 1 NAME="Linux Mint"
 2 VERSION="21 (Vanessa)"
 3 ID=linuxmint
 4 ID_LIKE="ubuntu debian"
 5 PRETTY_NAME="Linux Mint 21"
 6 VERSION_ID="21"
 7 HOME_URL="https://www.linuxmint.com/"
 8 SUPPORT_URL="https://forums.linuxmint.com/"
 9 BUG_REPORT_URL="http://linuxmint-troubleshooting-guide.readthedocs.io/en/latest/"
10 PRIVACY_POLICY_URL="https://www.linuxmint.com/"
11 VERSION_CODENAME=vanessa
12 UBUNTU_CODENAME=jammy
```

[View File Content with Line Numbers](#)

2. cp Command

The [cp command](#) is useful for copying files, groups of files, and directories.

The common syntax of the `cp` command is:

```
$ cp [OPTIONS]
```

Here, the square brackets `[]` represent the optional arguments whereas angular brackets `<>` represent the essential arguments.

Let's copy the `/etc/os-release` file to the `/tmp` directory:

```
$ cp /etc/os-release /tmp/new-file.txt
```

Now, let's display the contents of the file to verify the file has been copied:

```
$ cat /tmp/new-file.txt
```

```
[tecmint@tecmint]$ cp /etc/os-release /tmp/new-file.txt
[tecmint@tecmint]$
[tecmint@tecmint]$ cat /tmp/new-file.txt
NAME="Linux Mint"
VERSION="21 (Vanessa)"
ID=linuxmint
ID_LIKE="ubuntu debian"
PRETTY_NAME="Linux Mint 21"
VERSION_ID="21"
HOME_URL="https://www.linuxmint.com/"
SUPPORT_URL="https://forums.linuxmint.com/"
BUG_REPORT_URL="http://linuxmint-troubleshooting-guide.readthedocs.io/en/latest/"
PRIVACY_POLICY_URL="https://www.linuxmint.com/"
VERSION_CODENAME=vanessa
UBUNTU_CODENAME=jammy
```

Copy File in Linux

Similarly, we can copy the directory using the `cp` command. Let's copy the `/etc/cron.d` directory inside the `/tmp` directory:

```
$ cp -r /etc/cron.d /tmp
```

We have used the `-r` option with the `cp` command, which represents the recursive operation. It copies the directory recursively which includes its files and sub-directories.

In the next example, we will see how to verify that the directory has been copied successfully.

```
$ ls /tmp/cron.d
$ ls -l /tmp/cron.d
```

```
[tecmint@tecmint]$ cp -r /etc/cron.d /tmp
[tecmint@tecmint]$
[tecmint@tecmint]$ ls /tmp/cron.d
anacron e2scrub_all zfsutils-linux
[tecmint@tecmint]$
[tecmint@tecmint]$ ls -l /tmp/cron.d
total 12
-rw-r--r-- 1 jarvis jarvis 219 Sep 29 22:59 anacron
-rw-r--r-- 1 jarvis jarvis 201 Sep 29 22:59 e2scrub_all
-rw-r--r-- 1 jarvis jarvis 377 Sep 29 22:59 zfsutils-linux
```

Recursively Copy Directory in Linux

3. ls Command

The [ls command](#) is used to list the directory contents and sort files by size and last modified time in descending order.

The common syntax of the ls command is:

```
$ ls [OPTIONS] [FILE1] [FILE2] ...
```

If we don't provide any argument to the ls command then it lists the contents of the current directory.

```
$ ls
```

```
tecmin@tecmin:~$ ls
10tecmin.com      Public
bar               Screenshot_2022-09-06_12-58-24.png
bin               Screenshot_2022-09-09_11-56-04.png
cheatsheet-homebrew.pdf  sshbanner
countup.html      tar
DEBIAN            tecmint-27-09-22.tar
Desktop           tecmint-block.png
Documents         tecmint-report.png
Downloads         tecmintstats1.png
javasharedresources  tecmint-stats.png
linux-geeks       tecmintstats.png
Muscle-Diet       Templates
Pictures
```

List Current Directory Files

In the previous example, we copied the `/etc/cron.d` directory to the `/tmp` directory. Let's verify that is present there and contains the required files:

```
$ ls /tmp/cron.d
```

We can use the `-l` option with the `ls` command to display more detailed information like – file permissions, owner, timestamp, size, etc.

Let's find out more details about the files present in the `/tmp/cron.d` directory:

```
$ ls -l /tmp/cron.d
```

```
[tecmin@tecmin]$ ls /tmp/cron.d
anacron  e2scrub_all  zfsutils-linux
[tecmin@tecmin]$
[tecmin@tecmin]$ ls -l /tmp/cron.d
total 12
-rw-r--r-- 1 jarvis jarvis 219 Sep 29 22:59 anacron
-rw-r--r-- 1 jarvis jarvis 201 Sep 29 22:59 e2scrub_all
-rw-r--r-- 1 jarvis jarvis 377 Sep 29 22:59 zfsutils-linux
```

List Directory Files

4. mkdir Command

We often create a directory structure to organize the contents. In Linux, we can use the `mkdir` command to create a directory or multiple directories and set the correct permissions for the directories.

The common syntax of the `mkdir` command is:

```
$ mkdir [OPTIONS] <DIRECTORY1> <DIRECTORY2> ...
```

Let's create a directory with the name `dir-1` in the `/tmp` directory:

```
$ mkdir /tmp/dir-1
```

Now, let's verify that the directory has been created:

```
$ ls /tmp/dir-1
```

Here, we can see that the `ls` command doesn't report any error which means the directory is present there.

Sometimes, we need to create a nested directory structure for better data organization. In such cases, we can use the `-p` option of the command to create a few nested directories under the `/tmp/dir-1` directory:

```
$ mkdir -p /tmp/dir-1/dir-2/dir-3/dir-4/dir-5
```

In the above example, we have created 4 levels of the nested directories. Let's confirm it using the `ls` command:

```
$ ls -R /tmp/dir-1
```

Here, we have used the `-R` option with the command to display the directory contents in a recursive way.

```
[tecmint@tecmint]$ mkdir /tmp/dir-1
[tecmint@tecmint]$ ls /tmp/dir-1
[tecmint@tecmint]$
[tecmint@tecmint]$ mkdir -p /tmp/dir-1/dir-2/dir-3/dir-4/dir-5
[tecmint@tecmint]$
[tecmint@tecmint]$ ls -R /tmp/dir-1
/tmp/dir-1:
dir-2

/tmp/dir-1/dir-2:
dir-3

/tmp/dir-1/dir-2/dir-3:
dir-4

/tmp/dir-1/dir-2/dir-3/dir-4:
dir-5

/tmp/dir-1/dir-2/dir-3/dir-4/dir-5:
```

Create Directory in Linux

5. history Command

To audit the last executed commands, you can use the [history command](#), which displays the list of last executed commands in a terminal session.

```
$ history
```

```
[root@tecmint:~]# history
 1  passwd root
 2  useradd tecmint
 3  passwd tecmint
 4  nmtui
 5  ifconfig
 6  cd /home/tecmint/
 7  systemctl stop firewalld
 8  ping google.com
 9  ifconfig
10  ifdown enp0s3
11  ifup enp0s3
12  ifconfig
13  ping google.com
14  reboot
15  clear
16  hostnamectl set-hostname tecmint-rocky
17  exec bash
18  clear
19  yum update && yum upgrade
```

List Linux Commands History

To view the command history with a time stamp, you need to set the timestamp in bash history, run:

```
$ HISTTIMEFORMAT="%d/%m/%y %T " #Temporarily set the history ti
$ export HISTTIMEFORMAT="%d/%m/%y %T " #Permanently set the history ti
$ history
```

```
[root@tecmint:~]# HISTTIMEFORMAT="%d/%m/%y %T "
[root@tecmint:~]# export HISTTIMEFORMAT="%d/%m/%y %T "
[root@tecmint:~]# history
 1 29/09/22 14:27:13 passwd root
 2 29/09/22 14:27:13 useradd tecmint
 3 29/09/22 14:27:13 passwd tecmint
 4 29/09/22 14:27:13 nmtui
 5 29/09/22 14:27:13 ifconfig
 6 29/09/22 14:27:13 cd /home/tecmint/
 7 29/09/22 14:27:13 systemctl stop firewallld
 8 29/09/22 14:27:13 ping google.com
 9 29/09/22 14:27:13 ifconfig
10 29/09/22 14:27:13 ifdown enp0s3
11 29/09/22 14:27:13 ifup enp0s3
12 29/09/22 14:27:13 ifconfig
13 29/09/22 14:27:13 ping google.com
14 29/09/22 14:27:13 reboot
15 29/09/22 14:27:13 clear
16 29/09/22 14:27:13 hostnamectl set-hostname tecmint-rocky
17 29/09/22 14:27:13 exec bash
18 29/09/22 14:27:13 clear
19 29/09/22 14:27:13 yum update && yum upgrade
20 29/09/22 14:27:13 yum update
21 29/09/22 14:27:13 date
22 29/09/22 14:27:13 yum install wget
23 29/09/22 14:27:13 yum clean
24 29/09/22 14:27:13 yum clean all
25 29/09/22 14:27:13 yum clean
26 29/09/22 14:27:13 yum install wget
```

List Last Executed Commands with Timestamp

6. du Command

How will you check the top 10 files that are eating out your disk space? A simple one-liner script made from the [du command](#), which is primarily used for file space usage.

```
$ du -hsx * | sort -rh | head -10
```



```
[root@tecmint:~]# du -hsx * | sort -rh | head -10
1.1G    ubuntu-20.04.3-desktop-amd64.iso
143M    linux-5.1.1.tar.gz
3.3M    lua_build
1.7M    wget-log
80K     ubuntu-20.04.3-desktop-amd64.iso.1
4.0K    linux_commands
4.0K    download-linux.txt
4.0K    anaconda-ks.cfg
[root@tecmint:~]# \
```

Find Files Using Most Disk Space in Linux

Explanation of above du command options and switches.

- du – Estimate file space usage.
- -hsx – **(-h)** Human Readable Format, **(-s)** Summaries Output, **(-x)** One File Format, skip directories on other file formats.
- sort – Sort text file lines.
- -rh – **(-r)** Reverse the result of the comparison, **(-h)** to compare the human-readable format.
- head – output first n lines of file.

7. stat Command

The [stat command](#) is used to get the information about the file size, access permission, access time, and the user ID and group ID of the file.

```
$ stat anaconda-ks.cfg
```

```
[root@tecmint:~]# stat anaconda-ks.cfg
File: anaconda-ks.cfg
Size: 1283      Blocks: 8      IO Block: 4096   regular file
Device: fd00h/64768d    Inode: 201988412  Links: 1
Access: (0600/-rw-----)  Uid: (  0/      root)   Gid: (  0/      root)
Access: 2021-06-25 10:44:02.886388446 +0530
Modify: 2021-06-25 10:44:03.006388912 +0530
Change: 2021-06-25 10:44:03.006388912 +0530
Birth: 2021-06-25 10:44:02.886388446 +0530
[root@tecmint:~]# \
```

Check File Access Information in Linux

Linux Networking Commands

In this section, we will discuss some of the [networking commands](#) that beginners can use to [troubleshoot network-related issues](#).

8. ping Command

One of the very common operations performed in any network is to check if a particular host is reachable or not. We can use the [ping command](#) to check the connectivity with the other host.

The general syntax of the ping command is:

```
$ ping [OPTIONS] <destination>
```

Here, the destination can be an IP address or a Fully Qualified Domain Name (FQDN) such as google.com. Let's verify that the current system can communicate with google:

```
$ ping -c 4 google.com
```

```
tecmint@tecmint:~$ ping -c 4 google.com
PING google.com (142.250.192.78) 56(84) bytes of data.
64 bytes from bom12s16-in-f14.1e100.net (142.250.192.78): icmp_seq=1 ttl=111 time=5.31 ms
64 bytes from bom12s16-in-f14.1e100.net (142.250.192.78): icmp_seq=2 ttl=111 time=4.89 ms
64 bytes from bom12s16-in-f14.1e100.net (142.250.192.78): icmp_seq=3 ttl=111 time=5.07 ms
64 bytes from bom12s16-in-f14.1e100.net (142.250.192.78): icmp_seq=4 ttl=111 time=10.2 ms

--- google.com ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3004ms
rtt min/avg/max/mdev = 4.890/6.376/10.241/2.235 ms
```

Ping Host in Linux

In the above example, the command shows the statistics about network communication, which shows that the response is received for all four network requests (packets). It is important to note that, we have used the `-c` option with the command to limit the number of requests to be sent to the particular host.

Let's see the example when the communication between the two hosts is broken.

To simulate this scenario, we will try to reach a non-reachable IP address. In this case, it is 192.168.10.100:

```
$ ping -c 4 192.168.10.100
```

```
[tecmint@tecmint]$ ping -c 4 192.168.10.100
PING 192.168.10.100 (192.168.10.100) 56(84) bytes of data.
From 192.168.10.38 icmp_seq=1 Destination Host Unreachable
From 192.168.10.38 icmp_seq=2 Destination Host Unreachable
From 192.168.10.38 icmp_seq=3 Destination Host Unreachable
From 192.168.10.38 icmp_seq=4 Destination Host Unreachable

--- 192.168.10.100 ping statistics ---
4 packets transmitted, 0 received, +4 errors, 100% packet loss, time 3071ms
pipe 3
```

Ping IP in Linux

Here, we can see that we didn't receive a response for any network request. Hence the command reports the error – Destination Host Unreachable.

9. host Command

Sometimes, we need to find the IP address of the particular domain. To achieve this, we can use the `host` command, which performs a DNS lookup and translates FQDN to IP address and vice-versa.

The general syntax of the `host` command is:

```
$ host [OPTIONS] <destination>
```

Here, the destination can be an IP address or FQDN.

Let's find out the IP address of `google.com` using the `host` command:

```
$ host google.com
```

```
tecmin@tecmin:~$ host google.com
google.com has address 172.217.166.78
google.com has IPv6 address 2404:6800:4009:831::200e
google.com mail is handled by 10 smtp.google.com.
tecmin@tecmin:~$
```

Find IP of Domain

10. whois Command

All the details about the registered domains are stored in the centralized database and can be queried using the [whois command](#), which shows details about the particular domain.

The general syntax of the whois command is:

```
$ whois [OPTIONS] <FQDN>
```

Let's find out details of the google.com:

```
$ whois google.com
```

```
tecmin@tecmin:~$ whois google.com
Domain Name: GOOGLE.COM
Registry Domain ID: 2138514_DOMAIN_COM-VRSN
Registrar WHOIS Server: whois.markmonitor.com
Registrar URL: http://www.markmonitor.com
Updated Date: 2019-09-09T15:39:04Z
Creation Date: 1997-09-15T04:00:00Z
Registry Expiry Date: 2028-09-14T04:00:00Z
Registrar: MarkMonitor Inc.
Registrar IANA ID: 292
Registrar Abuse Contact Email: abusecomplaints@markmonitor.com
Registrar Abuse Contact Phone: +1.2086851750
Domain Status: clientDeleteProhibited https://icann.org/epp#clientDeleteProhibited
Domain Status: clientTransferProhibited https://icann.org/epp#clientTransferProhibited
Domain Status: clientUpdateProhibited https://icann.org/epp#clientUpdateProhibited
Domain Status: serverDeleteProhibited https://icann.org/epp#serverDeleteProhibited
Domain Status: serverTransferProhibited https://icann.org/epp#serverTransferProhibited
Domain Status: serverUpdateProhibited https://icann.org/epp#serverUpdateProhibited
Name Server: NS1.GOOGLE.COM
Name Server: NS2.GOOGLE.COM
Name Server: NS3.GOOGLE.COM
Name Server: NS4.GOOGLE.COM
DNSSEC: unsigned
```

Find Domain Whois Information

Here, we can see much detailed information like – domain registration/renew/expiration date, domain provider, and so on.

It is important to note that, the `whois` command is not available by default on all systems. However, we can install it using the package manager. For example, on [Debian-based distributions](#) we can install it using the [apt package manager](#):

```
$ sudo apt install whois
```

On [RHEL-based](#) and other distributions, you can install it as shown.

```
$ sudo yum install whois           [On RHEL/CentOS/Fedora and Rocky Linux/AlmaLinux]
$ sudo emerge -a net-misc/whois    [On Gentoo Linux]
$ sudo apk add whois              [On Alpine Linux]
$ sudo pacman -S whois            [On Arch Linux]
$ sudo zypper install whois        [On OpenSUSE]
```

Linux System Information Commands

In this section, we will discuss some of the commands that can provide details about the current system.

11. uptime Command

It's a very common requirement to find when the system was rebooted last time using the [uptime command](#), which tells how long the system has been running.

Let's find out the uptime of the current system:

```
$ uptime -p

12:10:57 up 2:00, 1 user, load average: 0.48, 0.60, 0.45
```

In this example, we have used the `-p` option to show the output in the pretty form.

12. free Command

Users often need to find the details about the installed, available, and used memory. This information plays an important role while troubleshooting performance issues. We can use the [free command](#) to find the details about the memory:

```
$ free -m
```

Here, we have used the `-m` option with the command which shows the output in the mebibytes.

```
[tecmint@tecmint]$ free -m
```

	total	used	free	shared	buff/cache	available
Mem:	7898	1359	229	244	6309	5990
Swap:	2047	14	2033			

Check Linux Memory Usage

In a similar way, we can use the `-g`, `-t`, and `-p` options to show the output in the gibibytes, tebibytes, and pebibytes respectively.

13. lsblk Command

Computer systems store data on block devices. Examples of block devices are Hard Disk Drives (HDD), Solid State Drives (SSD), and so on. We can use the [lsblk command](#) to display detailed information about the block devices:

```
$ lsblk
```

In this example, we can see that there is only one block device and its name is `/dev/sda`. There are three partitions created on that block device.

```
[tecmint@tecmint]$ lsblk
```

NAME	MAJ:MIN	RM	SIZE	RO	TYPE	MOUNTPOINTS
sda	8:0	0	232.9G	0	disk	
_sda1	8:1	0	1M	0	part	
_sda2	8:2	0	513M	0	part	/boot/efi
_sda3	8:3	0	232.4G	0	part	/
sr0	11:0	1	1024M	0	rom	

Check Linux Device Info

In this article, we discussed some of the commands that are useful for Linux beginners. First, we discussed the file system commands. Then we discussed networking commands. Finally, we discussed some commands that provided details about the current system.

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```
tecmin@tecmin ~/testing $ find . -type f \( -name "*.txt" -o -  
name "*.sh" -o -name "*.c" \)  
./emails.txt  
./script-1.sh  
./header.c  
./examples.txt  
./script.sh  
./expenses.txt
```

Find Multiple Filenames (File Extensions) Using 'find' Command in Linux

How to Search Files by Name or Extension Using find Command



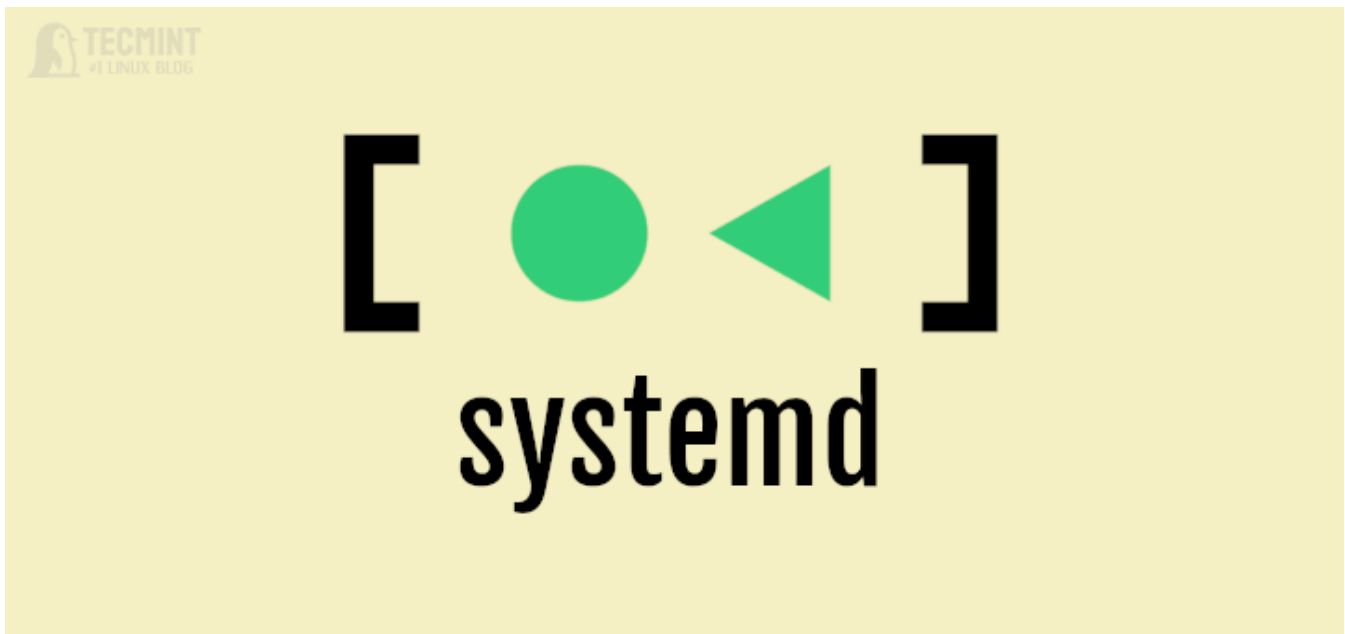
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How to Remove Systemd Services on Linux

```
TecMint.com
ravi@TecMint:~/glibc-2.39/build$
ravi@TecMint:~/glibc-2.39/build$ ../configure --prefix=/usr/local/glibc-2.39
checking build system type... x86_64-pc-linux-gnu
checking host system type... x86_64-pc-linux-gnu
checking for gcc... gcc
checking for suffix of object files... o
checking whether the compiler supports GNU C... yes
checking whether gcc accepts -g... yes
checking for gcc option to enable C11 features... none needed
checking for g++... g++
checking whether the compiler supports GNU C++... yes
checking whether g++ accepts -g... yes
checking for g++ option to enable C++11 features... none needed
checking whether g++ can link programs... yes
checking for sysdeps preconfigure fragments... aarch64 alpha arc arm csky hppa i386 loong
arch m68k microblaze checking for grep that handles long lines and -e... /usr/bin/grep
checking for egrep... /usr/bin/grep -E
mips nios2 orlk powerpc riscv s390 sh checking for grep that handles long lines and -e...
(cached) /usr/bin/grep
```

How to Install and Run Multiple glibc Libraries in Linux

 **6 Comments**

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steve edwards

November 10, 2022 at 5:56 am

```
$ export HISTTIMEFORMAT="%d/%m/%y %T " #Permanently set the history timestamp
```

It will be 'more permanent' if you add this to `.bashrc` or `.bash_aliases`.

[Reply](#)

Noradavis

October 4, 2022 at 4:05 pm

The command shows the statistics about network communication, which shows that the response is received for all four network requests (packets). It is important to note that, we have used the `y` which includes its files and sub-directories.

[Reply](#)

dragonmouth

July 9, 2021 at 11:02 pm

What is the practical application for #5 other than idle entertainment?

[Reply](#)



Pankaj Dixit

March 13, 2016 at 2:55 pm

Number – 3 is quite useful and used frequently.

[Reply](#)

Naagabaabu

March 16, 2015 at 1:32 am

In 3rd point that is `# du -hsx * | sort -rh | head -6`, you use `-rh` and you explained for `-rf`.

I think its just a mismatch....

Here `-h` is for compare human readable numbers (e.g., 2K 1G)....

[Reply](#)



Avishek Kumar

March 16, 2015 at 1:08 pm

Thanks @ Naagabaabu for pointing that out. That was a mistake on our part. Corrected in Writeup.

[Reply](#)

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