# **Ubuntu Commands**

#### 1.Uname:

The uname (UNIX name) command in Linux is a simple yet powerful tool that offers information about a Linux machine's operating system and hardware platform.

```
odoo@ICAPC0041:~$ uname
Linux
odoo@ICAPC0041:~$
```

## 2.whoami:

The whoami command in Linux displays the username of the user who is currently logged in.

```
odoo@ICAPC0041:~$ whoami
odoo
odoo@ICAPC0041:~$
```

## 3.cd:

The cd command allows you to change directories in Linux, making it easier to navigate through the file system and manage your files efficiently.

```
odoo@ICAPC0041:~$ cd test
odoo@ICAPC0041:~/test$
```

# 4.pwd:

The pwd command in Ubuntu prints the current working directory's full path.

```
odoo@ICAPC0041:~$ pwd
/home/odoo
odoo@ICAPC0041:~$
```

#### 5.ls:

The ls command in Linux lists the contents of a directory, including files and directories.

```
odoo@ICAPC0041:~$ ls
Desktop Downloads Pictures snap test
Documents Music Public Templates Videos
```

#### 6.clear:

We can clear our terminal by using shortcut `CTRL+L` or clear command.

```
odoo@ICAPC0041:~$ cd test
odoo@ICAPC0041:~$
odoo@ICAPC0041:~$ cd ...
odoo@ICAPC0041:~$ clear
```

# 7.cp:

'cp' means copy. 'cp' command is used to copy a file or a directory.

```
python developer.
odoo@ICAPC0041:~/test$ cat > f2.txt
^C
odoo@ICAPC0041:~/test$ cp f1.txt f2.t
odoo@ICAPC0041:~/test$ cat f2.txt
jay butani
python developer.
```

#### 8.cat:

The cat (concatenate) command in Linux displays file contents. It reads one or multiple files and prints their content to the terminal. cat is used to view file contents, combine files, and create new files.

```
odoo@ICAPC0041:~/test$ cat > f1.txt
jay butani
python developer.
^C
odoo@ICAPC0041:~/test$ cat f1.txt
jay butani
python developer.
```

## 9.head:

The 'head' command displays the starting content of a file. By default, it displays starting 10 lines of any file.

```
odoo@ICAPC0041:~/test$ cat f2.txt
jay butani
python developer.
a
b
c
d
e
f
g
h
i
j
k
l
odoo@ICAPC0041:~/test$ head f2.txt
jay butani
python developer.
a
b
c
d
e
f
g
h
```

## 10.tail:

Linux tail command is used to display the last ten lines of one or more files.

```
odoo@ICAPC0041:~/test$ tail f2.txt
c
d
e
f
g
h
i
j
k
l
odoo@ICAPC0041:~/test$
```

#### 11.mv:

Linux mv command is used to move existing file or directory from one location to another. It is also used to rename a file or directory. If you want to rename a single directory or file then 'mv' option will be better to use.

```
odoo@ICAPC0041:~/test$ mv f1.txt file1.txt
odoo@ICAPC0041:~/test$ ls
f2.txt file1.txt
```

## 12.touch:

The touch command in Linux is used to create empty files or update the timestamps of existing files.

```
odoo@ICAPC0041:~/test$ touch f3.txt
odoo@ICAPC0041:~/test$ cat f3.txt
```

#### 13.mkdir:

The mkdir command in Linux creates new directories, or folders, on your computer.

```
odoo@ICAPC0041:~$ mkdir test1
odoo@ICAPC0041:~$ ls
Desktop Documents Downloads Music Pictures Public snap Templates test test1 Videos
```

#### 14.rm:

The rm command in Linux is used to remove files, directories, and symbolic links from the file system.

```
odoo@ICAPC0041:~/test$ rm f3.txt
odoo@ICAPC0041:~/test$ ls
f2.txt file1.txt
```

## 15.rmdir:

The rmdir command in Linux is used to remove empty directories from a system.

```
odoo@ICAPC0041:~$ rmdir test1
odoo@ICAPC0041:~$ ls
Desktop Documents Downloads Music Pictures Public snap Templates test Videos
```

# 16.ps:

The ps command is used to view currently running processes on the system. It helps us to determine which process is doing what in our system, how much memory it is using, how much CPU space it occupies, user ID, command name, etc .

```
odoo@ICAPC0041:~/test$ ps
PID TTY TIME CMD
99427 pts/0 00:00:00 bash
103310 pts/0 00:00:<u>0</u>0 ps
```

# List of all running Process:

Command: ps -aux

```
TIME COMMAND
0:01 /sbin/init splash
0:00 [kthreadd]
0:00 [pool_workqueue_release]
0:00 [kworker/R-rcu_g]
0:00 [kworker/R-rcu_p]
                                                                                                                                                                                    VSZ RSS TTY
166812 11584 ?
0 0 ?
                                                                                                                                                                                                                                                                                                                                                                               09:34
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0:00 [kworker/R-netns]
0:00 [kworker/R-netns]
0:00 [kworker/R-netns]
0:00 [kworker/R-nm_pe]
0:00 [rcu_tasks_kthread]
0:00 [rcu_tasks_trace_kthread]
0:00 [rcu_tasks_trace_kthread]
0:00 [rcu_tasks_trace_kthread]
0:00 [kosftirqd/0]
0:00 [idle_inject/0]
0:00 [cpuhp/0]
0:00 [idle_inject/1]
0:00 [idle_inject/1]
0:00 [ksoftirqd/1]
0:00 [kworker/1:0H-events_highpri]
0:00 [cpuhp/2]
0:00 [migration/2]
0:00 [migration/2]
0:00 [kworker/2:0H-events_highpri]
0:00 [cpuhp/3]
0:00 [kworker/3:0H-events_highpri]
0:00 [migration/3]
0:00 [kworker/3:0H-events_highpri]
0:00 [kworker/3:0H-events_highpri]
0:00 [kworker/3:0H-events_highpri]
0:00 [kworker/3:0H-events_highpri]
0:00 [kworker/R-indt_3]
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0:00 [kworker/R-netns]
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```

```
0:06 /opt/google/chrome/chrome --type=renderer --string-annotations --crashpad-h
1:19 /usr/lib/thunderbird/thunderbird
0:00 /usr/libexec/gvfsd-http --spawner :1.3 /org/gtk/gvfs/exec_spaw/1
0:00 /usr/libexec/gvfsd-http --spawner :1.3 /org/gtk/gvfs/exec_spaw/2
0:00 /usr/libexec/gvfsd-network --spawner :1.3 /org/gtk/gvfs/exec_spaw/2
0:00 /usr/libexec/gvfsd-dnssd --spawner :1.3 /org/gtk/gvfs/exec_spaw/4
1:30 /opt/google/chrome/chrome --type=renderer --string-annotations --crashpad-h
0:00 /usr/libexec/gvfsd-recent --spawner :1.3 /org/gtk/gvfs/exec_spaw/5
2:09 /usr/bin/gedtt --gapplication-service
0:01 /opt/google/chrome/chrome --type=renderer --string-annotations --crashpad-h
0:02 /opt/google/chrome/chrome --type=renderer --string-annotations --crashpad-h
0:03 /opt/google/chrome/chrome --type=renderer --string-annotations --crashpad-h
0:04 /opt/google/chrome/chrome --type=renderer --string-annotations --crashpad-h
0:05 /opt/google/chrome/chrome --type=renderer --string-annotations --crashpad-h
0:06 /opt/google/chrome/chrome --type=renderer --string-annotations --crashpad-h
0:07 [kworker/usi-usi-teback]
0:08 [kworker/usi-usi-teback]
0:09 [kworker/usi-usi-teback]
0:09 [kworker/usi-usi-teback]
0:00 [kworker/usi-tevents]
0:00 [kwor
                                                                                                                                                                                                   0.6 33993664 55436 ?
2.9 1213843492 240360 ?
4.7 3418032 380524 ?
0.1 281700 11648 ?
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09:48
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0.0 0.1 388728 9088 ?
0.0 0.1 316828 9216 ?
0.0 0.1 316828 9216 ?
0.0 0.1 316780 11008 ?
0.0 0.1 316780 11008 ?
0.0 0.9 34186484 78720 ?
0.8 2.8 1212121884 230920 ?
0.0 1.4 1212098308 114048 ?
0.0 1.6 1212099508 131572 ?
0.0 1.7 1213803012 139024 ?
0.0 0.0 0 0 ?
0.0 0.0 0 ?
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0.0 0.0 0 0 ?
0.0 0.0 0 0 ?
0.1 0.7 2922368 60804 ?
0.1 0.0 0 0 ?
0.0 0.0 0 0 ?
0.0 0.0 0 0 ?
0.0 0.0 87948 4736 ?
4.0 4.5 1104816 361748 ?
1.7 2.4 1212133896 194280 ?
0.1 0.0 0 0 ?
0.0 1 0.0 0 0 ?
0.0 1 21225580 199152 ?
2.2 1212125580 199152 ?
2.0 1.8 1212097364 135188 ?
0.0 0.8 1212097364 135188 ?
0.0 0.8 1212081520 68356 ?
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16:29
```

## List processes for a specific user:

Command: ps -u user name

```
        O@ICAPC0041:~$ ps -u odoo

        PID TTY
        TIME CMD

        1404 ?
        00:00:00 systemd

        1405 ?
        00:00:00 (sd-pam)

1404 ?
1405
1405 ?
1412 ?
                          00:00:00 pipewire
1413 ?
                          00:00:00 pipewire-media-
1414 ?
                          00:00:08 pulseaudio
00:00:02 dbus-daemon
1430 ?
                         00:00:00 gnome-keyring-d
00:00:00 gvfsd
00:00:00 xdg-document-po
00:00:00 gvfsd-fuse
1440 ?
1443 ?
1446 ?
1451 ?
                         00:00:00 xdg-permission-
00:00:03 tracker-miner-f
00:00:01 gyfs-udisks2-vo
00:00:00 gyfs-goa-volume
00:00:00 goa-daemon
1456 ?
1482 ?
1497 ?
1502 ?
1506 ?
1508 tty2
                          00:00:00 gdm-wayland-ses
1511 tty2
                          00:00:00 gnome-session-b
                          00:00:00 goa-identity-se
00:00:01 gvfs-afc-volume
00:00:00 gvfs-mtp-volume
1541 ?
1553 ?
1564 ?
1564 ?
1583 ?
1596 ?
1614 ?
                          00:00:00 gvfs-gphoto2-vo
                          00:00:00 gnome-session-c
                         00:00:00 gnome-session-b
00:00:00 at-spi-bus-laun
00:20:40 gnome-shell
00:00:00 dbus-daemon
1621 ?
1628 ?
1666 ?
1672 ?
1678 ?
1683 ?
                          00:00:00 gnome-shell-cal
                          00:00:00 evolution-sourc
                          00:00:00 dconf-service
                          00:00:00 evolution-calen
                          00:00:00 evolution-addre
00:00:00 gvfsd-trash
1694 ?
1704
                          00:00:00 gjs
00:00:00 at-spi2-registr
1718
1733 ?
                          00:00:00 sh
1734 ?
                          00:00:00 gsd-a11y-settin
```

```
4232 ?
4238 ?
                                                                    00:06:32 chrome
00:00:00 cat
                                                                   00:00:00 cat
00:00:00 cat
00:00:00 chrome_crashpad
00:00:00 chrome_orashpad
00:00:00 chrome
00:00:00 chrome
00:00:00 chrome
00:00:5:57 chrome
00:01:11 chrome
    4239 ?
4241 ?
4243 ?
4249 ?
    4250 ?
4252 ?
    4252 ?
4275 ?
4280 ?
4289 ?
4456 ?
4477 ?
                                                                  00:01:11 chrome
00:00:06 chrome
00:03:45 chrome
00:01:20 thunderbird
00:00:00 gyfsd-network
00:00:00 gyfsd-network
00:01:30 chrome
00:00:00 gyfsd-dissd
00:01:30 chrome
00:00:11 gedit
00:00:11 chrome
00:01:25 chrome
00:00:00 chrome
    4610 ?
4721 ?
4721 ?
4739 ?
5172 ?
7042 ?
7281 ?
8138 ?
10405 ?
11221 ?
                                                                  00:00:00 chrome

00:00:01 chrome

00:00:06 chrome

00:00:00 gjs

00:00:01 gslsh

00:00:17 soffice.bin

00:00:05 chrome

00:00:05 chrome

00:00:12 chrome

00:00:145 chrome

00:00:145 chrome

00:00:00 chrome

00:00:00 chrome
 11250 ?
13577 ?
  13687 ?
  13703 ?
 13872 ?
13977 ?
  13987
  14016
 14167
14226
  14312
                                                                    00:00:02 eog
00:00:00 chrome
                                                                     00:00:00 ps
```

#### 17.kill:

It is used for manually terminating the processes. The behaviour of the kill command is slightly different among the shells and the /bin/kill standalone executable.

```
103310 pts/0 00:00:00 ps

odoo@ICAPC0041:~/test$ type -a kill

kill is a shell builtin

kill is /usr/bin/kill

kill is /bin/kill
```

# Kill a specific process:

Command: kill PID

#### Stop a process:

Use the pkill command with the process name. The basic syntax is pkill process name.

Command: killall -u user name

```
adoo@ICAPC0041:-$ killall -u root
systemd(1): Operation not permitted
kthreadd(2): Operation not permitted
pool workqueue_release(3): Operation not permitted
kworker/R-rcu_g(4): Operation not permitted
kworker/R-rcu_g(5): Operation not permitted
kworker/R-rcu_g(5): Operation not permitted
kworker/R-slub_(6): Operation not permitted
kworker/R-slub_(6): Operation not permitted
kworker/0:0-events(8): Operation not permitted
kworker/0:0-events(8): Operation not permitted
kworker/0:0-events(8): Operation not permitted
kworker/0:1-cgroup_destroy(10): Operation not permitted
kworker/R-nm_pe(12): Operation not permitted
rcu_tasks_tkhread(13): Operation not permitted
rcu_tasks_rude_kthread(14): Operation not permitted
rcu_tasks_rude_kthread(14): Operation not permitted
rcu_tasks_rude_kthread(15): Operation not permitted
rcu_preempt(17): Operation not permitted
rcu_preempt(17): Operation not permitted
digration/0(18): Operation not permitted
digration/0(18): Operation not permitted
didle_inject/0(0): Operation not permitted
didle_inject/0(2): Operation not permitted
didle_inject/1(22): Operation not permitted
kworker/1:0-events(25): Operation not permitted
kworker/1:0-events(25): Operation not permitted
kworker/1:0-events(25): Operation not permitted
kworker/2:0-events(31): Operation not permitted
kworker/3:0-events(31): Operation not permitted
```

#### 18.chmod & chown:

The "chmod" command modifies the read, write, and execute permissions of specified files and the search permissions of specified directories.

```
odoo@ICAPC0041:~/test$ chmod -r f2.txt
odoo@ICAPC0041:~/test$ cat f2.txt
cat: f2.txt: Permission denied
odoo@ICAPC0041:~/test$
```

Linux chown command is used to change a file's ownership, directory, or symbolic link for a user or group. The chown stands for change owner. In Linux, each file is associated with a corresponding owner or group.

## Giving access to a file:

Command: chmod +rwx filename to add permissions.

```
odoo@ICAPC0041:~/test$ chmod +r f2.txt
odoo@ICAPC0041:~/test$ cat f2.txt
jay butani
python developer.
Ь
c
d
e
g
h
i
odoo@ICAPC0041:~/test$ cat >> f2.txt
odoo@ICAPC0041:~/test$ chmod -w f2.txt
odoo@ICAPC0041:~/test$ cat >> f2.txt
bash: f2.txt: Permission denied
odoo@ICAPC0041:~/test$ chmod +w f2.txt
odoo@ICAPC0041:~/test$ cat >> f2.txt
jay
^C
```

# Changing the owner of a file or directory:

Command: chown -c ownername filename or directory

```
odoo@ICAPC0041:~/test$ chown root file1.txt
chown: changing ownership of 'file1.txt': Operation not permitted
odoo@ICAPC0041:~/test$ ^C
odoo@ICAPC0041:~/test$ cd
odoo@ICAPC0041:~$ ls -l
total 60
drwxr-xr-x 2 odoo odoo 4096 Jan 3 11:30 Desktop
drwxr-xr-x 3 odoo odoo 4096 Jan 10 11:59 Documents drwxr-xr-x 2 odoo odoo 4096 Jan 10 17:00 Downloads
drwxr-xr-x 2 odoo odoo 4096 Nov 29 13:37 Music
drwxr-xr-x 3 odoo odoo 4096 Jan 1 14:57 Pictures
drwxrwxr-x 4 odoo odoo 4096 Jan 9 16:35 Practice
drwxrwxr-x 4 odoo odoo 4096 Jan 10 10:46 practiceenv
drwxr-xr-x 2 odoo odoo 4096 Nov 29 13:37 Public
drwxrwxr-x 2 odoo odoo 4096 Jan 10 16:26 Python Practice
drwx----- 6 odoo odoo 4096 Dec 31 15:17 snap
drwxr-xr-x 2 odoo odoo 4096 Nov 29 13:37
drwxrwxr-x 2 odoo odoo 4096 Jan 2 14:49 test
drwxrwxr-x 8 odoo odoo 4096 Jan 9 16:36 trainee-jay
drwxr-xr-x 2 odoo odoo 4096 Nov 29 13:37 Videos
odoo@ICAPC0041:~$ chown -c root example.py
chown: changing ownership of 'example.py': Operation not permitted
```

# 19.apt:

apt provides a high-level Command Line Interface (CLI) for the APT package management system, offering a user-friendly interface intended for interactive use. It simplifies common tasks like installation, upgrades, and removal, with better defaults than more specialized tools like apt-get and apt-cache.

```
odoo@ICAPC0041:~/test$ sudo apt update
[sudo] password for odoo:
Get:1 https://dl.google.com/linux/chrome/deb stable InRelease [1,825 B]
Hit:2 http://in.archive.ubuntu.com/ubuntu jammy InRelease
Get:3 http://security.ubuntu.com/ubuntu jammy-security InRelease [129 kB]
Get:4 http://in.archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
Get:5 https://dl.google.com/linux/chrome/deb stable/main amd64 Packages [1,220 B]
Get:6 http://in.archive.ubuntu.com/ubuntu jammy-backports InRelease [127 kB]
Get:7 http://security.ubuntu.com/ubuntu jammy-security/main amd64 DEP-11 Metadata [43.1 kB]
Get:8 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 DEP-11 Metadata [103 kB]
Get:9 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 DEP-11 Metadata [208 B] Get:10 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 DEP-11 Metadata [125 kB]
Get:11 http://in.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 DEP-11 Metadata [212 B]
Get:12 http://in.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 DEP-11 Metadata [356 kB]
Get:13 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 DEP-11 Metadata [208 B]
Get:14 http://in.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 DEP-11 Metadata [940 B]
Get:15 http://in.archive.ubuntu.com/ubuntu jammy-backports/main amd64 DEP-11 Metadata [7,028 B]
Get:16 http://in.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 DEP-11 Metadata [212 B]
Get:17 http://in.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 DEP-11 Metadata [17.8 kB]
Get:18 http://in.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 DEP-11 Metadata [17.8 kB] Fetched 1,041 kB in 4s (292 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
93 packages can be upgraded. Run 'apt list --upgradable' to see them.
odoo@ICAPC0041:~/test$ sudo apt upgrade
```

#### 20.apt-get:

An older tool with a low-level interface that gives users more control over package management. It's a good choice for advanced users or those who need more control, or for scripting purposes. Apt-get has more options than apt, which can be useful for writing low-level scripts and tools.

# 21.history:

The history command in Linux allows users to view and manipulate the history of commands that have been entered. It can be used to quickly access and reuse previously executed commands

```
odoo@ICAPC0041:~$ history
   1 sudo apt update
   2 sudo apt install snap\
   3 sudo apt install snap
   4 sudo snap install skype
   5 sudo snap install sublime--text
   6 sudo snap install sublime- text
   7 sudo apt install sublime --text
   8 sudo apt install sublime --classic
   9 sudo apt install sublime-text
   10 sudo snap install sublime-text
      sudo snap install sublime-text --classic
   11
  12
      uname
  13
      whoami
  14 cd test
      cd Downloads
  15
      cd..
  16
  17
  18 cd/
   19 cd /
      cd //
  20
      cd Downloads
  21
   22
      cd -
   23
      cd ..
   24
      cd test
   25
      cd ..
   26
      pwd
  27
      ls
  28 clear
   29 cd test
  30 cd ...
  31 clear
  32 cd test
   33 cat f1.txt
  34 cat > f1.txt
   35 cat f1.txt
  36 cat > f2.txt
```

#### 22.nano:

Nano is a command-line text editor in Linux that can be used for basic text editing tasks.

- Open a file: Type nano filename to open the file for editing
- Save: Press Ctrl+O to save the current file
- Exit: Press Ctrl+X to exit nano

- **Move cursor**: Use the arrow keys to move the cursor
- Page navigation: Press Ctrl+V to move down one page or Ctrl+Y to move up one page
- Search: Press Ctrl+W to search for a string of text
- Cut and paste: Press Ctrl+K to cut the current line and Ctrl+U to paste the cut text
- **Select text**: Move the cursor to the beginning of the text and press Alt+a to set a selection mark
- Spell check: Install the spell package to check the spelling of a particular line

```
GNU nano 6.2
jay butani
python developer.
```

# 23.ifconfig:

The command ifconfig stands for interface configurator. This command enables us to initialize an interface, assign IP address, enable or disable an interface. It display route and network interface.

You can view IP address, MAC address and MTU (Maximum Transmission Unit) with ifconfig command.

```
OdomaiCAPC0041: $ sudo apt install net-tools
[sudo] password for odoo:
ReadIng package lists... Done
Building dependency tree... Done
Building dependency tree... Done
Building dependency tree... Done
The following NEW packages will be installed:
net-tools
O upgraded, I newly installed, 0 to remove and 93 not upgraded.
Need to get 204 kB of archives.
After this operation, 819 kB of additional disk space will be used.
Get:1 http://in.archive.ubuntu.com/ubuntu jammy/main amd64 net-tools amd64 1.60+git20181103.0eebece-1ubuntus [204 kB]
Fetched 204 kB in 1s (150 kB/s)
Selecting previously unselected package net-tools.
(Reading database ... 201958 files and directories currently installed.)
Preparing to unpack .../net-tools 1.60+git20181103.0eebece-1ubuntu5_amd64.deb ...
Unpacking net-tools (1.60+git20181103.0eebece-1ubuntu5) ...
Setting up net-tools (1.60+git20181103.0eebece-1ubuntu5)...
Processing triggers for man-db (2.10.2-1) ...
adomaicing00411-5 fictoning
eno1: flags=4163-UP_BROADCAST_RUNNING_MULTICAST> mtu 1500
inet 192.168.1.55 netmask 255.255.255.0 broadcast 192.168.1.255
inet6 fe80::cd5:65a4:4a3c:bba prefixlen 64 scopeld 0x20links
ether 44:8a:5b:7b:7b:78:e4 txqueuelen 1000 ((thernet)
RX packets 113433 bytes 11724913151 (1.1 GB)
RX errors 0 dropped 2 overruns 0 frame 0
TX packets 254298 bytes 138214929 (138.2 MB)
TX errors 0 dropped 0 overruns 0 frame 0
TX packets 25475 bytes 236968 (2.3 MB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 26075 bytes 236968 (2.3 MB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 26075 bytes 236968 (2.3 MB)
TX errors 0 dropped 0 overruns 0 frame 0
TX packets 26075 bytes 236968 (2.3 MB)
TX errors 0 dropped 0 overruns 0 frame 0
TX packets 26075 bytes 236968 (2.3 MB)
TX errors 0 dropped 0 overruns 0 frame 0
TX packets 26075 bytes 236968 (2.3 MB)
TX errors 0 dropped 0 overruns 0 frame 0
TX packets 26075 bytes 236968 (2.3 MB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

# **24.ping:**

Ping is short for Packet Internet Groper. This command is mainly used for checking the network connectivity among host/server and host. The ping command takes the URL or IP address as input and transfers the data packet to a specified address along with a "PING" message. Then, it will get a reply from the host/server. This time is known as "latency".

```
odoo@ICAPC0041:~$ ping javatpoint.com
PING javatpoint.com (104.21.32.1) 56(84) bytes of data.
64 bytes from 104.21.32.1 (104.21.32.1): icmp_seq=1 ttl=45 time=34.5 ms
64 bytes from 104.21.32.1 (104.21.32.1): icmp_seq=2 ttl=45 time=34.6 ms
64 bytes from 104.21.32.1 (104.21.32.1): icmp_seq=3 ttl=45 time=34.3 ms
64 bytes from 104.21.32.1 (104.21.32.1): icmp seq=4 ttl=45 time=34.4 ms
64 bytes from 104.21.32.1 (104.21.32.1): icmp_seq=5 ttl=45 time=34.6 ms
64 bytes from 104.21.32.1 (104.21.32.1): icmp seq=6 ttl=45 time=34.6 ms
64 bytes from 104.21.32.1 (104.21.32.1): icmp_seq=7 ttl=45 time=34.6 ms
64 bytes from 104.21.32.1 (104.21.32.1): icmp_seq=8 ttl=45 time=34.5 ms
64 bytes from 104.21.32.1 (104.21.32.1): icmp seq=9 ttl=45 time=34.3 ms
64 bytes from 104.21.32.1 (104.21.32.1): icmp_seq=10 ttl=45 time=34.6 ms
^C
--- javatpoint.com ping statistics ---
10 packets transmitted, 10 received, 0% packet loss, time 9010ms
rtt min/avg/max/mdev = 34.323/34.502/34.601/0.105 ms
```

# **Ubuntu Operators**

## 1.&:

This command sends a process/script/command to the background.

```
odoo@ICAPC0041:~$ command &
[1] 5231
odoo@ICAPC0041:~$ sleep 10 &
[2] 5233
[1] Done command
odoo@ICAPC0041:~$ command &
[3] 5234
```

#### 2.&&:

The command following this operator will only execute if the command preceding this operator has been successfully executed.

```
odoo@ICAPC0041:~$ mkdir testdir && echo "Success" || echo "Failure"
Success
odoo@ICAPC0041:~$ mkdir testdir && echo "Success" || echo "Failure"
mkdir: cannot create directory 'testdir': File exists
Failure
```

## 3.|:

The output of the first command acts as input to the second command.

```
odoo@ICAPC0041:~/test$ ls -l | grep ".*txt"
-rwxrwxr-x 1 odoo odoo 57 Jan 10 17:25 f2.txt
-rw-rw-r-- 1 odoo odoo 45 Jan 1 16:49 file1.txt
```

#### 4.>,>>,<:

Redirects the output of a command or a group of commands to a file or stream.

the ">" is the output redirection operator used for overwriting files that already exist in the directory. While, the ">>" is an output operator as well, but, it appends the data of an existing file. Often, both of these operators are used together to modify files in Linux.

```
odoo@ICAPC0041:~/test$ cat > file1.txt
jay
butani
^C
odoo@ICAPC0041:~/test$ cat file1.txt
jay
butani
odoo@ICAPC0041:~/test$ cat >> file1.txt
append
^C
odoo@ICAPC0041:~/test$ cat file1.txt
jay
butani
jay
butani
append
```

<:

The < operator is used to redirect input from a file or another source to a command. It tells command to read input from the specified file instead of the standard input.

```
odoo@ICAPC0041:~/test$ diff <(cat f2.txt) <(cat file1.txt)</pre>
1,14d0
< jay butani
< python developer.
< a
< b
< C
< d
< e
< f
< g
< h
< i
< j
< k
< l
15a2,3
> butani
> append
```

The backslash can escape spaces in file or directory names to prevent the shell from treating them as seprate arguments.

The backslash can escape single or double quotes to include them in a string.

```
odoo@ICAPC0041:/$ echo "\"Hello\" world"
"Hello" world
```

6.\*:

In the shell, \* acts as a wildcard character, matching zero or more characters in filenames or patterns. For example:

• ls \*.txt lists all files ending in .txt.

```
odoo@ICAPC0041:~/test$ ls *.txt
f2.txt file1.txt
```

In arithmetic expressions within the shell or scripts, \* represents the multiplication operator. For example:

• echo \$((2 \* 3)) outputs 6.

```
odoo@ICAPC0041:~/test$ echo $((2 * 3))
6
```

7.^:

The ^ operator is used to math the beginning of a line or string in regular expression.

```
odoo@ICAPC0041:~/test$ grep "^jay" f2.txt
jay butani
jay
```