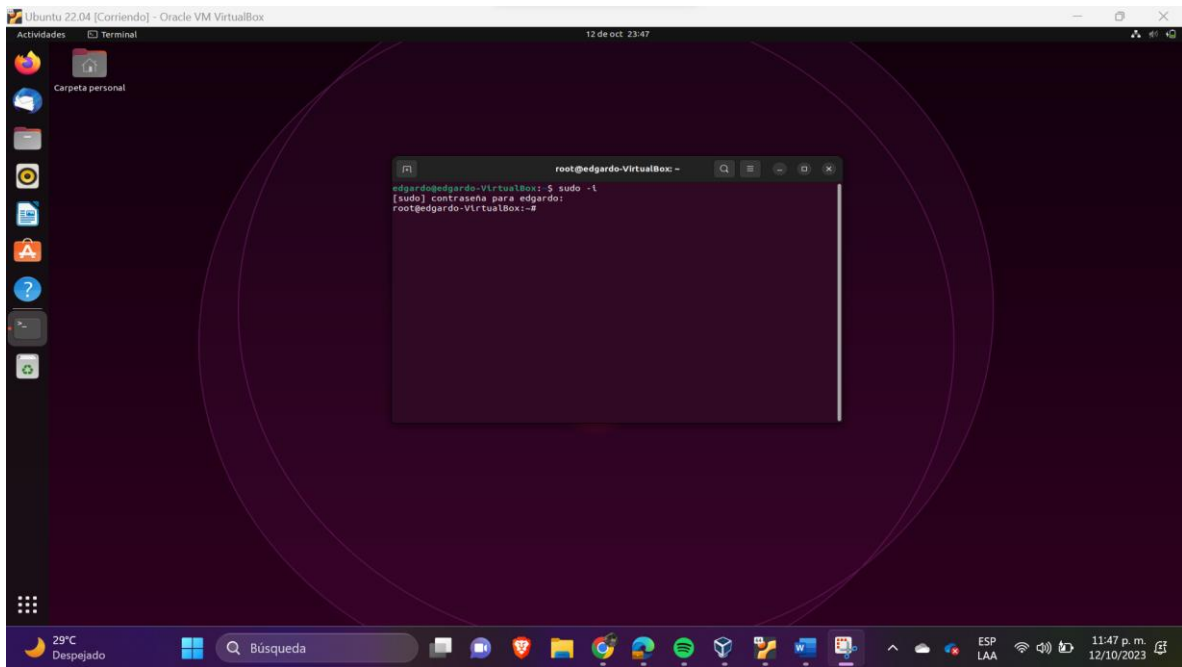
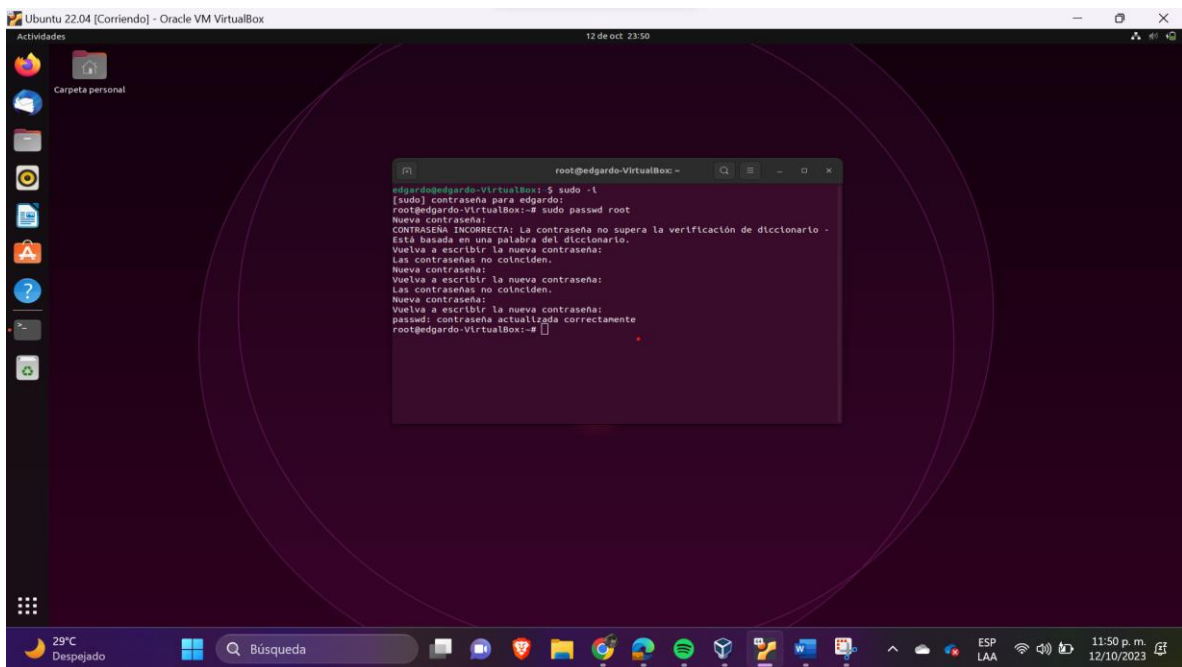


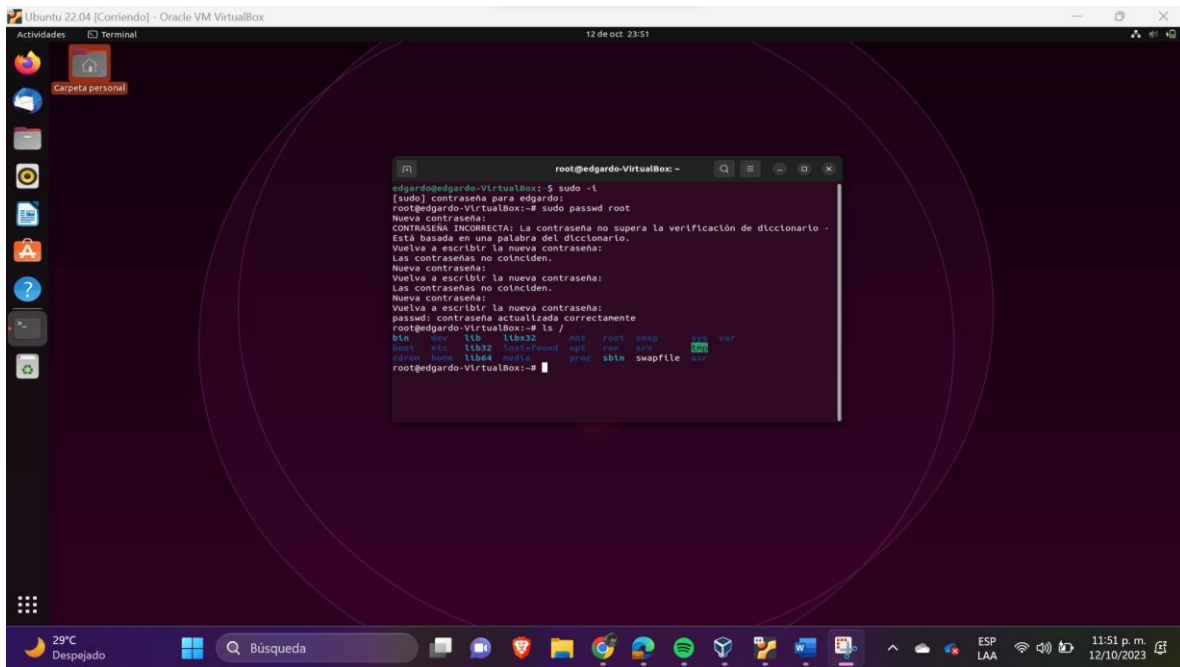
1. Asumir el prompt de superusuario



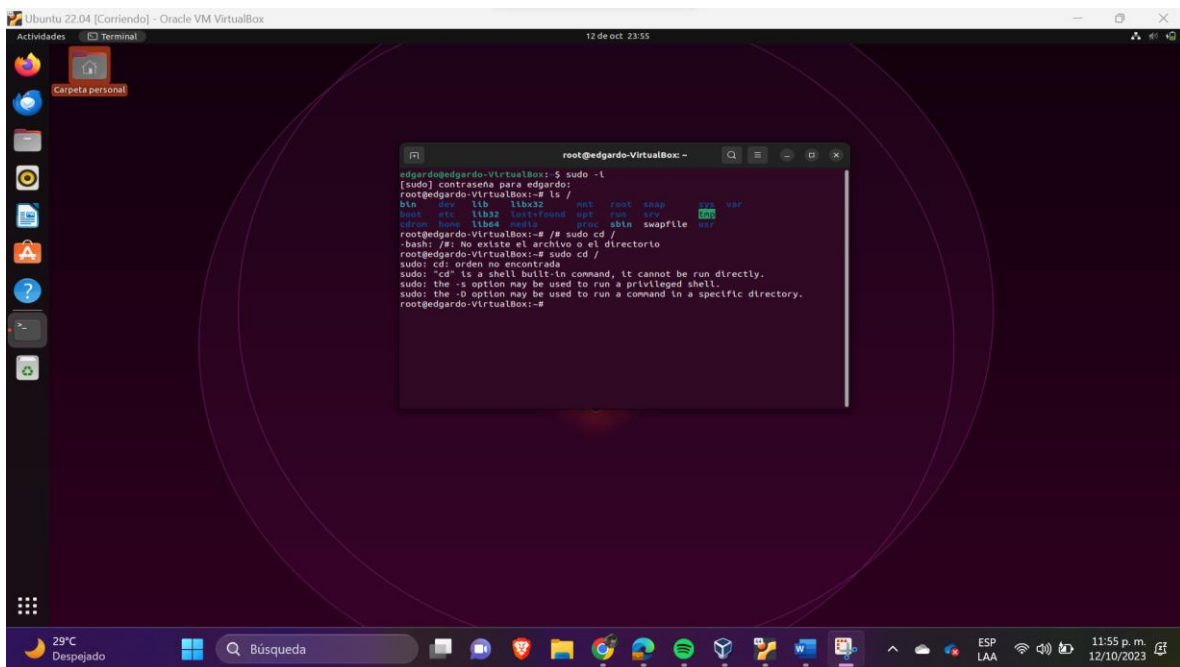
2. Cambiar el password del superusuario.



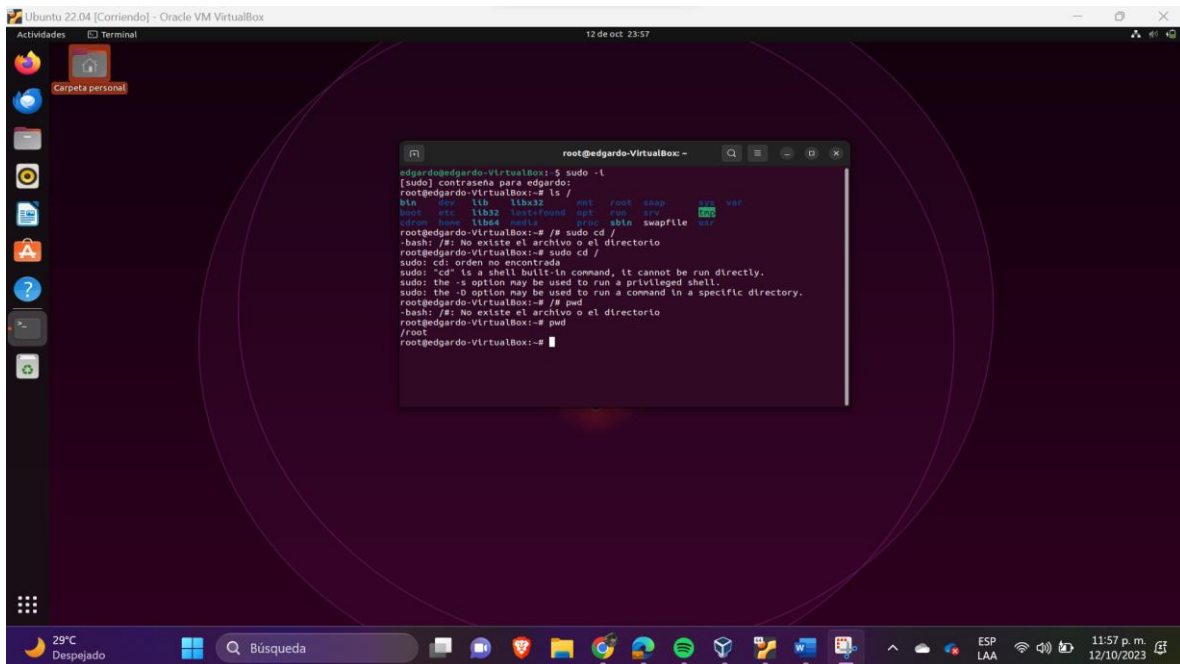
3. Listar el directorio raíz.



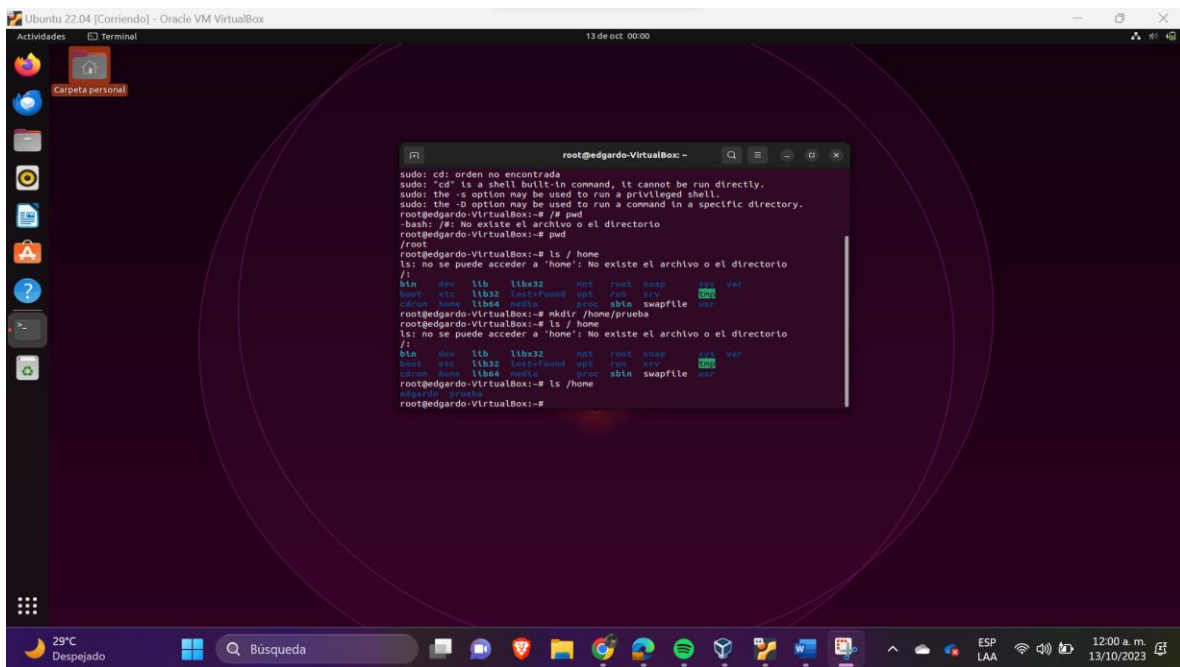
4. Cambiarse al directorio raíz.



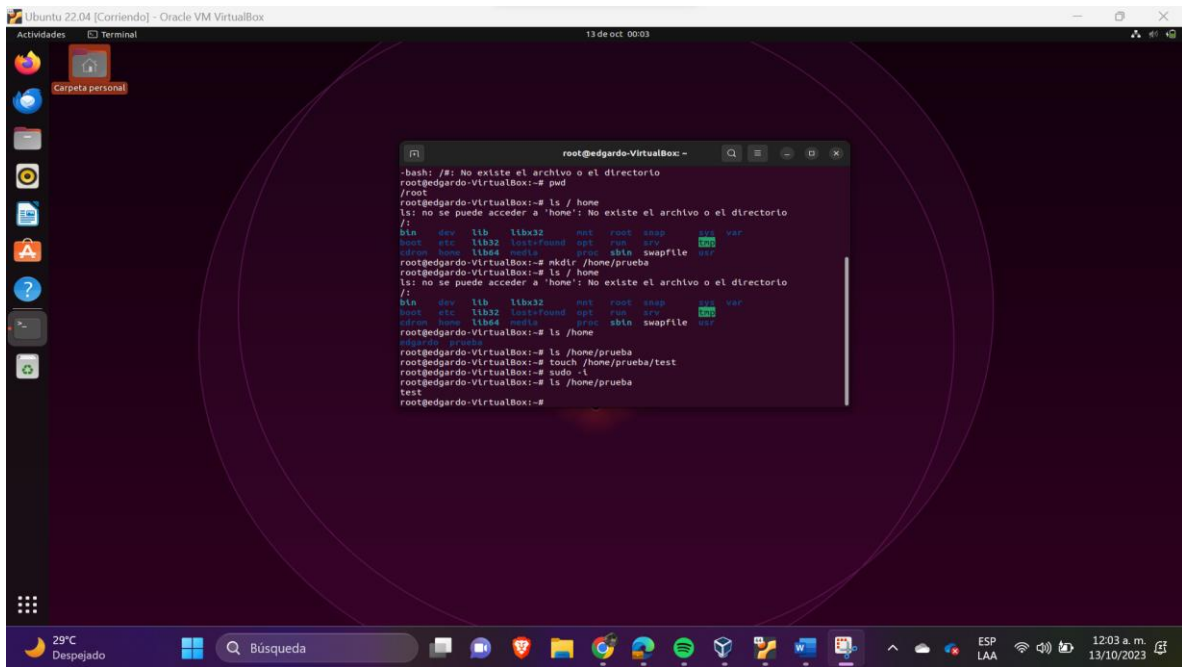
5. Verificar el directorio actual.



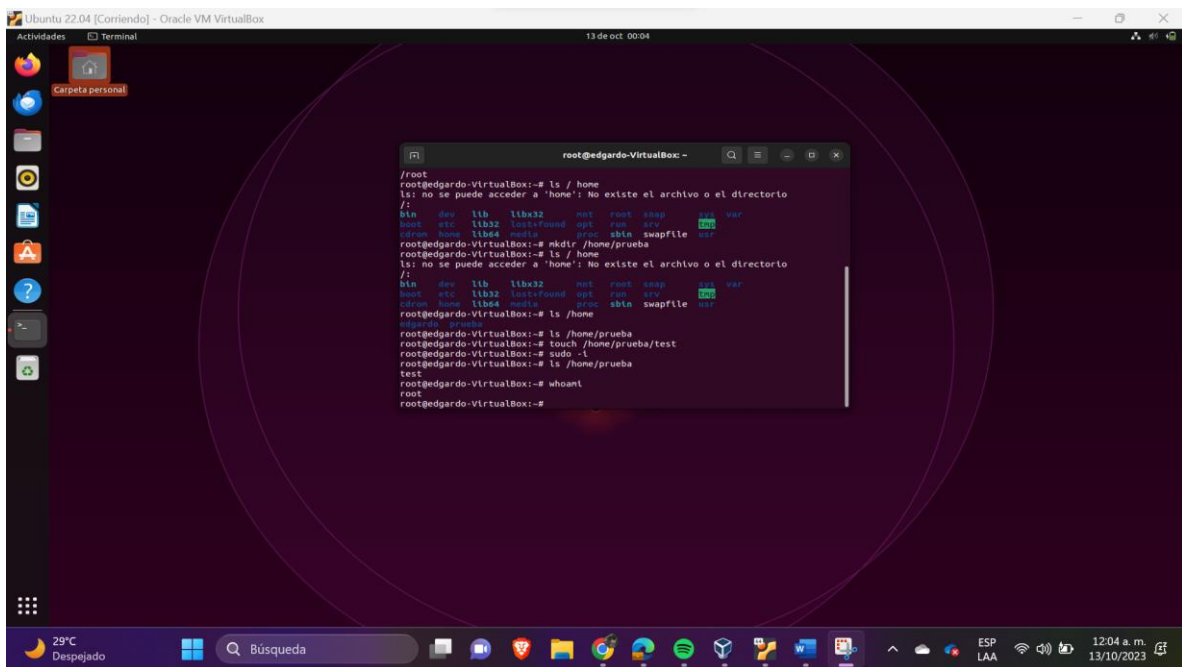
6. Crear un directorio "prueba" en /home



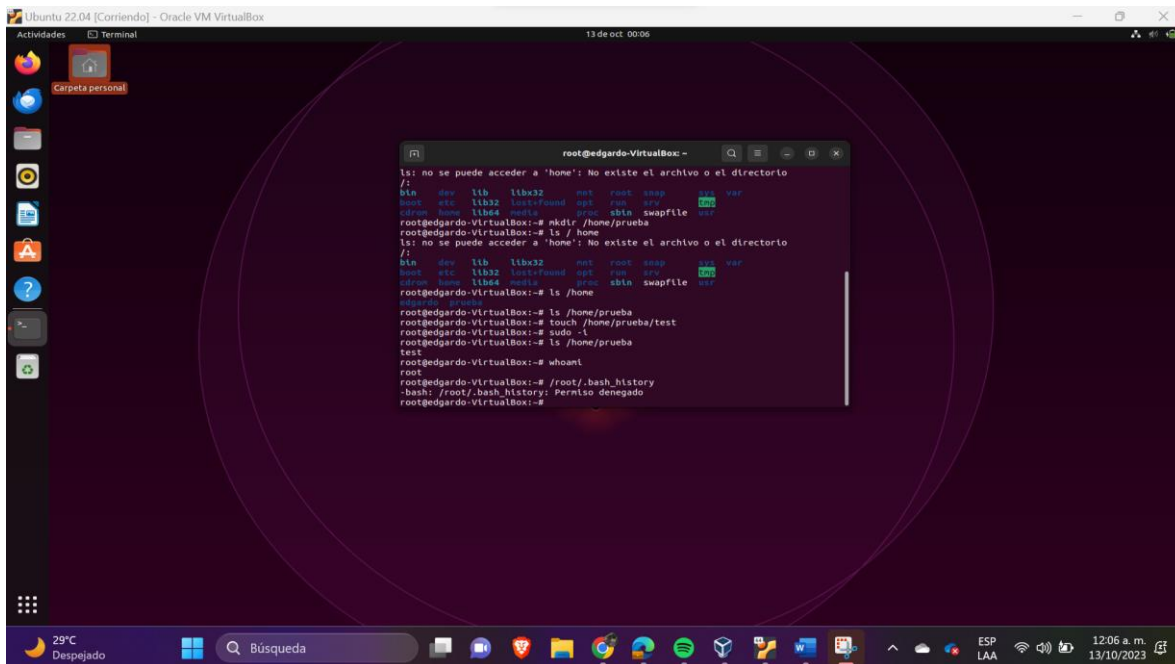
7. Crear un archivo “test” en directorio /home/prueba



8. Verificar el usuario actual.



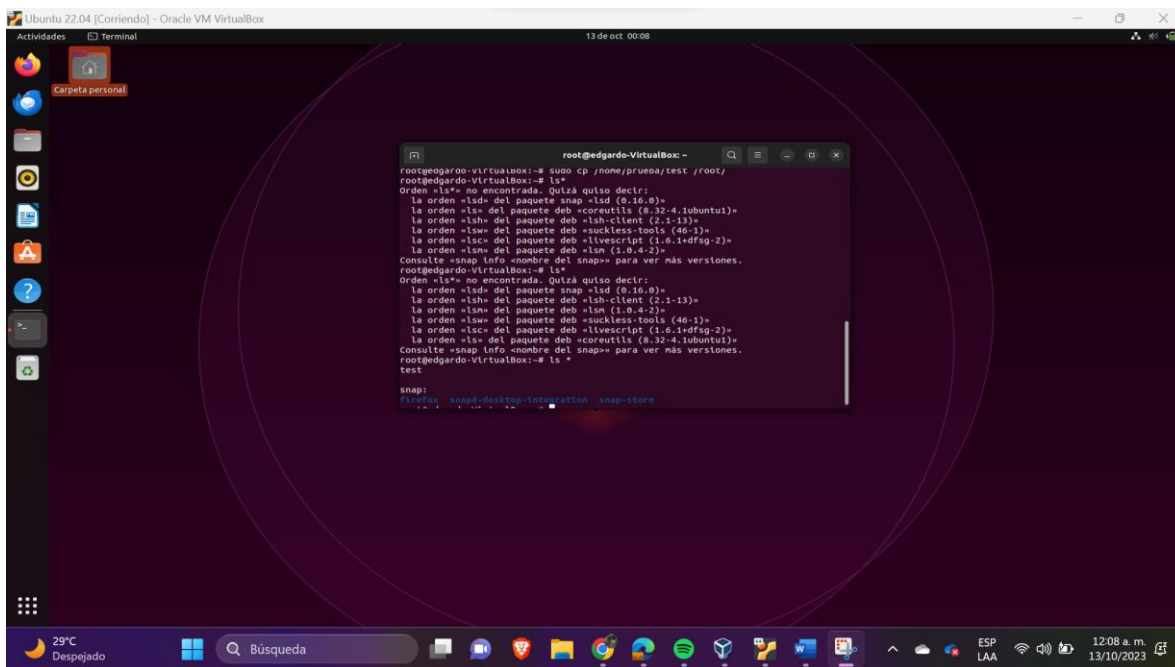
9. Mostrar el contenido del archivo /root/.bash_history.



The screenshot shows a terminal window titled "root@edgardo-VirtualBox -" with the following output:

```
ls: no se puede acceder a 'home': No existe el archivo o el directorio
/
bin      dev      lib      libx32  mnt     root    snap    tmp     var
boot    etc      lib32   lost+found  opt     run     srv
cdrom    home    lib64   media   sbin    swapfile  udev
root@edgardo-VirtualBox:~# cd /home/prueba
root@edgardo-VirtualBox:~# ls /home
ls: no se puede acceder a 'home': No existe el archivo o el directorio
/
bin      dev      lib      libx32  mnt     root    snap    tmp     var
boot    etc      lib32   lost+found  opt     run     srv
cdrom    home    lib64   media   sbin    swapfile  udev
root@edgardo-VirtualBox:~# ls /home
ls: no se puede acceder a 'home': No existe el archivo o el directorio
/
bin      dev      lib      libx32  mnt     root    snap    tmp     var
boot    etc      lib32   lost+found  opt     run     srv
cdrom    home    lib64   media   sbin    swapfile  udev
root@edgardo-VirtualBox:~# ls /home/prueba
root@edgardo-VirtualBox:~# touch /home/prueba/test
root@edgardo-VirtualBox:~# sudo ls
root@edgardo-VirtualBox:~# ls /home/prueba
test
root@edgardo-VirtualBox:~# whoami
root
root@edgardo-VirtualBox:~# /root/.bash_history
bash: /root/.bash_history: Permiso denegado
root@edgardo-VirtualBox:~#
```

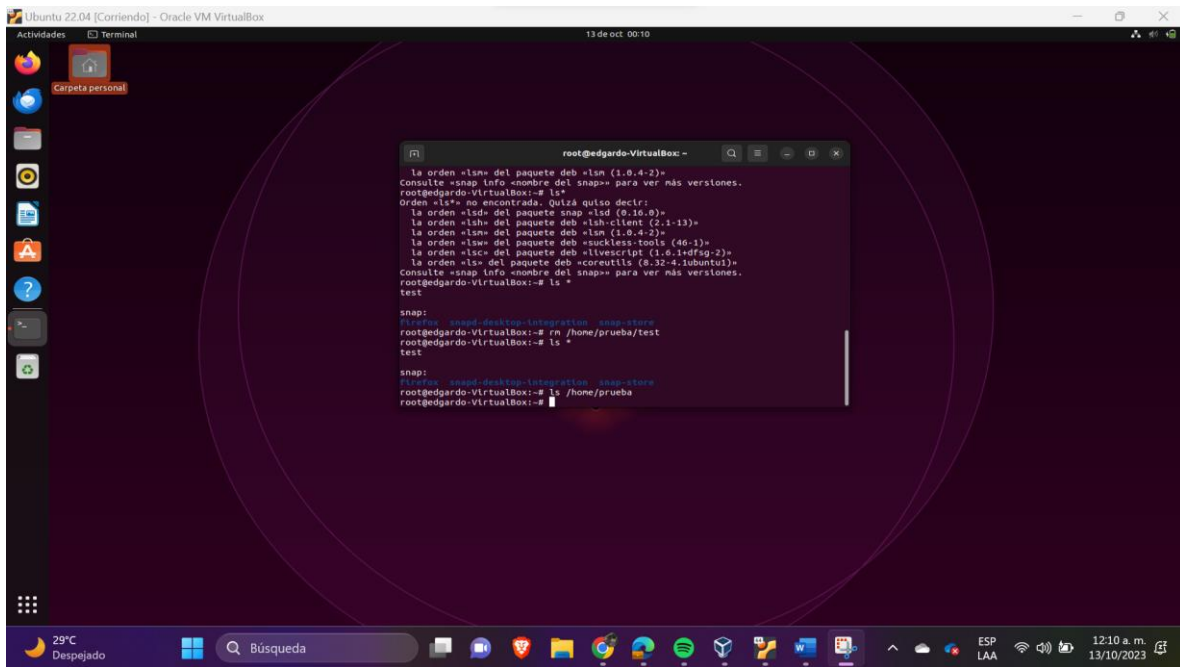
10. Copiar el archivo "test" a /root



The screenshot shows a terminal window titled "root@edgardo-VirtualBox -" with the following output:

```
root@edgardo-VirtualBox:~# sudo cp /home/prueba/test /root/
root@edgardo-VirtualBox:~# ls
Orden «ls» no encontrada. Quizá quiso decir:
la orden «ls» del paquete snap «lsd (0.16.0)»
la orden «ls» del paquete deb «coreutils (8.32-4.1ubuntu1)»
la orden «ls» del paquete deb «lsh-client (2.1-13)»
la orden «ls» del paquete deb «suckless-tools (46-1)»
la orden «ls» del paquete deb «livescript (1.6.1+dfsg-2)»
la orden «ls» del paquete deb «lsn (1.0.4-2)»
Consulte «snap info <nombre del snap>» para ver más versiones.
root@edgardo-VirtualBox:~# ls
Orden «ls» no encontrada. Quizá quiso decir:
la orden «ls» del paquete snap «lsd (0.16.0)»
la orden «ls» del paquete deb «lsh-client (2.1-13)»
la orden «ls» del paquete deb «lsn (1.0.4-2)»
la orden «ls» del paquete deb «suckless-tools (46-1)»
la orden «ls» del paquete deb «livescript (1.6.1+dfsg-2)»
la orden «ls» del paquete deb «coreutils (8.32-4.1ubuntu1)»
Consulte «snap info <nombre del snap>» para ver más versiones.
root@edgardo-VirtualBox:~# ls *
test
Snap:
lsd      snap-desktop-integration  snap-store
```

11. Eliminar el archivo “test” de /home/prueba

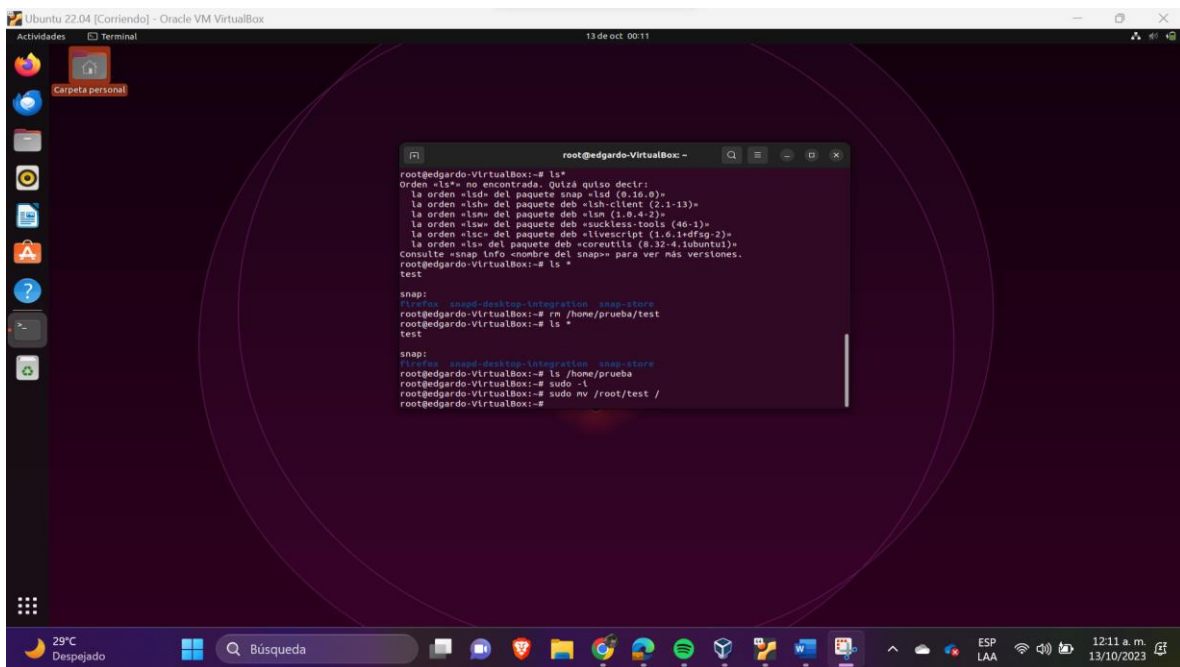


The screenshot shows a terminal window titled "root@edgardo-VirtualBox -" with the following commands and output:

```
root@edgardo-VirtualBox:~# ls
root@edgardo-VirtualBox:~# rm /home/prueba/test
root@edgardo-VirtualBox:~# ls
```

The terminal output shows the file "test" being removed from the "/home/prueba" directory. The user then lists the contents of the directory, and the file is no longer present.

12. Mover el /root/test a la raíz.

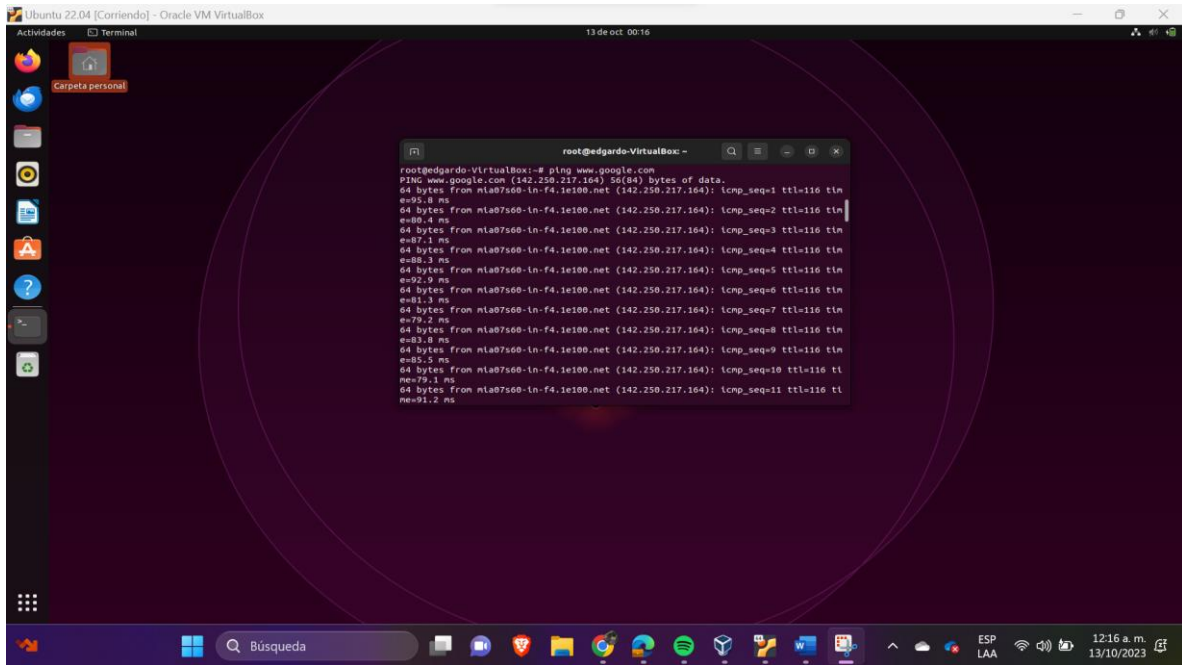


The screenshot shows a terminal window titled "root@edgardo-VirtualBox -" with the following commands and output:

```
root@edgardo-VirtualBox:~# mv /root/test /
root@edgardo-VirtualBox:~# ls
```

The terminal output shows the file "test" being moved from "/root/test" to the root directory "/". The user then lists the contents of the root directory, and the file "test" is now present.

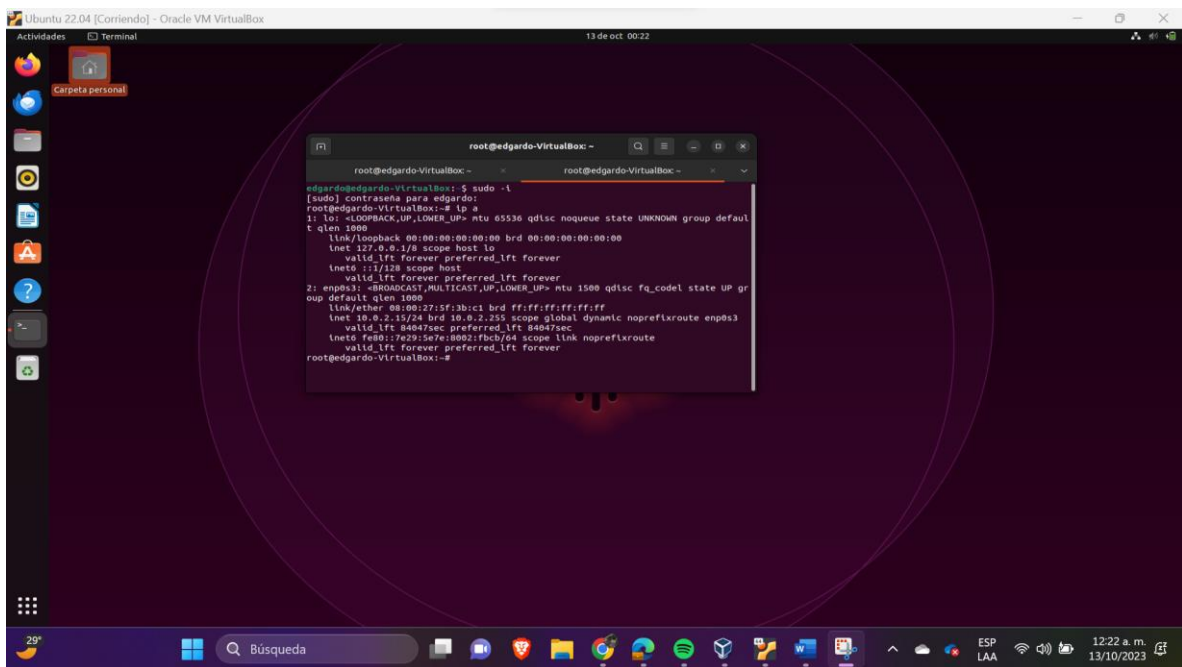
13. Hacer un ping a www.google.com.



The screenshot shows a terminal window titled 'root@edgardo-VirtualBox -' with the following output:

```
root@edgardo-VirtualBox:~# ping www.google.com
PING www.google.com (142.250.217.164) 56(84) bytes of data:
64 bytes from mla87s60-ln-f4.1e100.net (142.250.217.164): icmp_seq=1 ttl=116 ttime=91.8 ms
64 bytes from mla87s60-ln-f4.1e100.net (142.250.217.164): icmp_seq=2 ttl=116 ttime=88.4 ms
64 bytes from mla87s60-ln-f4.1e100.net (142.250.217.164): icmp_seq=3 ttl=116 ttime=87.1 ms
64 bytes from mla87s60-ln-f4.1e100.net (142.250.217.164): icmp_seq=4 ttl=116 ttime=88.3 ms
64 bytes from mla87s60-ln-f4.1e100.net (142.250.217.164): icmp_seq=5 ttl=116 ttime=92.9 ms
64 bytes from mla87s60-ln-f4.1e100.net (142.250.217.164): icmp_seq=6 ttl=116 ttime=81.3 ms
64 bytes from mla87s60-ln-f4.1e100.net (142.250.217.164): icmp_seq=7 ttl=116 ttime=78.2 ms
64 bytes from mla87s60-ln-f4.1e100.net (142.250.217.164): icmp_seq=8 ttl=116 ttime=79.1 ms
64 bytes from mla87s60-ln-f4.1e100.net (142.250.217.164): icmp_seq=9 ttl=116 ttime=81.5 ms
64 bytes from mla87s60-ln-f4.1e100.net (142.250.217.164): icmp_seq=10 ttl=116 ttime=81.8 ms
64 bytes from mla87s60-ln-f4.1e100.net (142.250.217.164): icmp_seq=11 ttl=116 ttime=91.2 ms
```

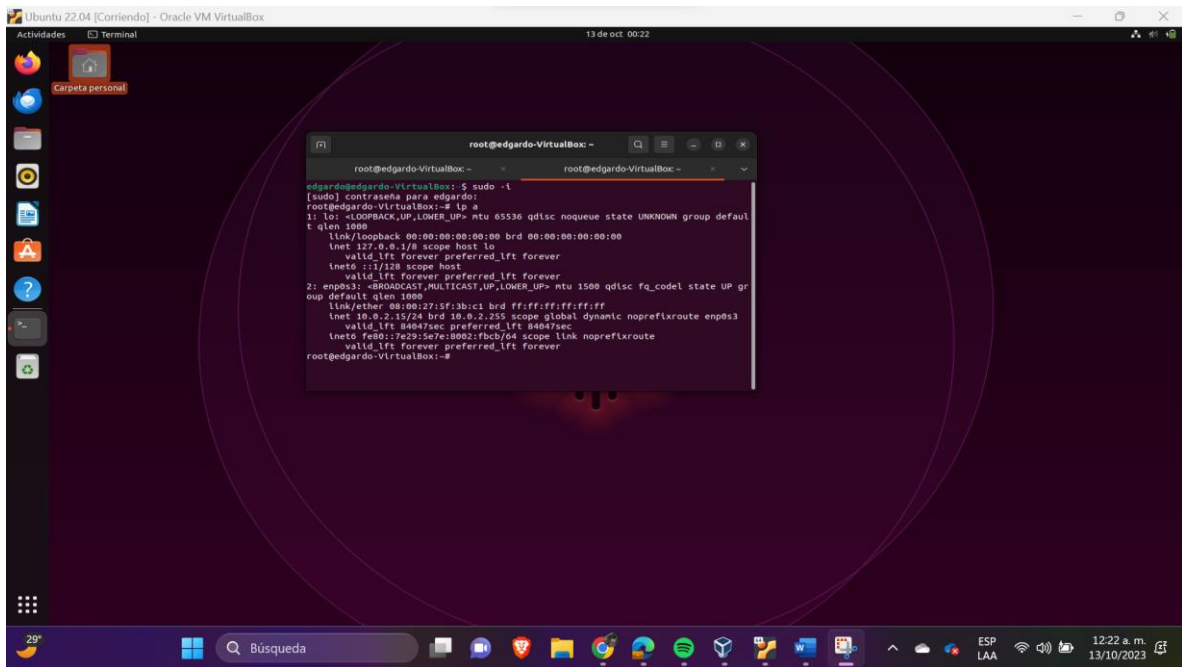
14. Mostrar la configuración de red del servidor.



The screenshot shows a terminal window titled 'root@edgardo-VirtualBox -' with the following output:

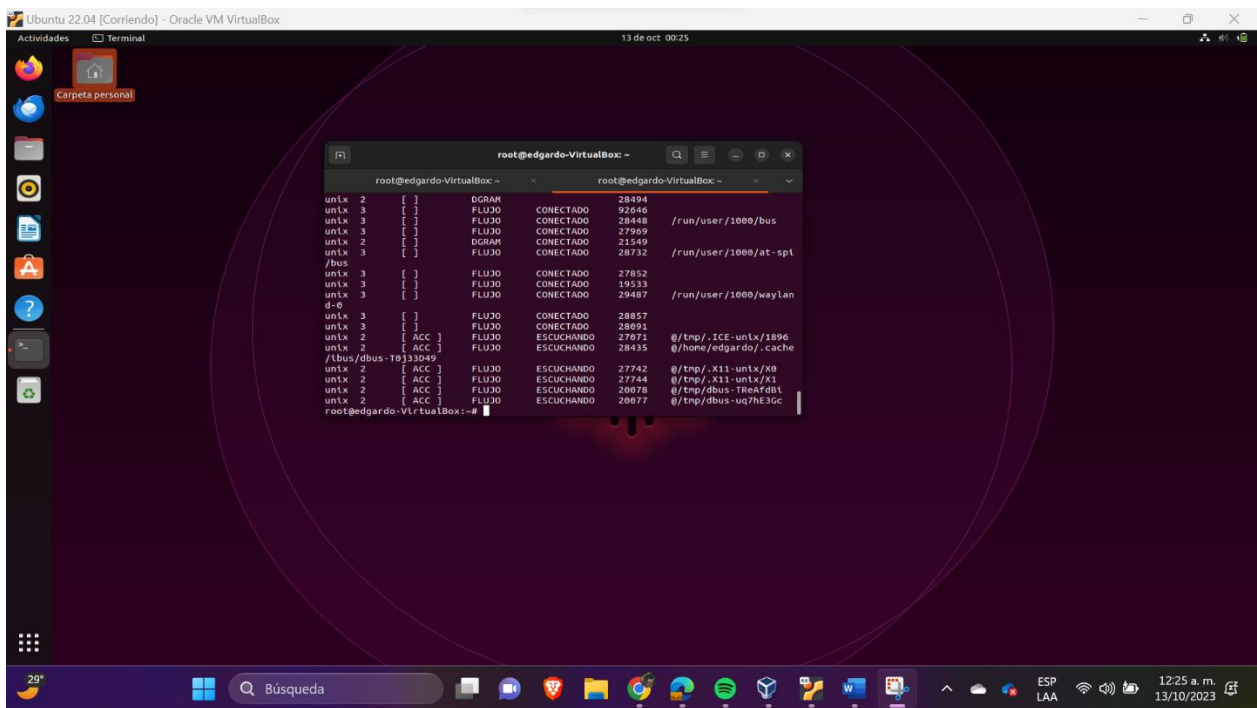
```
root@edgardo-VirtualBox:~# sudo -l
[sudo] contraseña para edgardo:
root@edgardo-VirtualBox:~# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp8s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:5f:3b:c1 brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp8s3
        valid_lft 84047sec preferred_lft 84047sec
    inet6 fe80::7293:5efe:b802:fcb3/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
root@edgardo-VirtualBox:~#
```

15. Usar el comando netstat.



The screenshot shows a terminal window titled 'root@edgardo-VirtualBox: ~' with the following output:

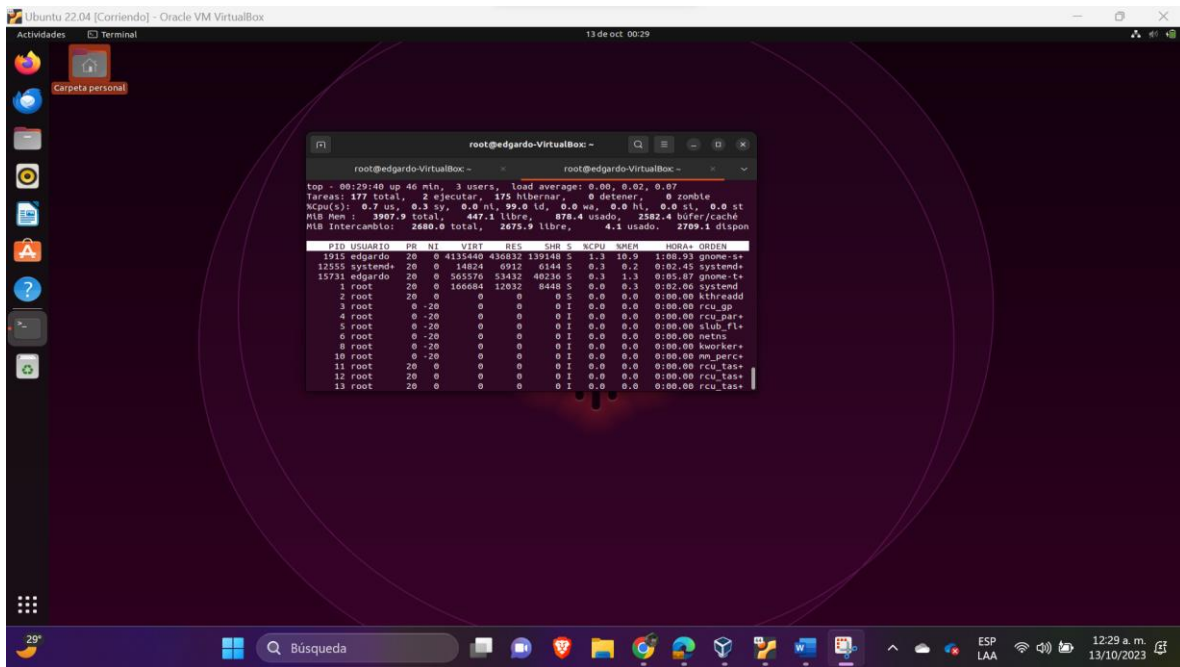
```
edgardo@edgardo-VirtualBox:~$ sudo -l
[sudo] contraseña para edgardo:
root@edgardo-VirtualBox:~# ifconfig
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp8s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:5f:3b:c1 brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp8s3
        valid_lft 84047sec preferred_lft 84047sec
    inet6 fe80::7629:5e7e:8002:fc3b/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
root@edgardo-VirtualBox:~#
```



The screenshot shows a terminal window titled 'root@edgardo-VirtualBox: ~' with the following output:

```
root@edgardo-VirtualBox:~# netstat -tln
tcp        0      0 0.0.0.0:22              0.0.0.0:22              LISTENING
tcp6       0      0 :::22                  :::22                    LISTENING
tcp        0      0 0.0.0.0:80              0.0.0.0:80              LISTENING
tcp6       0      0 :::80                  :::80                    LISTENING
tcp        0      0 0.0.0.0:443             0.0.0.0:443             LISTENING
tcp6       0      0 :::443                 :::443                   LISTENING
udp        0      0 0.0.0.0:6881            0.0.0.0:6881            LISTENING
udp6       0      0 :::6881                :::6881                  LISTENING
udp        0      0 0.0.0.0:5000            0.0.0.0:5000            LISTENING
udp6       0      0 :::5000                 :::5000                  LISTENING
root@edgardo-VirtualBox:~#
```

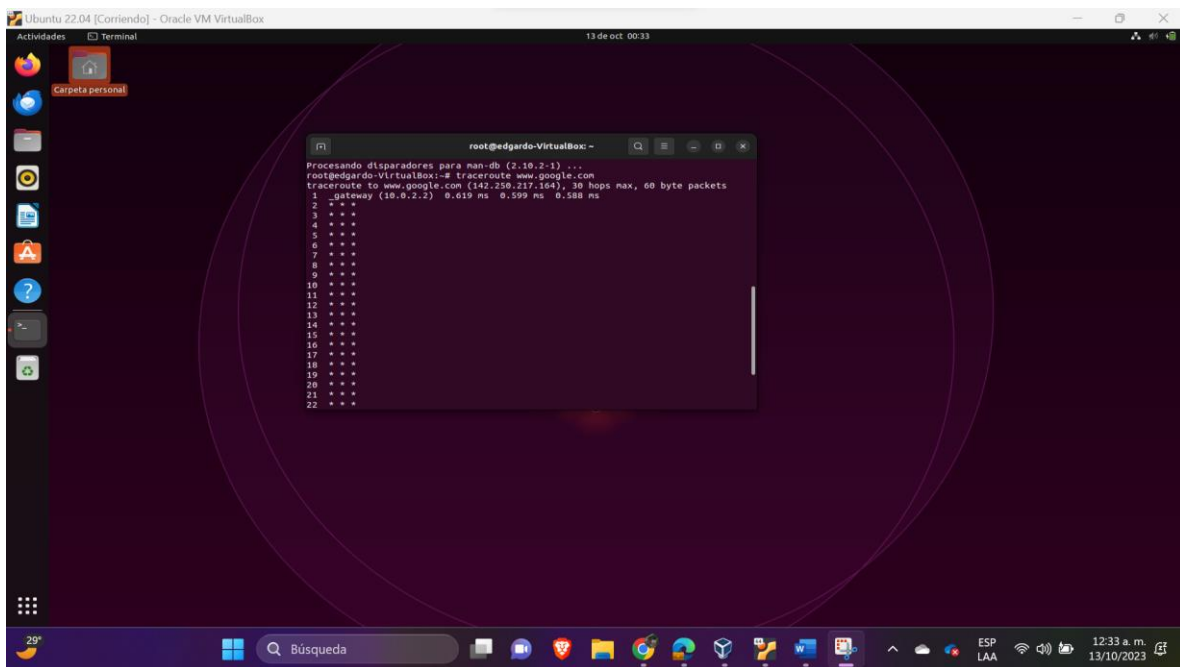

16. Usar el comando top.



```
root@edgardo-VirtualBox: ~  
top - 00:29:40 up 46 min, 3 users, load average: 0.00, 0.02, 0.07  
Tareas: 177 total, 2 ejecutar, 175 hibernar, 0 detener, 0 zombie  
Mcpu(s): 0.7 us, 0.3 sy, 0.0 ni, 99.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st  
Mib Mem: 3987.9 total, 447.1 libre, 878.4 usado, 2582.4 búfer/cache  
Mib Intercambio: 2680.0 total, 2675.9 libre, 4.1 usado, 2789.1 dispon
```

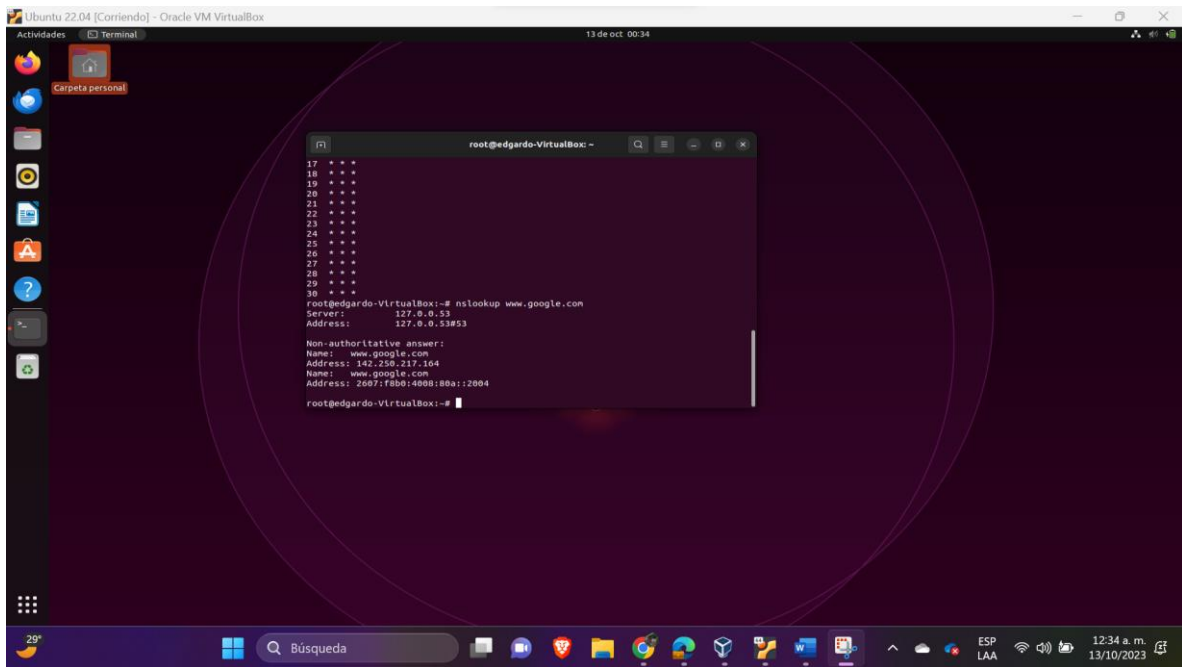
| PID | USUARIO | PR | NI | VIRT | RES | SHR | % | KCPU | KMEM | TIEMPO | ORDEN |
|-------|----------|----|-----|---------|--------|--------|---|------|------|---------|----------|
| 1915 | edgardo | 20 | 0 | 4135480 | 430832 | 139148 | 5 | 1.3 | 10.0 | 1:00.25 | gnome-d+ |
| 15555 | systemd+ | 20 | 0 | 14824 | 6912 | 6144 | 5 | 0.3 | 0.2 | 0:02.45 | systemd+ |
| 15731 | edgardo | 20 | 0 | 565576 | 53432 | 40236 | 5 | 0.3 | 1.3 | 0:05.87 | gnome-t+ |
| 1 | root | 20 | 0 | 166864 | 12032 | 8448 | 5 | 0.0 | 0.3 | 0:02.00 | systemd |
| 2 | root | 20 | 0 | 0 | 0 | 0 | 5 | 0.0 | 0.0 | 0:00.00 | kthread |
| 3 | root | 0 | -20 | 0 | 0 | 0 | 1 | 0.0 | 0.0 | 0:00.00 | rcu_gp |
| 4 | root | 0 | -20 | 0 | 0 | 0 | 1 | 0.0 | 0.0 | 0:00.00 | rcu_par+ |
| 5 | root | 0 | -20 | 0 | 0 | 0 | 1 | 0.0 | 0.0 | 0:00.00 | slub_fl+ |
| 6 | root | 0 | -20 | 0 | 0 | 0 | 1 | 0.0 | 0.0 | 0:00.00 | netns |
| 8 | root | 0 | -20 | 0 | 0 | 0 | 1 | 0.0 | 0.0 | 0:00.00 | kworker+ |
| 10 | root | 0 | -20 | 0 | 0 | 0 | 1 | 0.0 | 0.0 | 0:00.00 | mm_perc+ |
| 11 | root | 20 | 0 | 0 | 0 | 0 | 1 | 0.0 | 0.0 | 0:00.00 | rcu_tas+ |
| 12 | root | 20 | 0 | 0 | 0 | 0 | 1 | 0.0 | 0.0 | 0:00.00 | rcu_tas+ |
| 13 | root | 20 | 0 | 0 | 0 | 0 | 1 | 0.0 | 0.0 | 0:00.00 | rcu_tas+ |

17. Usar el comando traceroute.



```
root@edgardo-VirtualBox: ~  
Procesando dispositivos para nan-db (2.10.2-1) ...  
root@edgardo-VirtualBox:~# traceroute www.google.com  
traceroute to www.google.com (142.250.217.104), 30 hops max, 60 byte packets  
1 _gateway (10.0.2.2) 0.019 ms 0.599 ms 0.588 ms  
2 * * *  
3 * * *  
4 * * *  
5 * * *  
6 * * *  
7 * * *  
8 * * *  
9 * * *  
10 * * *  
11 * * *  
12 * * *  
13 * * *  
14 * * *  
15 * * *  
16 * * *  
17 * * *  
18 * * *  
19 * * *  
20 * * *  
21 * * *  
22 * * *
```

18. Usar el comando nslookup.



The screenshot shows a Windows 10 desktop environment. A VirtualBox VM titled 'Ubuntu 22.04 [Corriendo] - Oracle VM VirtualBox' is running. The Ubuntu desktop is visible, featuring a dark purple background with a large circular pattern. A terminal window is open in the center, displaying the following output:

```
root@edgardo-VirtualBox: ~  
17 * * *  
18 * * *  
19 * * *  
20 * * *  
21 * * *  
22 * * *  
23 * * *  
24 * * *  
25 * * *  
26 * * *  
27 * * *  
28 * * *  
29 * * *  
30 * * *  
root@edgardo-VirtualBox:~# nslookup www.google.com  
Server:      127.0.0.53  
Address:     127.0.0.53#53  
  
Non-authoritative answer:  
Name:   www.google.com  
Address: 142.250.217.104  
Name:   www.google.com  
Address: 2607:f8b6:4008:80a::2004  
root@edgardo-VirtualBox:~#
```

The terminal window has a title bar that reads 'root@edgardo-VirtualBox: ~'. The Ubuntu desktop includes a sidebar with application icons and a bottom panel with a search bar labeled 'Búsqueda' and system status icons.