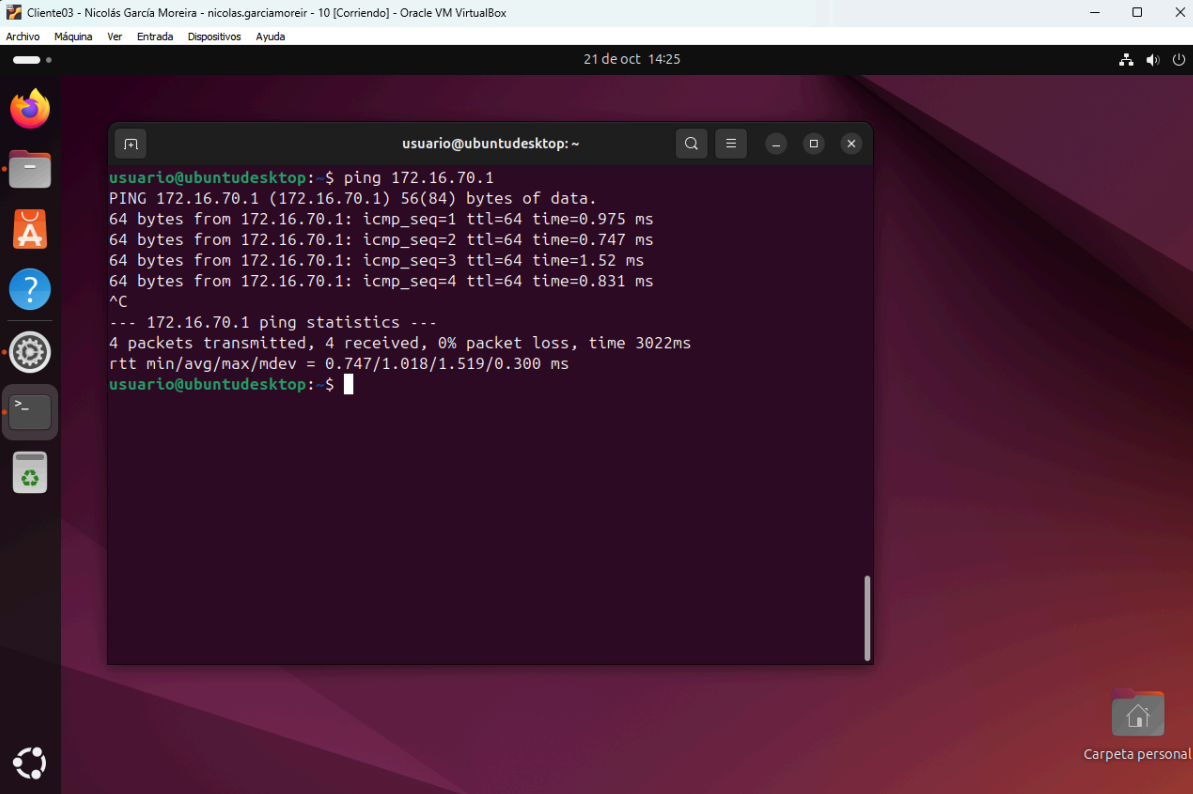


Actividad 4.4: Configuración de la red el cliente Ubuntu Desktop en modo gráfico.

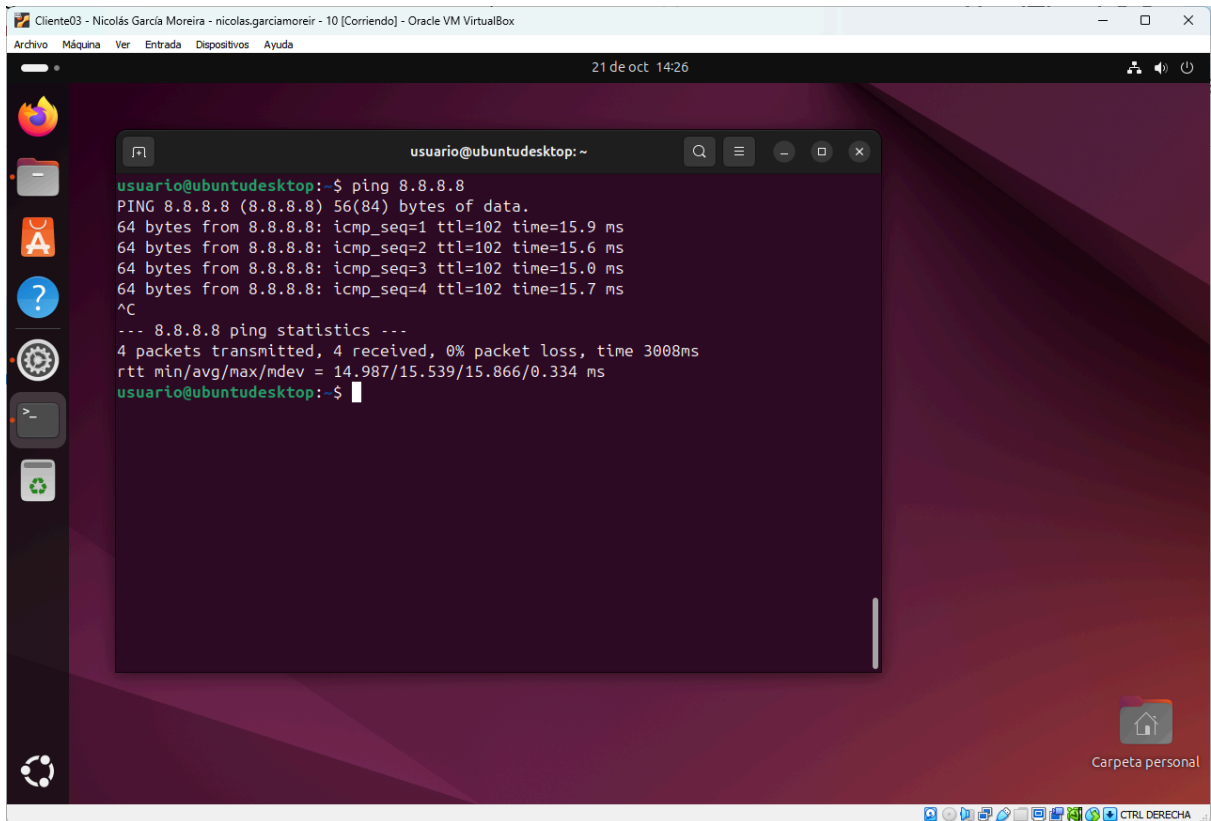
1. A la hora de realizar las capturas, cuando no se especifique qué máquina, se supondrá que es Cliente03.
2. Configurar la conexión de red desde el **entorno gráfico**.
 - a. Utilizar la IP: 172.16.(Nº de lista+60).3
3. Capturar:
 - a. Resultado de hacer ping a Rúter.



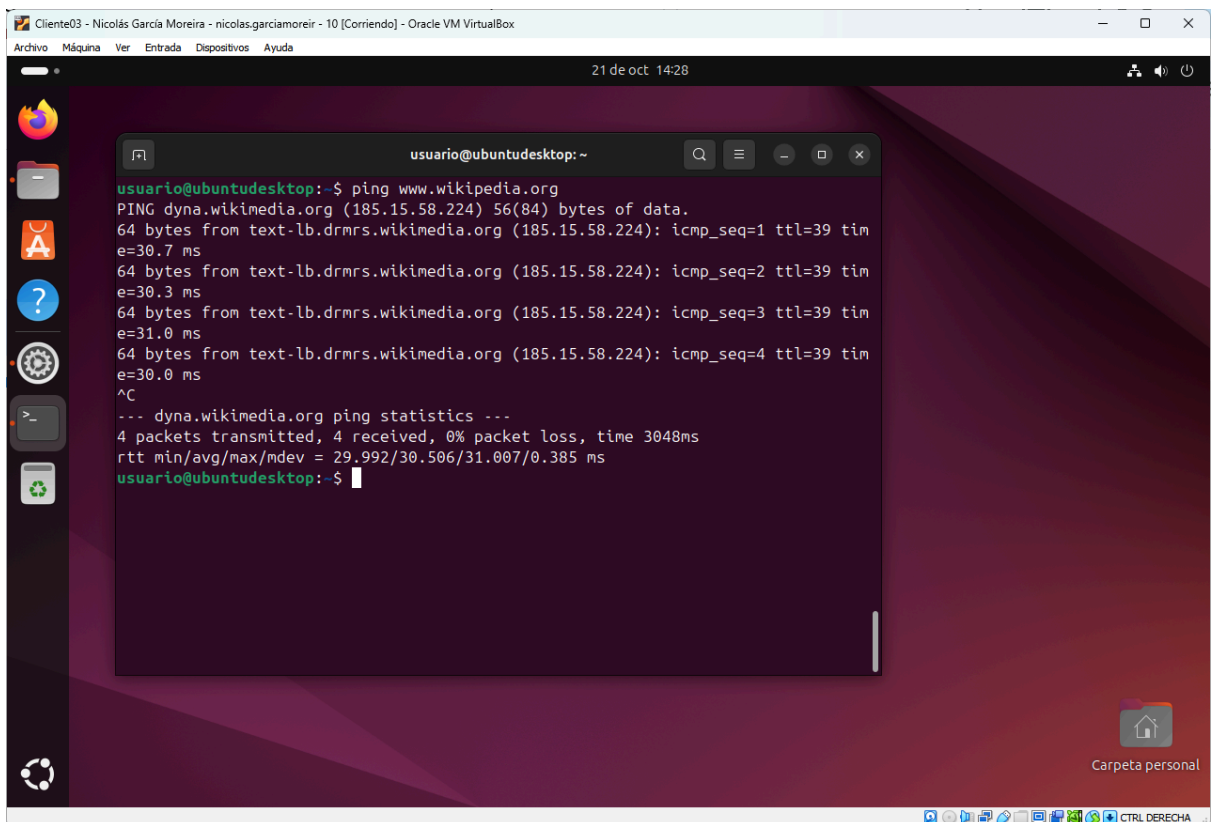
The screenshot shows a virtual machine window titled 'Cliente03 - Nicolás García Moreira - nicolas.garciamoreir - 10 [Corriendo] - Oracle VM VirtualBox'. The desktop environment is Ubuntu, with a terminal window open. The terminal output shows a successful ping to 172.16.70.1.

```
usuario@ubuntudesktop: ~  
usuario@ubuntudesktop:~$ ping 172.16.70.1  
PING 172.16.70.1 (172.16.70.1) 56(84) bytes of data.  
64 bytes from 172.16.70.1: icmp_seq=1 ttl=64 time=0.975 ms  
64 bytes from 172.16.70.1: icmp_seq=2 ttl=64 time=0.747 ms  
64 bytes from 172.16.70.1: icmp_seq=3 ttl=64 time=1.52 ms  
64 bytes from 172.16.70.1: icmp_seq=4 ttl=64 time=0.831 ms  
^C  
--- 172.16.70.1 ping statistics ---  
4 packets transmitted, 4 received, 0% packet loss, time 3022ms  
rtt min/avg/max/mdev = 0.747/1.018/1.519/0.300 ms  
usuario@ubuntudesktop:~$
```

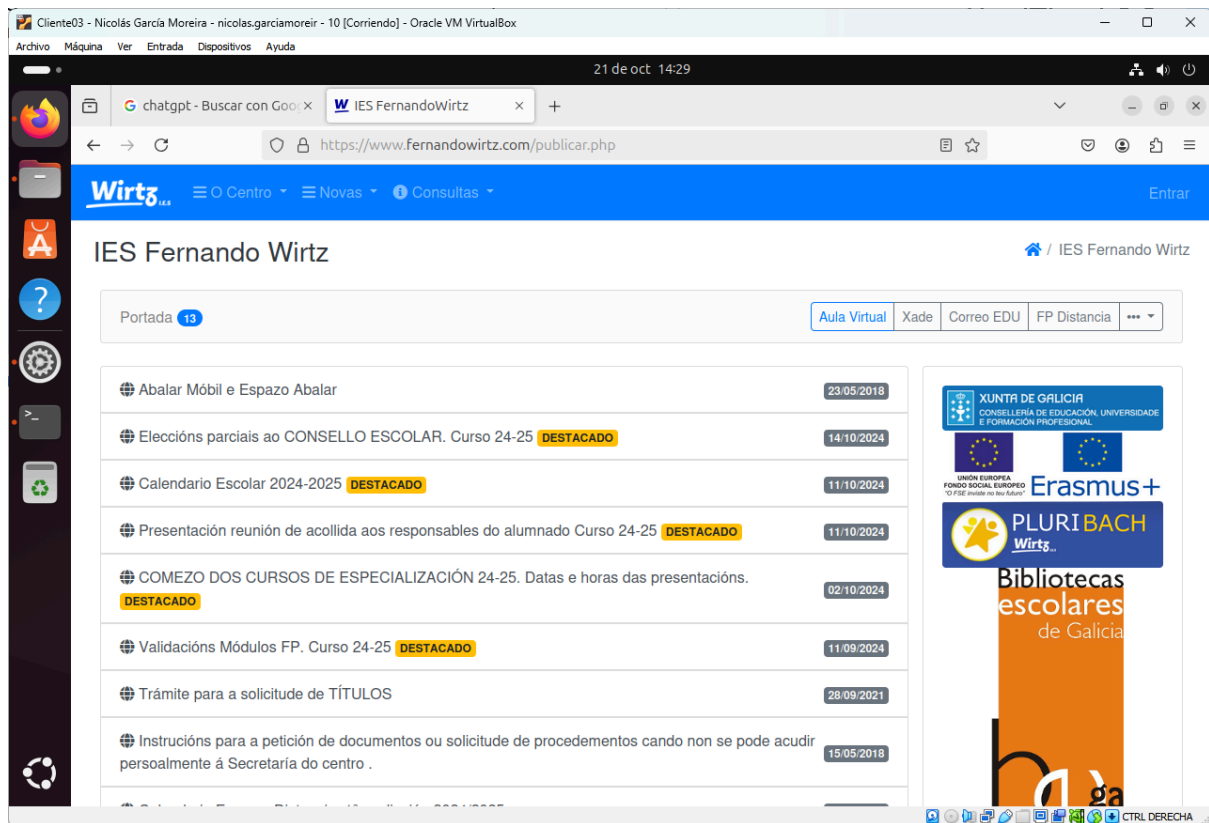
- b. Resultado de hacer ping a una IP de Internet (por ejemplo, 8.8.8.8).



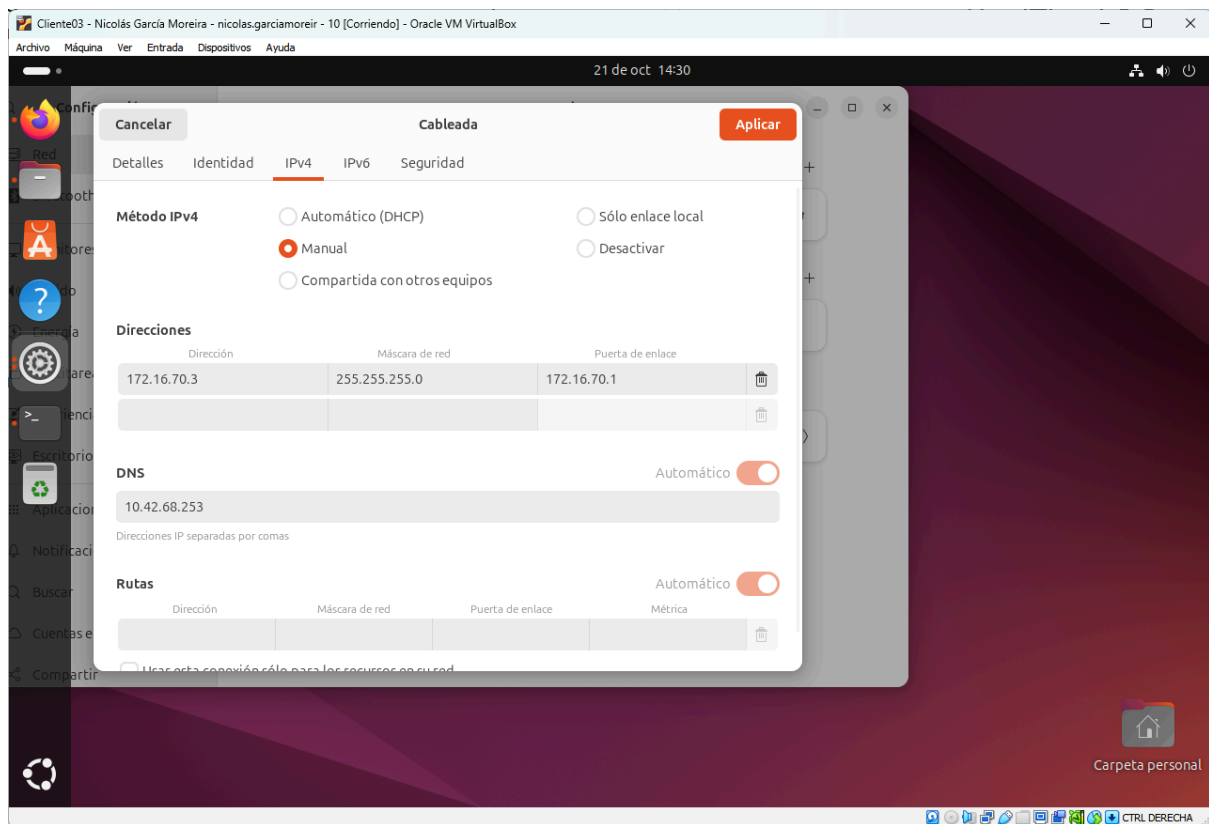
- c. Resultado de hacer ping a un nombre de dominio de Internet (por ejemplo, www.wikipedia.org).



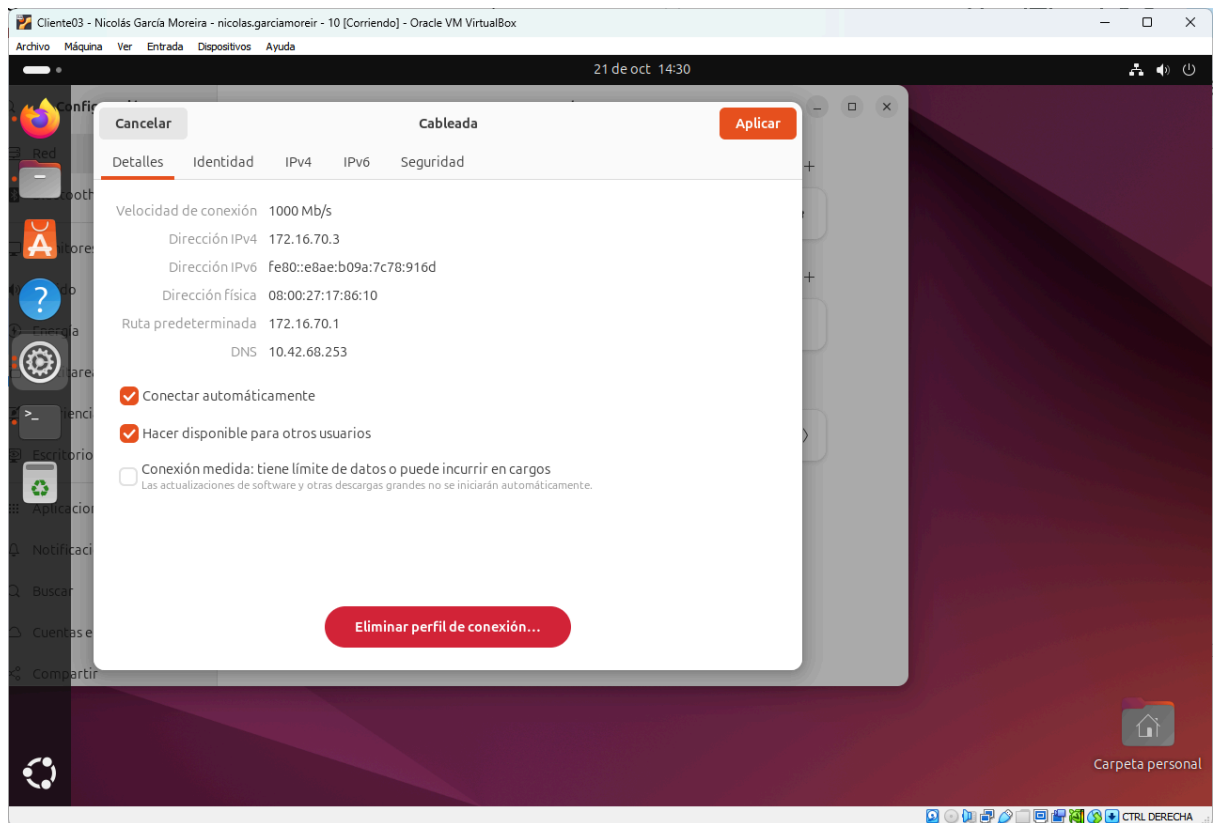
- d. Navegador web mostrando una página de Internet.



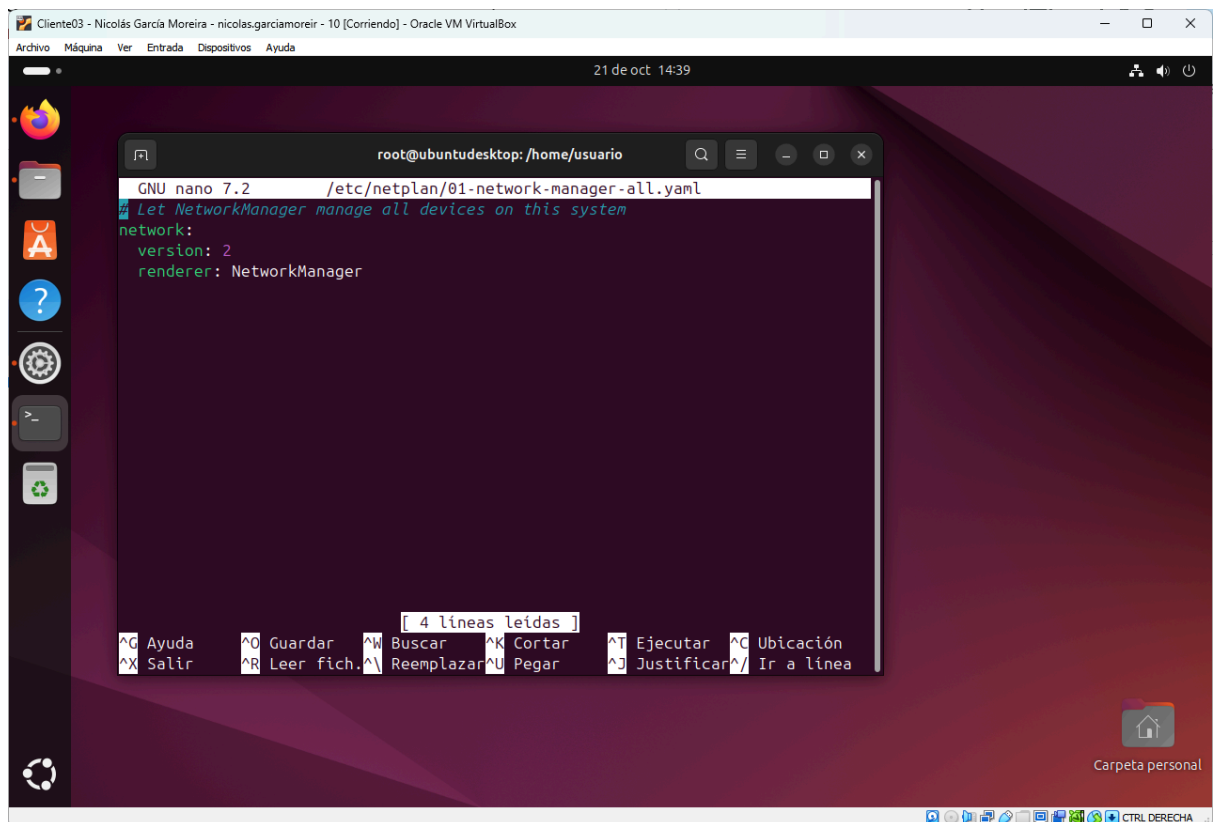
e. Ventana en la que se configura la conexión de red.

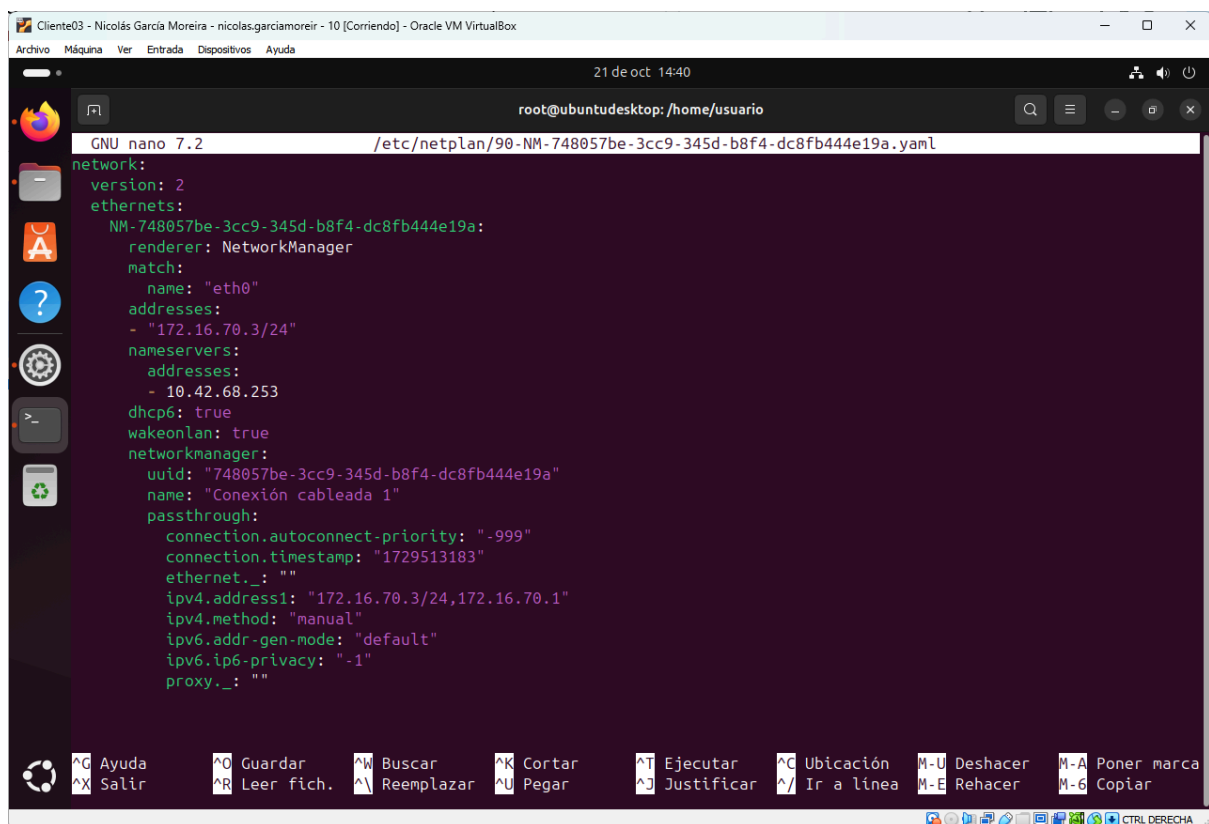
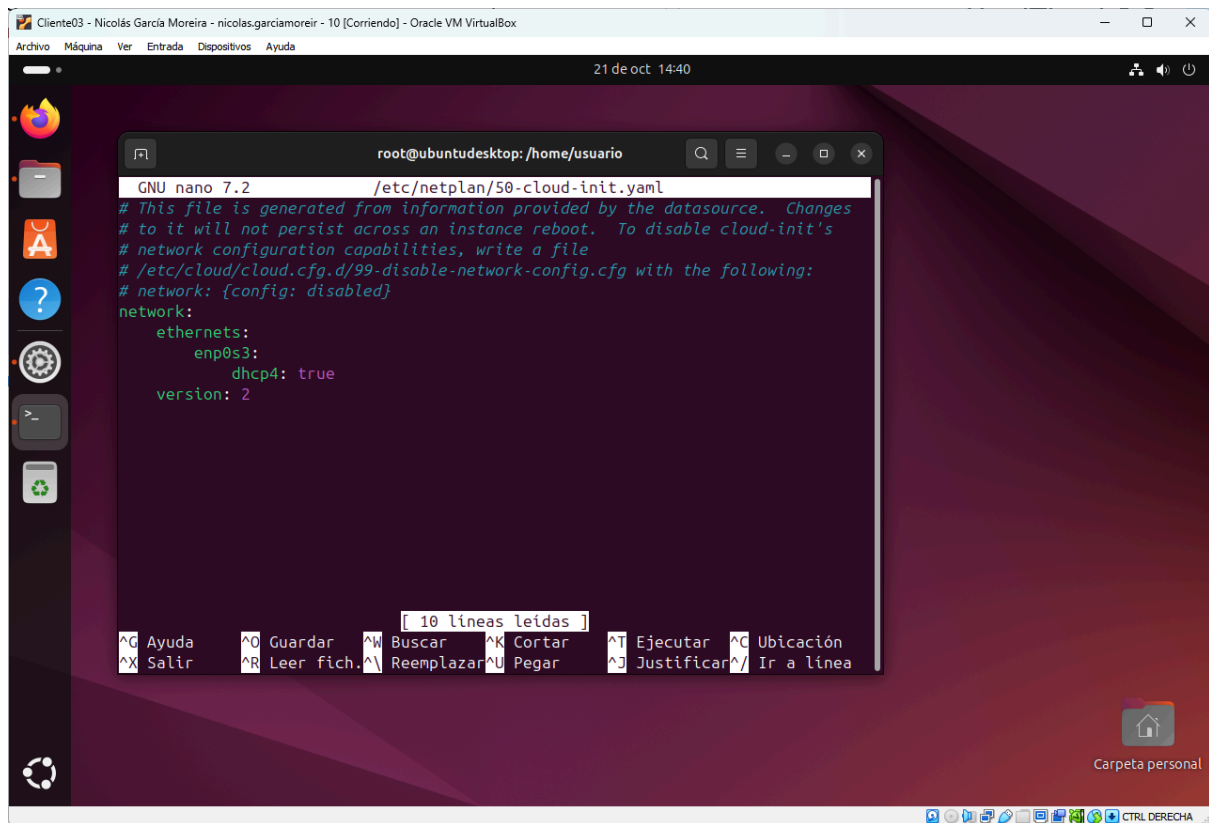


4. Capturar la ventana de información de la conexión.



5. Captura el contenido de los archivos *yaml*.





6. En Rúter, captura:
 - a. IPs de las conexiones de red.

```
Rúter - Nicolás García Moreira - nicolas.garciamoreir - 10 (Actividad1.4) [Corriendo] - Oracle VM VirtualBox
Archivo Máquina Ver Entrada Dispositivos Ayuda
root@ubuntu:~# 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 noprefixroute
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 08:00:27:96:c0:01 brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 metric 100 brd 10.0.2.255 scope global dynamic enp0s3
        valid_lft 85670sec preferred_lft 85670sec
    inet6 fe80::a00:27ff:fe96:c001/64 scope link
        valid_lft forever preferred_lft forever
3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 08:00:27:5c:33:25 brd ff:ff:ff:ff:ff:ff
    inet 172.16.10.1/24 brd 172.16.10.255 scope global enp0s8
        valid_lft forever preferred_lft forever
    inet6 fe80::a00:27ff:fe5c:3325/64 scope link
        valid_lft forever preferred_lft forever
4: enp0s9: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 08:00:27:70:af:28 brd ff:ff:ff:ff:ff:ff
    inet 172.16.70.1/24 brd 172.16.70.255 scope global enp0s9
        valid_lft forever preferred_lft forever
    inet6 fe80::a00:27ff:fe70:af28/64 scope link
        valid_lft forever preferred_lft forever
root@ubuntu:~#
```

b. Puerta de enlace.

```
Rúter - Nicolás García Moreira - nicolas.garciamoreir - 10 (Actividad1.4) [Corriendo] - Oracle VM VirtualBox
Archivo Máquina Ver Entrada Dispositivos Ayuda
root@ubuntu:~# ip r
default via 10.0.2.2 dev enp0s3 proto dhcp src 10.0.2.15 metric 100
10.0.2.0/24 dev enp0s3 proto kernel scope link src 10.0.2.15 metric 100
10.0.2.2 dev enp0s3 proto dhcp scope link src 10.0.2.15 metric 100
10.42.68.253 via 10.0.2.2 dev enp0s3 proto dhcp src 10.0.2.15 metric 100
10.42.68.254 via 10.0.2.2 dev enp0s3 proto dhcp src 10.0.2.15 metric 100
172.16.10.0/24 dev enp0s8 proto kernel scope link src 172.16.10.1
172.16.70.0/24 dev enp0s9 proto kernel scope link src 172.16.70.1
root@ubuntu:~#
```

c. DNS para el nuevo adaptador (no tiene).

```
Rúter - Nicolás García Moreira - nicolas.garciamoreir - 10 (Actividad1.4) [Corriendo] - Oracle VM VirtualBox
Archivo Máquina Ver Entrada Dispositivos Ayuda
root@ubuntu-server:/home/usuario# resolvectl status
Global
  Protocols: -LLMNR -mDNS -DNSOverTLS DNSSEC=no/unsupported
  resolv.conf mode: stub

Link 2 (enp0s3)
  Current Scopes: DNS
  Protocols: +DefaultRoute -LLMNR -mDNS -DNSOverTLS DNSSEC=no/unsupported
  Current DNS Server: 10.42.68.254
  DNS Servers: 10.42.68.254 10.42.68.253

Link 3 (enp0s8)
  Current Scopes: none
  Protocols: -DefaultRoute -LLMNR -mDNS -DNSOverTLS DNSSEC=no/unsupported

Link 4 (enp0s9)
  Current Scopes: none
  Protocols: -DefaultRoute -LLMNR -mDNS -DNSOverTLS DNSSEC=no/unsupported
root@ubuntu-server:/home/usuario#
```

d. Archivo de configuración de red.

```
Rúter - Nicolás García Moreira - nicolas.garciamoreir - 10 (Actividad1.4) [Corriendo] - Oracle VM VirtualBox
Archivo Máquina Ver Entrada Dispositivos Ayuda
GNU nano 7.2 /etc/netplan/50-cloud-init.yaml
# This file is generated from information provided by the datasource. Changes
# to it will not persist across an instance reboot. To disable cloud-init's
# network configuration capabilities, write a file
# /etc/cloud/cloud.cfg.d/99-disable-network-config.cfg with the following:
# network: {config: disabled}
network:
  version: 2
  renderer: networkd
  ethernets:
    enp0s3:
      dhcp4: true
    enp0s8:
      dhcp4: no
      addresses: [172.16.10.1/24]
    enp0s9:
      dhcp4: no
      addresses: [172.16.70.1/24]
```

e. Contenido del archivo *rules.v4*

```
Rúter - Nicolás García Moreira - nicolas.garciamoreir - 10 (Actividad1.4) [Corriendo] - Oracle VM VirtualBox
GNU nano 7.2 /etc/iptables/rules.v4
# Generated by iptables-save v1.8.10 (nf_tables) on Mon Oct  7 11:58:18 2024
*filter
:INPUT ACCEPT [0:0]
:FORWARD ACCEPT [0:0]
:OUTPUT ACCEPT [0:0]
-A FORWARD -j ACCEPT
COMMIT
# Completed on Mon Oct  7 11:58:18 2024
# Generated by iptables-save v1.8.10 (nf_tables) on Mon Oct  7 11:58:18 2024
*nat
:PREROUTING ACCEPT [0:0]
:INPUT ACCEPT [0:0]
:OUTPUT ACCEPT [0:0]
:POSTROUTING ACCEPT [0:0]
-A POSTROUTING -s 172.16.10.0/24 -o enp0s3 -j MASQUERADE
-A POSTROUTING -s 172.16.70.0/24 -o enp0s3 -j MASQUERADE
COMMIT
# Completed on Mon Oct  7 11:58:18 2024

[ Read 18 lines ]
Help Write Out Where Is Cut Execute Location M-U Undo M-A Set Mark M-] To Bracket M-O Previous
Exit Read File Replace Paste Justify Go To Line M-E Redo M-B Copy M-^ Where Was M-K Next
CTRL DERECHA
```