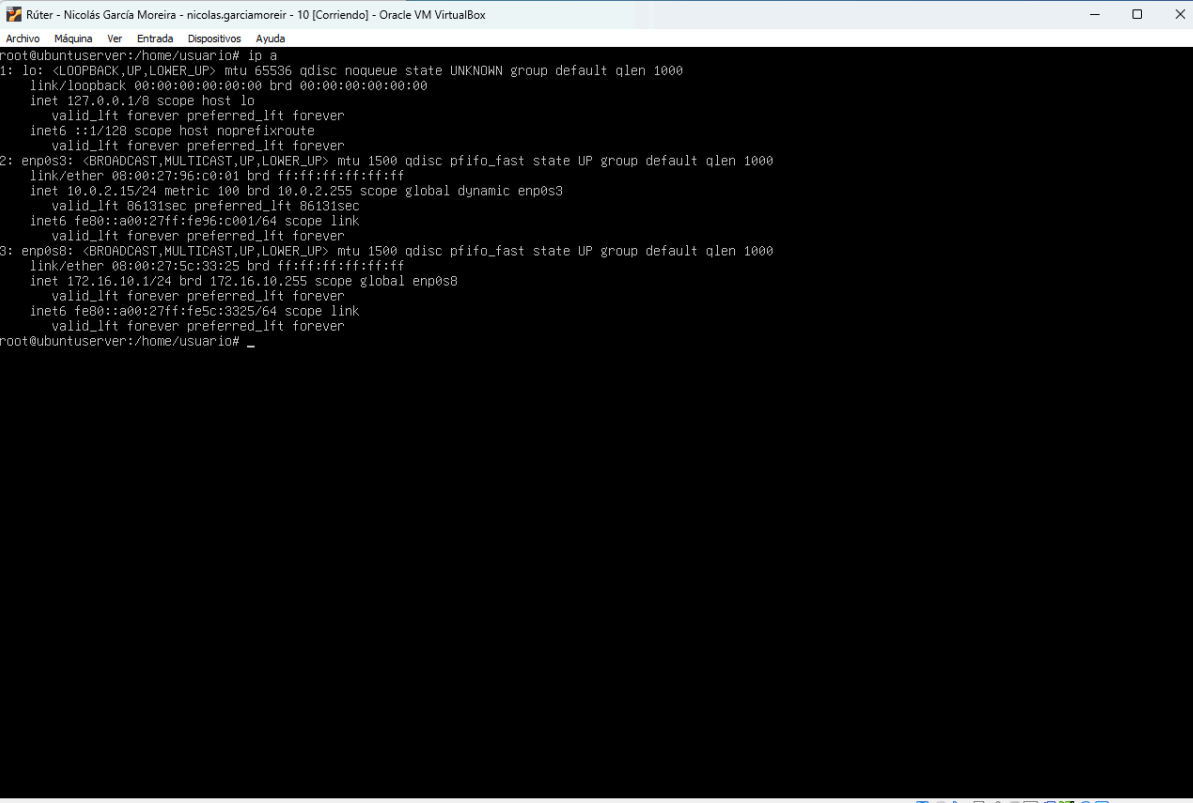


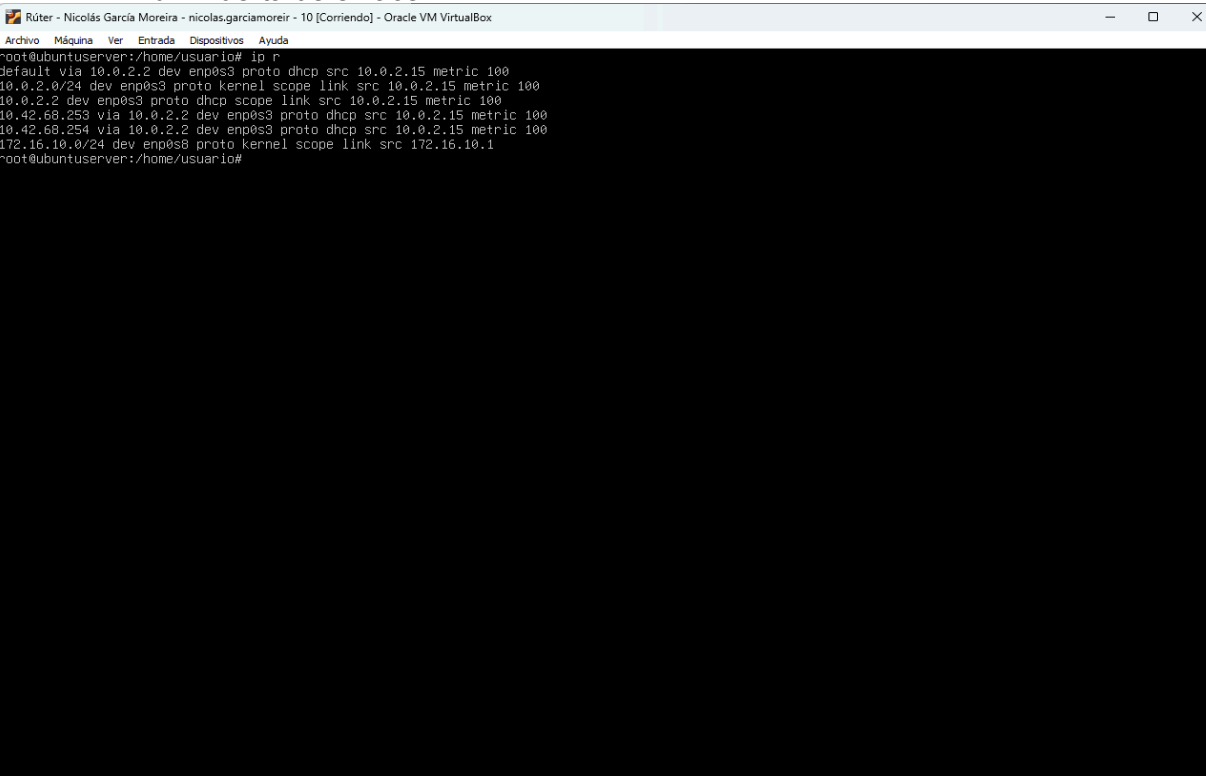
Actividad 1.2: R ter virtual: configuraci n de la red.

1. Configura las conexiones de red:
 - a. Adaptador 1: NAT
 - b. Adaptador 2: Est tica con IP 172.16.N  de lista.1/24 y m scara 255.255.255.0. No definir ni puerta de enlace ni DNS.
2. Captura:
 - a. IPs de las conexiones de red.



```
R ter - Nicol s Garc a Moreira - nicolas.garciamoreir - 10 [Corriendo] - Oracle VM VirtualBox
Archivo M quina 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 86131sec preferred_lft 86131sec
    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 08:00:27:96:c0:01 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:fe96:c001/64 scope link
        valid_lft forever preferred_lft forever
root@ubuntu:~#
```

b. Puerta de enlace.



```
R ter - Nicol s Garc a Moreira - nicolas.garciamoreir - 10 [Corriendo] - Oracle VM VirtualBox
Archivo M quina 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
root@ubuntu:~#
```

c. DNS.

```
Rúter - Nicolás García Moreira - nicolas.garciamoreir - 10 [Corriendo] - Oracle VM VirtualBox
Archivo Máquina Ver Entrada Dispositivos Ayuda
root@ubuntuserver:/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
root@ubuntuserver:/home/usuario# _
```

d. Ping a una IP de Internet.

```
Rúter - Nicolás García Moreira - nicolas.garciamoreir - 10 [Corriendo] - Oracle VM VirtualBox
Archivo Máquina Ver Entrada Dispositivos Ayuda
root@ubuntuserver:/home/usuario# ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data:
64 bytes from 8.8.8.8: icmp_seq=1 ttl=103 time=15.1 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=103 time=14.5 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=103 time=14.5 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=103 time=14.5 ms
^C
--- 8.8.8.8 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3005ms
rtt min/avg/max/mdev = 14.452/14.642/15.079/0.253 ms
root@ubuntuserver:/home/usuario# _
```

e. Ping a un nombre de dominio de Internet.

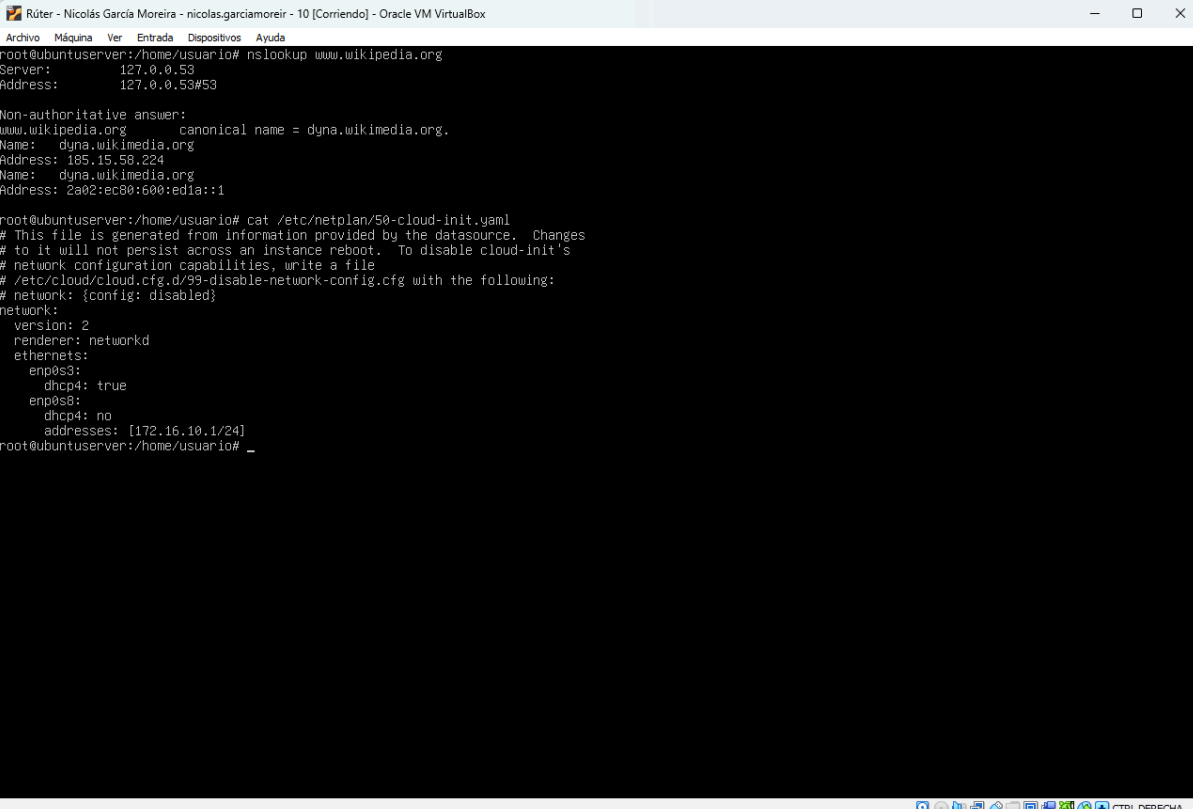
```
Rúter - Nicolás García Moreira - nicolas.garciamoreir - 10 [Corriendo] - Oracle VM VirtualBox
Archivo Máquina Ver Entrada Dispositivos Ayuda
root@ubuntu:~# ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data:
64 bytes from 8.8.8.8: icmp_seq=1 ttl=103 time=15.1 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=103 time=14.5 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=103 time=14.5 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=103 time=14.5 ms
^C
--- 8.8.8.8 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3005ms
rtt min/avg/max/mdev = 14.452/14.642/15.079/0.253 ms
root@ubuntu:~# ping edu.xunta.es
PING edu.xunta.es (10.180.188.155) 56(84) bytes of data:
64 bytes from prd-apache-c14-service-001.xunta.local (10.180.188.155): icmp_seq=1 ttl=51 time=4.28 ms
64 bytes from prd-apache-c14-service-001.xunta.local (10.180.188.155): icmp_seq=2 ttl=51 time=3.38 ms
64 bytes from prd-apache-c14-service-001.xunta.local (10.180.188.155): icmp_seq=3 ttl=51 time=3.22 ms
64 bytes from prd-apache-c14-service-001.xunta.local (10.180.188.155): icmp_seq=4 ttl=51 time=3.34 ms
64 bytes from prd-apache-c14-service-001.xunta.local (10.180.188.155): icmp_seq=5 ttl=51 time=3.63 ms
^C
--- edu.xunta.es ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4004ms
rtt min/avg/max/mdev = 3.223/3.690/4.283/0.382 ms
root@ubuntu:~#
```

f. Nslookup a un nombre de dominio de Internet.

```
Rúter - Nicolás García Moreira - nicolas.garciamoreir - 10 [Corriendo] - Oracle VM VirtualBox
Archivo Máquina Ver Entrada Dispositivos Ayuda
root@ubuntu:~# nslookup www.wikipedia.org
Server:
127.0.0.53
Address:
127.0.0.53#53

Non-authoritative answer:
www.wikipedia.org canonical name = dyna.wikimedia.org.
Name: dyna.wikimedia.org
Address: 185.15.58.224
Name: dyna.wikimedia.org
Address: 2a02:ec00:600:edia::1
root@ubuntu:~#
```

g. Archivo de configuración de red.



```
Rúter - Nicolás García Moreira - nicolas.garciamoreir - 10 [Corriendo] - Oracle VM VirtualBox
Archivo Máquina Ver Entrada Dispositivos Ayuda
root@ubuntu:~# nslookup www.wikipedia.org
Server:      127.0.0.53
Address:     127.0.0.53#53

Non-authoritative answer:
www.wikipedia.org canonical name = dyna.wikimedia.org.
Name:   dyna.wikimedia.org
Address: 185.15.58.224
Name:   dyna.wikimedia.org
Address: 2a02:ec80:600:ed1a::1

root@ubuntu:~# cat /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]
root@ubuntu:~#
```