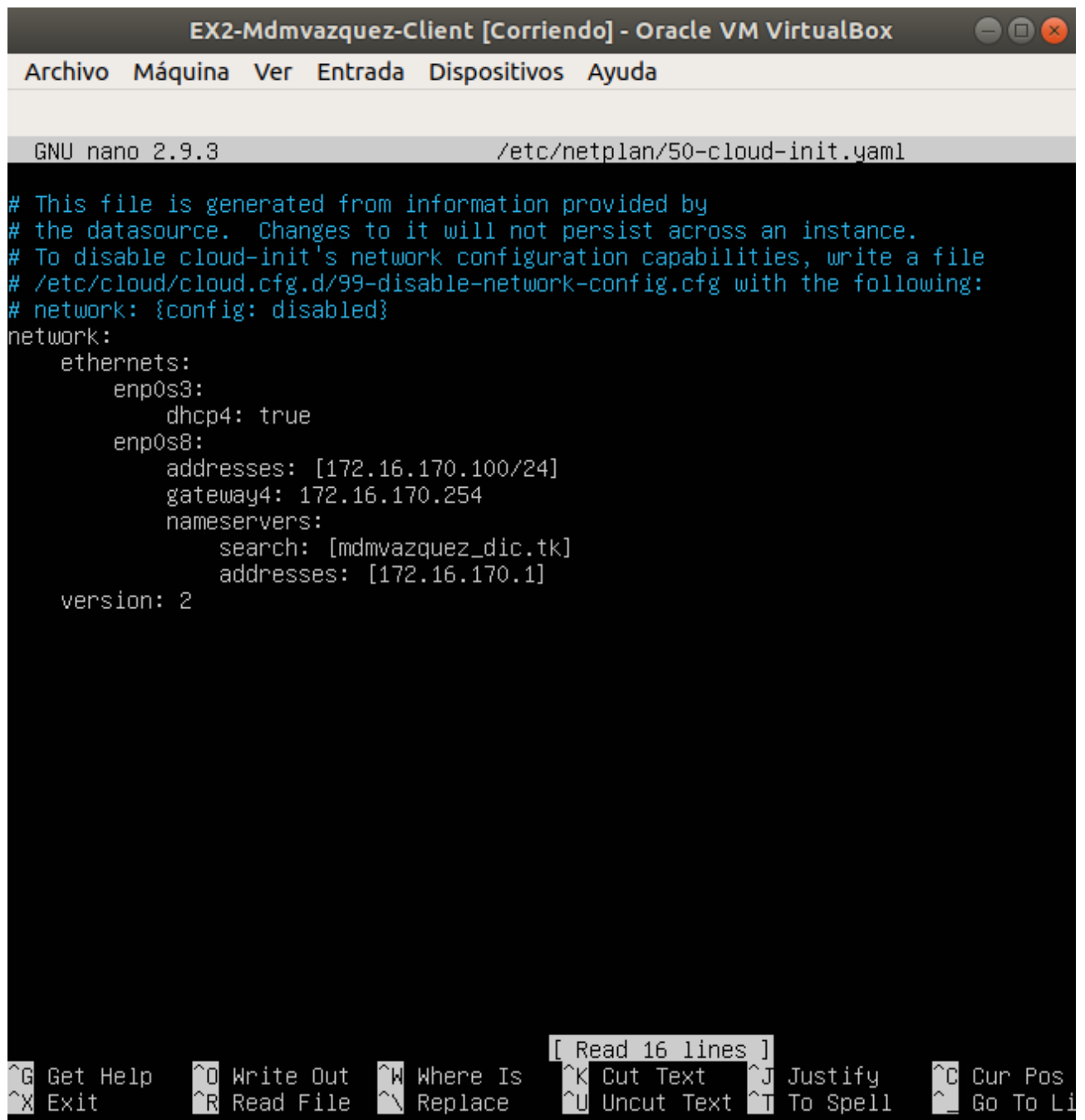


1.

-Cliente



The screenshot shows a terminal window titled "EX2-Mdmvazquez-Client [Corriendo] - Oracle VM VirtualBox". The window has a menu bar with "Archivo", "Máquina", "Ver", "Entrada", "Dispositivos", and "Ayuda". Below the menu bar, the terminal shows the GNU nano 2.9.3 editor editing the file /etc/netplan/50-cloud-init.yaml. The content of the file is as follows:

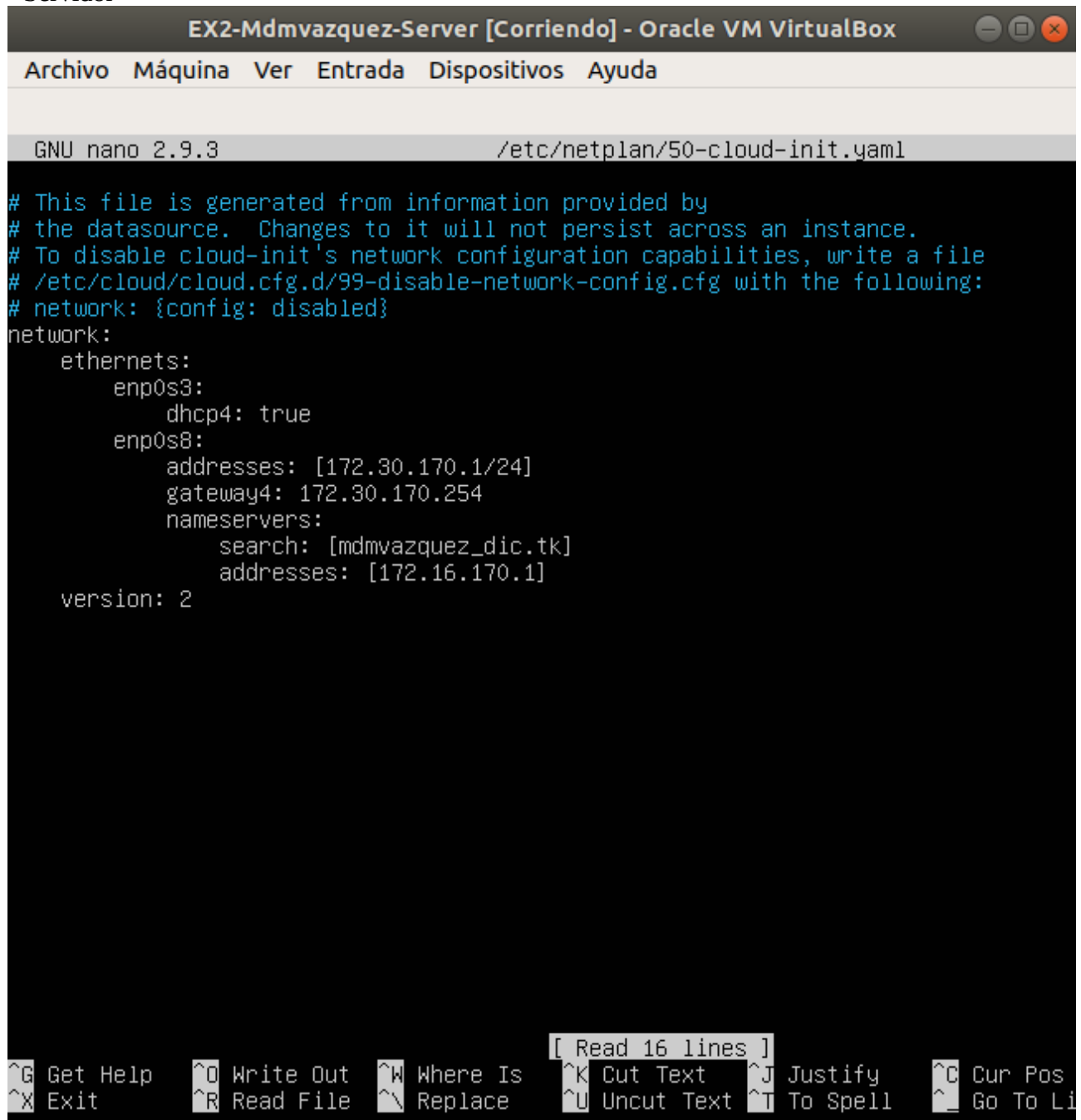
```
# This file is generated from information provided by
# the datasource.  Changes to it will not persist across an instance.
# To disable cloud-init's network configuration capabilities, write a file
# /etc/cloud/cloud.cfg.d/99-disable-network-config.cfg with the following:
# network: {config: disabled}
network:
  ethernets:
    enp0s3:
      dhcp4: true
    enp0s8:
      addresses: [172.16.170.100/24]
      gateway4: 172.16.170.254
      nameservers:
        search: [mdmvazquez_dic.tk]
        addresses: [172.16.170.1]
  version: 2
```

At the bottom of the terminal, there is a status bar with various keyboard shortcuts and their functions:

Get Help	Write Out	Where Is	Cut Text	Justify	Cur Pos
Exit	Read File	Replace	Uncut Text	To Spell	Go To Li

Additionally, a status bar at the bottom of the terminal shows "[Read 16 lines]".

- Servidor



The screenshot shows a terminal window titled "EX2-Mdmvazquez-Server [Corriendo] - Oracle VM VirtualBox". The window has a menu bar with "Archivo", "Máquina", "Ver", "Entrada", "Dispositivos", and "Ayuda". Below the menu bar, the terminal shows the GNU nano 2.9.3 editor editing the file /etc/netplan/50-cloud-init.yaml. The file content is as follows:

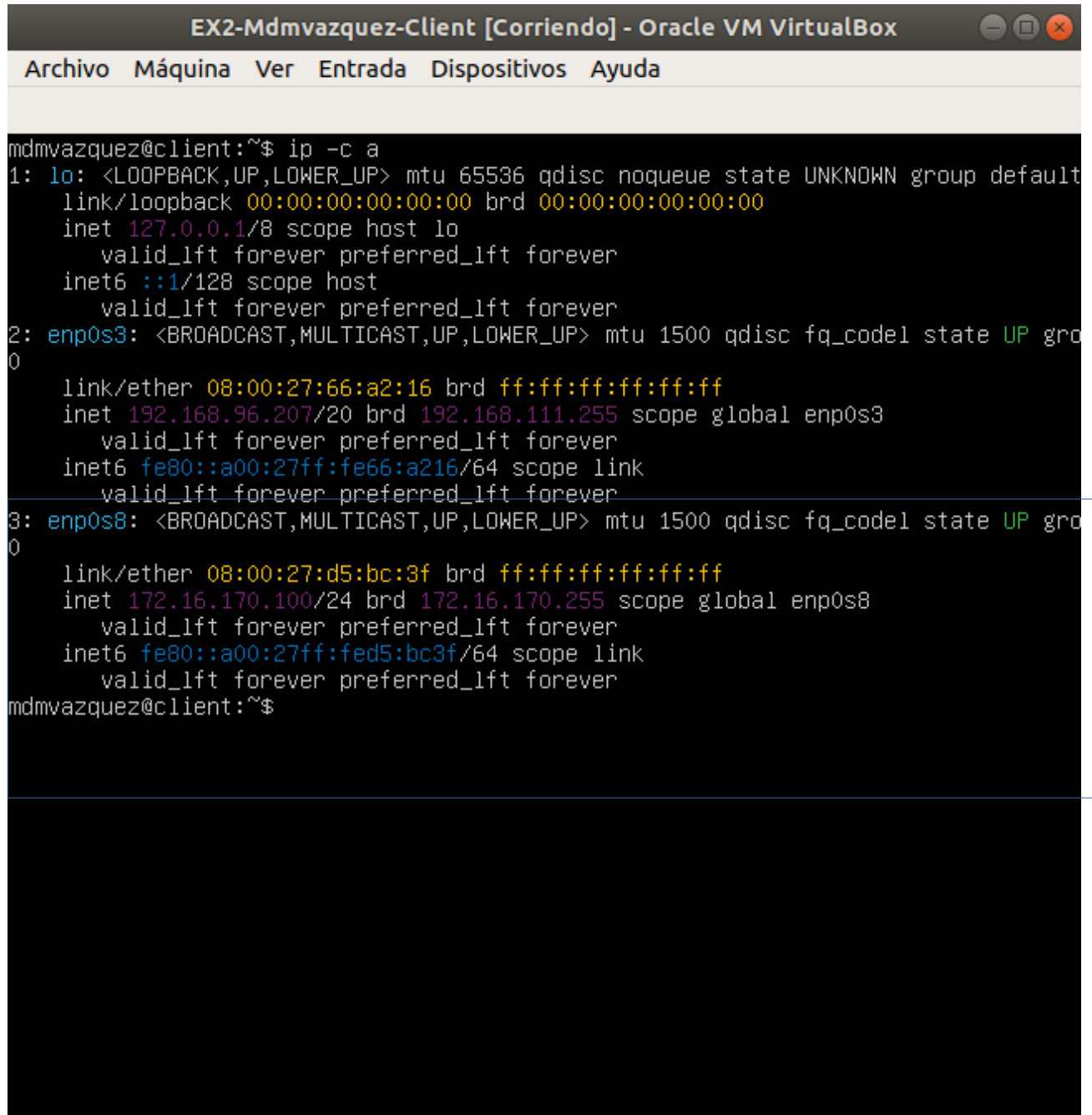
```
# This file is generated from information provided by
# the datasource.  Changes to it will not persist across an instance.
# To disable cloud-init's network configuration capabilities, write a file
# /etc/cloud/cloud.cfg.d/99-disable-network-config.cfg with the following:
# network: {config: disabled}
network:
  ethernets:
    enp0s3:
      dhcp4: true
    enp0s8:
      addresses: [172.30.170.1/24]
      gateway4: 172.30.170.254
      nameservers:
        search: [mdmvazquez_dic.tk]
        addresses: [172.16.170.1]
  version: 2
```

At the bottom of the terminal, there is a status bar with various keyboard shortcuts and their functions:

^G Get Help	^O Write Out	^W Where Is	[Read 16 lines]	^K Cut Text	^J Justify	^C Cur Pos
^X Exit	^R Read File	^_ Replace		^U Uncut Text	^T To Spell	^_ Go To Li

2.

-Cliente



```
EX2-Mdmvazquez-Client [Corriendo] - Oracle VM VirtualBox
Archivo  Máquina  Ver  Entrada  Dispositivos  Ayuda

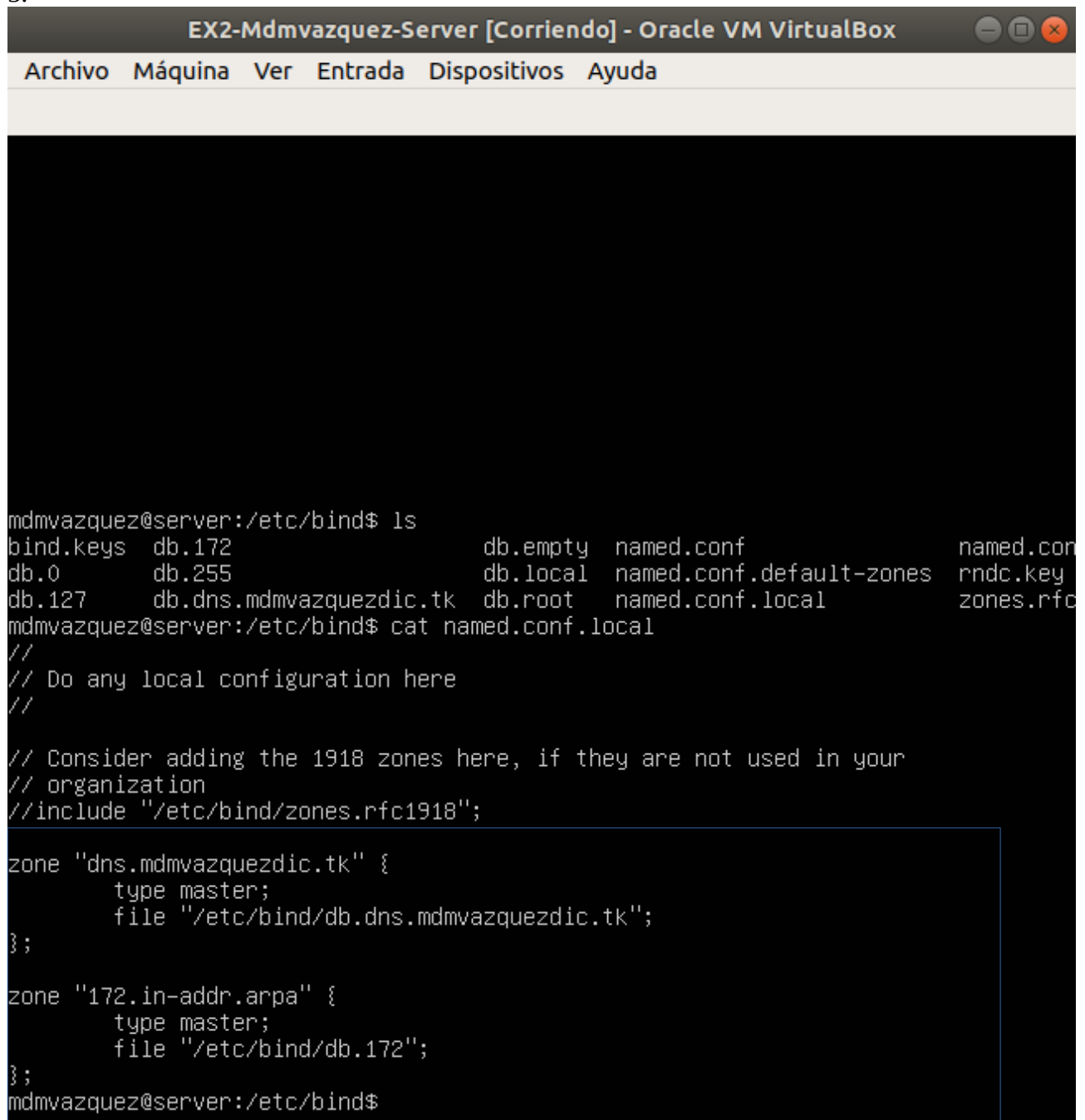
mdmvazquez@client:~$ ip -c a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP gro
0
    link/ether 08:00:27:66:a2:16 brd ff:ff:ff:ff:ff:ff
    inet 192.168.96.207/20 brd 192.168.111.255 scope global enp0s3
        valid_lft forever preferred_lft forever
    inet6 fe80::a00:27ff:fe66:a216/64 scope link
        valid_lft forever preferred_lft forever
3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP gro
0
    link/ether 08:00:27:d5:bc:3f brd ff:ff:ff:ff:ff:ff
    inet 172.16.170.100/24 brd 172.16.170.255 scope global enp0s8
        valid_lft forever preferred_lft forever
    inet6 fe80::a00:27ff:fed5:bc3f/64 scope link
        valid_lft forever preferred_lft forever
mdmvazquez@client:~$
```

-Servidor

```
EX2-Mdmvazquez-Server [Corriendo] - Oracle VM VirtualBox
Archivo  Máquina  Ver  Entrada  Dispositivos  Ayuda

mdmvazquez@server:/etc/bind$ ip -c a
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: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP gro
0
   link/ether 08:00:27:61:b9:21 brd ff:ff:ff:ff:ff:ff
   inet 192.168.105.207/20 brd 192.168.111.255 scope global enp0s3
       valid_lft forever preferred_lft forever
   inet6 fe80::a00:27ff:fe61:b921/64 scope link
       valid_lft forever preferred_lft forever
3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP gro
0
   link/ether 08:00:27:c1:22:bc brd ff:ff:ff:ff:ff:ff
   inet 172.30.170.1/24 brd 172.30.170.255 scope global enp0s8
       valid_lft forever preferred_lft forever
   inet6 fe80::a00:27ff:fec1:22bc/64 scope link
       valid_lft forever preferred_lft forever
mdmvazquez@server:/etc/bind$ _
```

3.



The screenshot shows a terminal window titled "EX2-Mdmvazquez-Server [Corriendo] - Oracle VM VirtualBox". The window has a menu bar with "Archivo", "Máquina", "Ver", "Entrada", "Dispositivos", and "Ayuda". The terminal content shows the user "mdmvazquez" at the "server" machine in the "/etc/bind" directory. They run the command "ls", which lists several files: "bind.keys", "db.172", "db.empty", "named.conf", "named.conf.default-zones", "named.conf.local", "named.conf.local", "db.0", "db.255", "db.local", "rndc.key", "db.127", "db.dns.mdmvazquezdic.tk", "db.root", and "zones.rfc1918". Then, they run "cat named.conf.local", which displays the content of the file, including comments and zone definitions for "dns.mdmvazquezdic.tk" and "172.in-addr.arpa".

```
mdmvazquez@server:/etc/bind$ ls
bind.keys  db.172          db.empty  named.conf      named.conf.default-zones
db.0       db.255          db.local  rndc.key        zones.rfc1918
db.127     db.dns.mdmvazquezdic.tk
db.root    named.conf.local

mdmvazquez@server:/etc/bind$ cat named.conf.local
//
// Do any local configuration here
//

// Consider adding the 1918 zones here, if they are not used in your
// organization
//include "/etc/bind/zones.rfc1918";

zone "dns.mdmvazquezdic.tk" {
    type master;
    file "/etc/bind/db.dns.mdmvazquezdic.tk";
};

zone "172.in-addr.arpa" {
    type master;
    file "/etc/bind/db.172";
};

mdmvazquez@server:/etc/bind$
```

```
mdmvazquez@server:/etc/bind$ cat db.172
;
; BIND reverse data file for local loopback interface
;
$TTL      604800
@         IN      SOA      dns.mdmvazquezdic.tk. admin.mdmvazquezdic.tk. (
        2019121603          ; Serial
        604800              ; Refresh
        86400               ; Retry
        2419200             ; Expire
        604800 )           ; Negative Cache TTL
;
@         IN      NS       mdmvazquezdic.tk.
1.170.16  IN      PTR      mdmvazquezdic.tk.
1.170.16  IN      PTR      dns
254.172.16 IN      PTR      router
100.170.16 IN      PTR      name1
ns        IN      CNAME     dns
ftp       IN      CNAME     name1
mdmvazquez@server:/etc/bind$
```

```
mdmvazquez@server:/etc/bind$ cat db.dns.mdmvazquezdic.tk
;
; BIND data file for local loopback interface
;
$TTL      604800
@         IN      SOA      dns.mdmvazquezdic.tk. admin.mdmvazquezdic.tk. (
                                2019121603          ; Serial
                                604800               ; Refresh
                                86400                ; Retry
                                2419200              ; Expire
                                604800 )             ; Negative Cache TTL
;
@         IN      NS       mdmvazquezdic.tk.
@         IN      A        172.16.170.1
name1.dns.mdmvazquezdic.tk. IN      A        172.16.170.100 ;nombre completo
dns       IN      A        172.16.170.1      ;nombre abreviado
router   IN      A        172.16.170.254
ns       IN      CNAME     dns
ftp      IN      CNAME     name1
mdmvazquez@server:/etc/bind$ _
```