1.-a) Servidor

```
ServerEva1 [Corriendo] - Oracle VM VirtualBox
                                                                          Archivo Máguina Ver Entrada Dispositivos Ayuda
mdmvazquez@server–eva1:/$ 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.
♥ 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:
        enpOs3:
            dhcp4: true
       enpOs8:
            addresses: [10.0.170.1/24]
            gateway4: 10.0.170.254
           nameservers:
                 addresses: [10.0.170.1 , 1.1.1.1]
                 search: [vazquez1.es]
   version: 2
mdmvazquez@server–eva1:/$ _
```

### b) Cliente

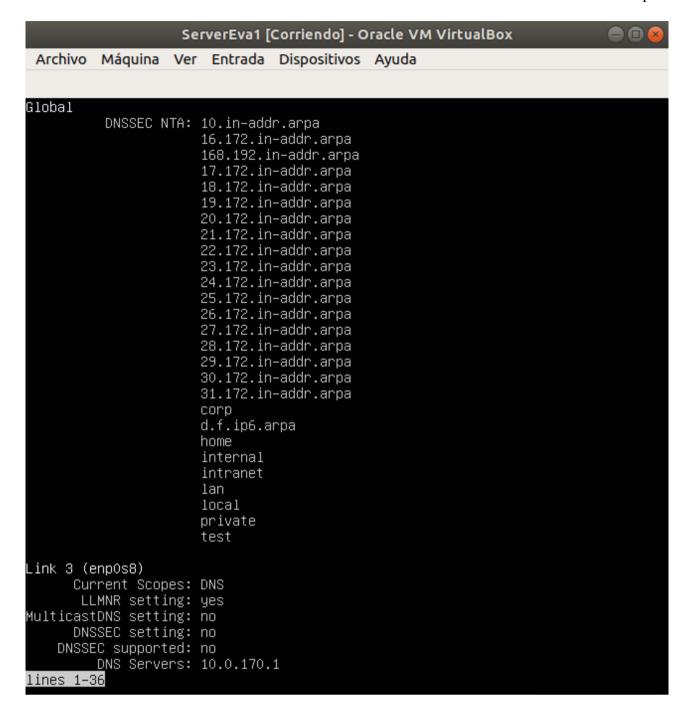
```
ClienteEva1 [Corriendo] - Oracle VM VirtualBox
 Archivo Máquina Ver Entrada Dispositivos Ayuda
mdmvazquez@client–eva1:~$ cat /etc/netplan/50–cloud–init.yaml
 This file is generated from information provided by
# the datasource. Changes to it will not persist across an instance.
# To disable cloud–init's network configuration capabilities, write a file
 /etc/cloud/cloud.cfg.d/99-disable-network-config.cfg with the following:
 network: {config: disabled}
network:
    ethernets:
        enpOs3:
             dhcp4: true
        enp0s8:
             dhcp4: true
        enp0s9:
             dhcp4: true
    version: 2
ndmvazquez@client–eva1:~$
```

2.-

```
a) Servidor
```

```
ServerEva1 [Corriendo] - Oracle VM VirtualBox
 Archivo Máguina Ver Entrada Dispositivos Ayuda
mdmvazquez@server–eva1:/$ 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: enpOs3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP gro
    link/ether 08:00:27:75:a2:a1 brd ff:ff:ff:ff:ff
    inet6 fe80::a00:27ff:fe75:a2a1/64 scope link
       valid_lft forever preferred_lft forever
3: enpOs8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP gro
    link/ether 08:00:27:22:c6:22 brd ff:ff:ff:ff:ff
    inet 10.0.170.1/24 brd 10.0.170.255 scope global enp0s8
      valid_lft forever preferred_lft forever
    inet6 fe80::a00:27ff:fe22:c622/64 scope link
      valid_lft forever preferred_lft forever
mdmvazquez@server–eva1:/$ _
```

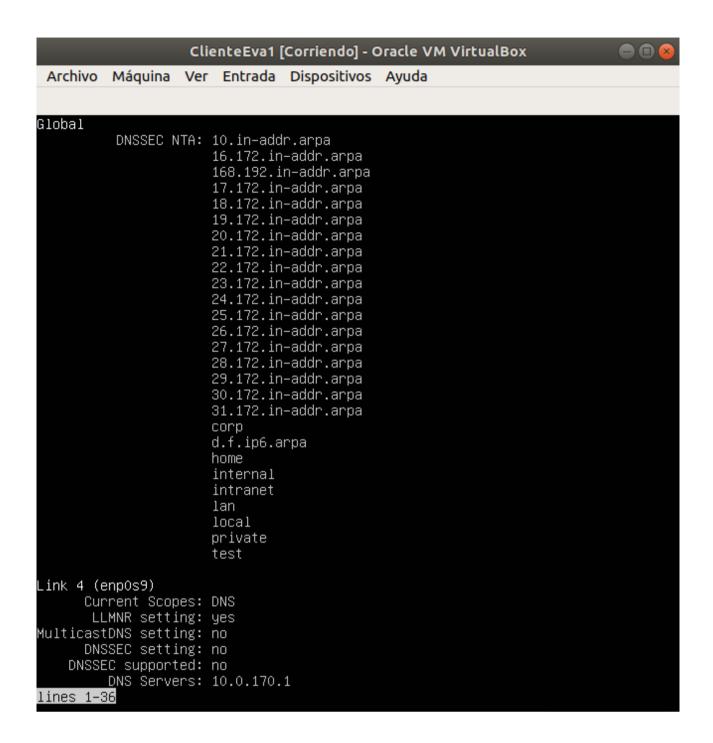
## ServerEval [Corriendo] - Oracle VM VirtualBox Archivo Máquina Ver Entrada Dispositivos Ayuda mdmvazquez@server-eval:/\$ ip route show default via 10.0.170.254 dev enp0s8 proto static 10.0.170.0/24 dev enp0s8 proto kernel scope link src 10.0.170.1 mdmvazquez@server-eval:/\$



### b) Cliente

```
ClienteEva1 [Corriendo] - Oracle VM VirtualBox
 Archivo Máguina Ver Entrada Dispositivos Ayuda
mdmvazquez@client–eva1:~$ 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
   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: enpOs3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP gro
   link/ether 08:00:27:5b:ed:49 brd ff:ff:ff:ff:ff
   inet6 fe80::a00:27ff:fe5b:ed49/64 scope link
      valid_lft forever preferred_lft forever
3: enpOs8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP gro
   link/ether 08:00:27:30:e2:d2 brd ff:ff:ff:ff:ff
   inet 10.0.170.100/24 brd 10.0.170.255 scope global dynamic enp0s8
      valid_lft 86366sec preferred_lft 86366sec
   inet6 fe80::a00:27ff:fe30:e2d2/64 scope link
      valid_lft forever preferred_lft forever
4: enpOs9: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP gro
   link/ether 08:00:27:1b:b3:83 brd ff:ff:ff:ff:ff
   inet 10.0.170.150/24 brd 10.0.170.255 scope global dynamic enp0s9
      valid_lft 7152sec preferred_lft 7152sec
   inet6 fe80::a00:27ff:fe1b:b383/64 scope link
      valid_lft forever preferred_lft forever
mdmvazquez@client–eva1:~$ _
```

# ClienteEva1 [Corriendo] - Oracle VM VirtualBox Archivo Máquina Ver Entrada Dispositivos Ayuda mdmvazquez@client-eva1:~\$ ip route show default via 10.0.170.254 dev enp0s9 proto dhcp src 10.0.170.150 metric 100 default via 10.0.170.254 dev enp0s8 proto dhcp src 10.0.170.100 metric 100 10.0.170.0/24 dev enp0s9 proto kernel scope link src 10.0.170.150 10.0.170.0/24 dev enp0s8 proto kernel scope link src 10.0.170.100 10.0.170.254 dev enp0s9 proto dhcp scope link src 10.0.170.150 metric 100 10.0.170.254 dev enp0s8 proto dhcp scope link src 10.0.170.100 metric 100 mdmvazquez@client-eva1:~\$ \_



3.-

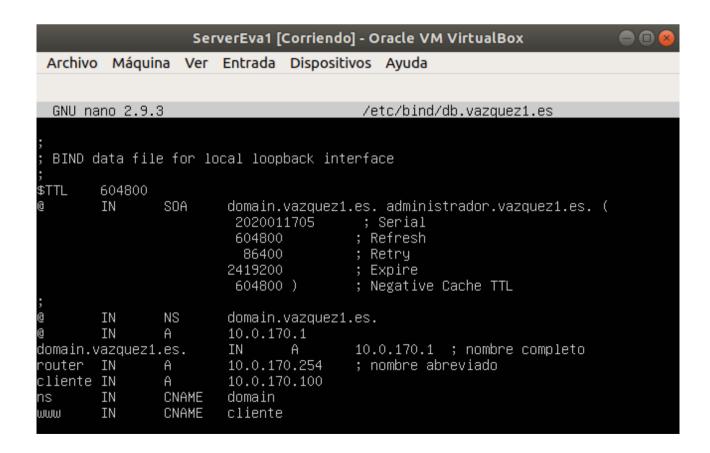
```
Archivo Máquina Ver Entrada Dispositivos Ayuda

GNU nano 2.9.3 /etc/bind/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 "vazquez1.es" {
   type master;
   file "/etc/bind/db.vazquez1.es";
};

zone "170.0.10.in-addr.arpa" {
    type master;
   file "/etc/bind/db.10";
};
```

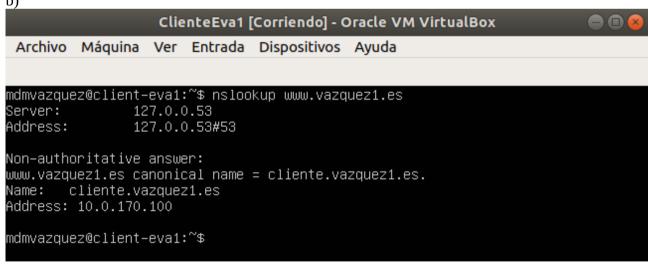


## ServerEva1 [Corriendo] - Oracle VM VirtualBox Archivo Máguina Ver Entrada Dispositivos Ayuda GNU nano 2.9.3 /etc/bind/named.conf.options options { directory "/var/cache/bind"; // If there is a firewall between you and nameservers you want // to talk to, you may need to fix the firewall to allow multiple // ports to talk. See http://www.kb.cert.org/vuls/id/800113 // If your ISP provided one or more IP addresses for stable // nameservers, you probably want to use them as forwarders. // Uncomment the following block, and insert the addresses replacing // the all-0's placeholder. // forwarders { 8.8.8.8 ; 8.8.4.4; // 3; // If BIND logs error messages about the root key being expired, // you will need to update your keys. See https://www.isc.org/bind-keys dnssec-validation auto; auth-nxdomain no; # conform to RFC1035 listen-on-v6 { any; };

4.a)

```
ClienteEva1 [Corriendo] - Oracle VM VirtualBox
 Archivo Máguina Ver Entrada Dispositivos Ayuda
mdmvazquez@client–eva1:~$ dig router.vazquez1.es
; <<>> DiG 9.11.3–1ubuntu1.11–Ubuntu <<>> router.vazquez1.es
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 47531
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 65494
;; QUESTION SECTION:
;router.vazquez1.es.
                                ΙN
;; ANSWER SECTION:
                       604800 IN
router.vazquez1.es.
                                                10.0.170.254
;; Query time: 3 msec
;; SERVER: 127.0.0.53#53(127.0.0.53)
;; WHEN: Fri Jan 17 17:11:16 UTC 2020
;; MSG SIZE rcvd: 63
mdmvazquez@client–eva1:~$
```

b)



f)

ClienteEva1 [Corriendo] - Oracle VM VirtualBox

Archivo Máquina Ver Entrada Dispositivos Ayuda

mdmvazquez@client-eva1:~\$ sudo systemd-resolve --flush-caches
[sudo] password for mdmvazquez:
mdmvazquez@client-eva1:~\$