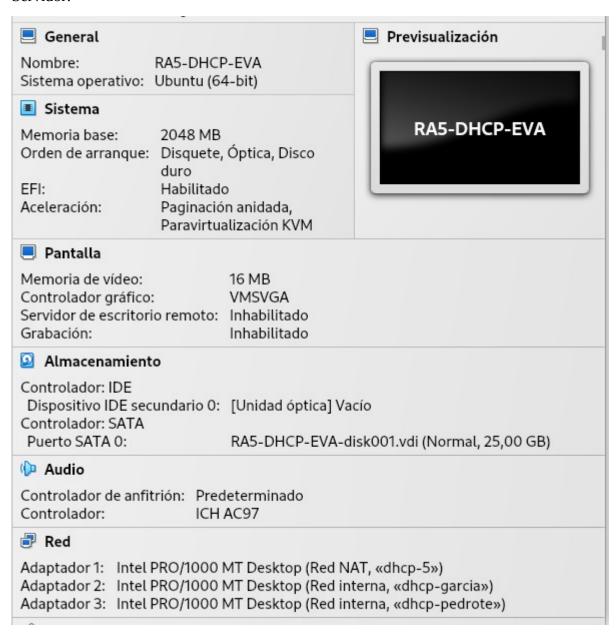
RA5-EX1-EVA-JGarcia

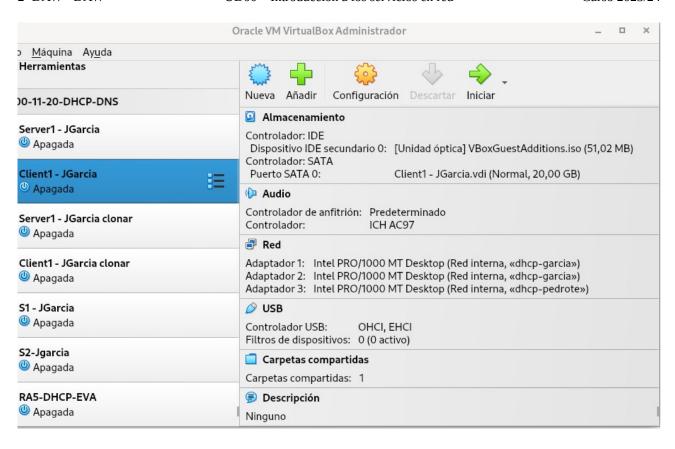
PARTE 1

a)

Servidor:



Cliente:



PARTE 2

<u>a)</u>

```
igarcia@ra5–dhcp–s1:~$ cat /etc/netplan/00–installer–config.yaml
! This is the network config written by 'subiquity'
etwork:
  ethernets:
     enp0s3:
        dhcp4: true
        dhcp4: false
addresses: [ 172.16.5.10/24 ]
        nameservers:
search: [garcia.tk]
addresses: [8.8.8.8, 8.8.4.4]
        dhcp4: false
addresses: [ 192.168.5.10/24 ]
gateway4: 192.168.5.255
        nameservers:
search: [pedrote.tk]
addresses: [8.8.8.8, 8.8.4.4]
version: 2
jgarcia@ra5-dhcp-s1:~$ sudo netplan apply
** (generate:15211): WARNING **: 17:49:23.338: Permissions for /etc/netplan/00–installer–config.yaml are too open. Netplan confi
guration should NOT be accessible by others.
** (generate:15211): WARNING **: 17:49:23.338: `gateway4` has been deprecated, use default routes instead.
See the 'Default routes' section of the documentation for more details.
WARNING:root:Cannot call Open vSwitch: ovsdb–server.service is not running.
** (process:15209): WARNING **: 17:49:23.749: Permissions for /etc/netplan/00–installer–config.yaml are too open. Netplan config
uration should NOT be accessible by others.
** (process:15209): WARNING **: 17:49:23.750: `gateway4` has been deprecated, use default routes instead.
See the 'Default routes' section of the documentation for more details.
** (process:15209): WARNING **: 17:49:23.874: Permissions for /etc/netplan/00–installer–config.yaml are too open. Netplan config
uration should NOT be accessible by others.
** (process:15209): WARNING **: 17:49:23.874: `gateway4` has been deprecated, use default routes instead.
See the 'Default routes' section of the documentation for more details.
** (process:15209): WARNING **: 17:49:23.874: Permissions for /etc/netplan/00–installer–config.yaml are too open. Netplan config
uration should NOT be accessible by others.
** (process:15209): WARNING **: 17:49:23.874: `gateway4` has been deprecated, use default routes instead.
See the 'Default routes' section of the documentation for more details.
jgarcia@ra5–dhcp–s1:~$
```

b)

- cat de /etc/default/isc-dhcp-server :

```
jgarcia@ra5–dhcp–s1:~$ cat /etc/default/isc–dhcp–server
INTERFACESv4="enp0s8 enp0s9"
INTERFACESv6=""
igarcia@ra5–dhcn–s1:~$
```

-cat de /etc/dhcp/dhcpd.conf :

```
jgarcia@ra5–dhcp–s1:~$ cat /etc/dhcp/dhcpd.conf
ddns–update–style none;
subnet 172.16.5.0 netmask 255.255.255.0 {
 range 172.16.5.100 172.16.5.150;
 option domain-name-servers 172.16.5.10;
 option domain-name "garcia.tk";
 option subnet-mask 255.255.255.0;
 option routers 172.16.5.10;
 option broadcast—address 172.16.5.255;
 default-lease-time 1200;
 max-lease-time 10800;
host cliente–5 {
 hardware ethernet 08:00:27:e0:a1:db;
 fixed-address 172.16.5.200;
 option domain-name-servers 8.8.8.8, 8.8.4.4;
 default-lease-time 3600;
subnet 192.168.5.0 netmask 255.255.255.0 {
 range 192.168.5.100 192.168.5.150;
 option domain–name–servers 192.168.5.10, 8.8.8.8, 8.8.4.4; option domain–name "pedrote.tk";
 option subnet-mask 255.255.255.0;
 option routers 192.168.5.10;
 option broadcast-address 192.168.5.255;
 default-lease-time 1200;
jgarcia@ra5−dhcp−s1:~$
```

c)

- IP interfaz1 servidor:

d)

-Interfaz2 servidor:

-IP:

```
jgarcia@ra5-dhcp-s1:~$ ip -c a show enp0s8
3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000 link/ether 08:00:27:a6:ab:3c brd ff:ff:ff:ff:ff
    inet 172.16.5.10/24 brd 172.16.5.255 scope global enp0s8
       valid_lft forever preferred_lft forever
    inet6 fe80::a00:27ff:fea6:ab3c/64 scope link
       valid_lft forever preferred_lft forever
    jgarcia@ra5-dhcp-s1:~$ _
```

-DNS:

```
jgarcia@ra5–dhcp–s1:~$ resolvectl status enpOs8
Link 3 (enpOs8)
Current Scopes: DNS
Protocols: +DefaultRoute +LLMNR –mDNS –DNSOverTLS DNSSEC=no/unsupported
DNS Servers: 8.8.8.8 8.8.4.4
DNS Domain: garcia.tk
jgarcia@ra5–dhcp–s1:~$
```

-Puerta de enlace:

```
jgarcia@ra5–dhcp–s1:~$ ip route list | grep enp0s8
172.16.5.0/24 dev <mark>enp0s8</mark> proto kernel scope link src 172.16.5.10
jgarcia@ra5–dhcp–s1:~$ _
```

e)

-Interfaz3 servidor:

-IP:

```
jgarcia@ra5-dhcp-s1:~$ ip -c a show enp0s9
4: enp0s9: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
link/ether 08:00:27:fe:be:a4 brd ff:ff:ff:ff:ff
inet 192.168.5.10/24 brd 192.168.5.255 scope global enp0s9
valid_lft forever preferred_lft forever
inet6 fe80::a00:27ff:fefe:bea4/64 scope link
valid_lft forever preferred_lft forever
jgarcia@ra5-dhcp-s1:~$ _
```

-DNS:

```
jgarcia@ra5–dhcp–s1:~$ resolvectl status enpOs9
Link 4 (enpOs9)
Current Scopes: DNS
Protocols: +DefaultRoute +LLMNR –mDNS –DNSOverTLS DNSSEC=no/unsupported
DNS Servers: 8.8.8.8 8.8.4.4
DNS Domain: pedrote.tk
jgarcia@ra5–dhcp–s1:~$ _
```

-Puerta de enlace:

```
jgarcia@ra5–dhcp–s1:~$ ip route list | grep enpOs9
192.168.5.0/24 dev <mark>enpOs9</mark> proto kernel scope link src 192.168.5.10
jgarcia@ra5–dhcp–s1:~$
```

f)

-Interfaz1 cliente:

-IP:

```
jgarcia@client1:~$ ip -c a show enp0s3
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:e0:a1:db brd ff:ff:ff:ff:
    inet 172.16.5.200/24 brd 172.16.5.255 scope global dynamic noprefixroute enp0s3
        valid_lft 2646sec preferred_lft 2646sec
    inet6 fe80::e6b9:e7a7:ce10:5635/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
jgarcia@client1:~$
```

-DNS:

```
jgarcia@client1:~$ resolvectl status enp0s3
Link 2 (enp0s3)
    Current Scopes: DNS
        Protocols: +DefaultRoute +LLMNR -mDNS -DNSOverTLS DNSSEC=no/unsupported
Current DNS Server: 8.8.8.8
        DNS Servers: 8.8.8.8 8.8.4.4
        DNS Domain: garcia.tk
jgarcia@client1:~$
```

-Puerta de enlace:

```
jgarcia@client1:~$ ip route list | grep enp0s3
default via 172.16.5.10 dev enp0s3 proto dhcp metric 20100
169.254.0.0/16 dev enp0s3 scope link metric 1000
172.16.5.0/24 dev enp0s3 proto kernel scope link src 172.16.5.200 metric 100
jgarcia@client1:~$
```

g)

-Interfaz2 cliente:

-IP:

```
jgarcia@client1:-$ ip -c a show enp0s8
3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:1c:f7:4b brd ff:ff:ff:fff
    inet 172.16.5.100/24 brd 172.16.5.255 scope global dynamic noprefixroute enp0s8
    valid_lft 791sec preferred_lft 791sec
    inet6 fe80::d72b:68e1:8f2f:ceae/64 scope link noprefixroute
    valid_lft forever preferred_lft forever
jgarcia@client1:-$
```

-DNS:

```
jgarcia@client1:~$ resolvectl status enp0s8
Link 3 (enp0s8)
    Current Scopes: DNS
        Protocols: +DefaultRoute +LLMNR -mDNS -DNSOverTLS DNSSEC=no/unsupported
Current DNS Server: 172.16.5.10
        DNS Servers: 172.16.5.10
        DNS Domain: garcia.tk
jgarcia@client1:~$
```

-Puerta de enlace:

```
jgarcia@client1:~$ ip route list | grep enp0s8
default via 172.16.5.10 dev enp0s8 proto dhcp metric 20101
172.16.5.0/24 dev enp0s8 proto kernel scope link src 172.16.5.100 metric 101
jgarcia@client1:~$
```

h)

-Interfaz3 cliente:

-IP:

```
jgarcia@client1:~$ ip -c a show enp0s9
4: enp0s9: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:cf:9a:bb brd ff:ff:ff:ff:
    inet 192.168.5.100/24 brd 192.168.5.255 scope global dynamic noprefixroute enp0s9
        valid_lft 690sec preferred_lft 690sec
    inet6 fe80::7db:228d:da3f:fff2/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
jgarcia@client1:~$
```

-DNS:

```
jgarcia@client1:~$ resolvectl status enp0s9
Link 4 (enp0s9)
    Current Scopes: DNS
        Protocols: +DefaultRoute +LLMNR -mDNS -DNSOverTLS DNSSEC=no/unsupported
Current DNS Server: 192.168.5.10
        DNS Servers: 192.168.5.10 8.8.8.8 8.8.4.4
        DNS Domain: pedrote.tk
jgarcia@client1:~$
```

-Puerta de enlace:

```
jgarcia@client1:~$ ip route list | grep enp0s9
default via 192.168.5.10 dev enp0s9 proto dhcp metric 20102
192.168.5.0/24 dev enp0s9 proto kernel scope link src 192.168.5.100 metric 102
jgarcia@client1:~$
```

i)

Liberar interfaz2 del servidor:

jgarcia@ra5–dhcp–s1:~\$ sudo dhclient –r enpOs8 jgarcia@ra5–dhcp–s1:~\$

j)

Apagar interfaz3 del cliente:

```
jgarcia@client1:~$ sudo ip link set enp0s9 down
[sudo] contraseña para jgarcia:
jgarcia@client1:~$ ip -c a show enp0s9
4: enp0s9: <BROADCAST,MULTICAST> mtu 1500 qdisc fq_codel state DOWN group default qlen 1000
    link/ether 08:00:27:cf:9a:bb brd ff:ff:ff:ff
    inet 192.168.5.100/24 brd 192.168.5.255 scope global dynamic noprefixroute enp0s9
        valid_lft 766sec preferred_lft 766sec
    inet6 fe80::a156:9916:69f6:d4a1/64 scope link tentative noprefixroute
        valid_lft forever preferred_lft forever
jgarcia@client1:~$
```

k)

Encender interfaz3 del cliente:

```
jgarcia@client1:~$ sudo ip link set enp0s9 up
jgarcia@client1:~$ ip -c a show enp0s9
4: enp0s9: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:cf:9a:bb brd ff:ff:ff:ff
    inet 192.168.5.100/24 brd 192.168.5.255 scope global dynamic noprefixroute enp0s9
        valid_lft 1197sec preferred_lft 1197sec
    inet6 fe80::7db:228d:da3f:fff2/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
jgarcia@client1:~$
```