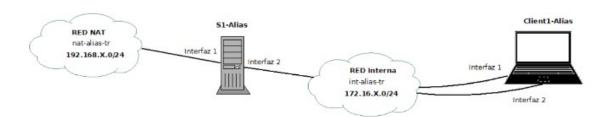
Examen:

T0 - RA5 - Examen - DHCP Práctico

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ENTREGA PARTE 1:

Captura de máquina servidor



Captura máquina cliente



ENTREGA PARTE 2:

A)

2

B)

```
jcordero@ra5–dhcp–s1:/etc/netplan$ cat /etc/dhcp/dhcpd.conf
 option domain-name "example.org";
 option domain-name-servers ns1.example.org, ns2.example.org;
 default-lease-time 600;
 max-lease-time 7200;
 ddns-update-style none;
 subnet 172.16.1.0 netmask 255.255.255.0 {
   range 172.16.1.100 172.16.1.150;
   option domain-name-servers 172.16.1.10;
   option domain-name "cordero.tk";
   option broadcast-address 172.16.1.255;
   option subnet-mask 255.255.255.0;
  option routers 172.16.1.10;
   default-lease-time 1200;
option subnet-mask 255.255.255.0;
   max-lease-time 10800;
subnet 192.168.1.0 netmask 255.255.255.0 {
   range 192.168.1.100 192.168.1.150;
   option domain-name-servers 192.168.1.10, 8.8.8.8, 8.8.4.4; option domain-name "avila.tk";
   option broadcast-address 192.168.1.255;
   option subnet-mask 255.255.255.0;
   option routers 172.16.1.10;
   default-lease-time 600;
   max-lease-time 7200;
<sup>l:</sup>host cliente {
   hardware ethernet 08:00:27:81:16:59;
   fixed-address 172.16.1.200;
   default-lease-time 3600;
.jcordero@ra5–dhcp–s1:/etc/netplan$
```

C)

```
jcordero@ra5-dhcp-s1:/etc/netplan$ 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:f3:b5:bf brd ff:ff:ff:ff
    inet 10.1.0.4/16 metric 100 brd 10.1.255.255 scope global dynamic enp0s3
    valid_lft 513sec preferred_lft 513sec
    inet6 fe80::a00:27ff:fef3:b5bf/64 scope link
    valid_lft forever preferred_lft forever
jcordero@ra5-dhcp-s1:/etc/netplan$
```

D)

-IP, BROADCAST

```
jcordero@ra5-dhcp-s1:/etc/netplan$ ip -c a show enp0s8
3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default glen 1000
    link/ether 08:00:27:77:6f:af brd ff::ff:ff:ff:
    inet 172.16.1.10/24 brd 172.16.1.255 scope global enp0s8
        valid_lft forever preferred_lft forever
    inet6 fe80::a00:27ff:fe77:6faf/64 scope link
        valid_lft forever preferred_lft forever
jcordero@ra5-dhcp-s1:/etc/netplan$
```

-PUERTA DE ENLACE

```
jcordero@ra5–dhcp–s1:/etc/netplan$ ip route list | grep "enp0s8"
172.16.1.0/24 dev <mark>enp0s8</mark> proto kernel scope link src 172.16.1.10
jcordero@ra5–dhcp–s1:/etc/netplan$ _
```

-DNS

```
jcordero@ra5–dhcp–s1:/etc/netplan$ 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: cordero.tk
jcordero@ra5–dhcp–s1:/etc/netplan$ _
```

E)

-IP. BROADCAST

```
jcordero@ra5-dhcp-s1:/etc/netplan$ 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 08:00:27:4a:b5:9d brd ff:ff:ff:ff:ff
    inet 192.168.1.10/24 brd 192.168.1.255 scope global enp0s9
        valid_lft forever preferred_lft forever
    inet6 fe80::a00:27ff:fe4a:b59d/64 scope link
        valid_lft forever preferred_lft forever
jcordero@ra5-dhcp-s1:/etc/netplan$
```

-PUERTA DE ENLACE

```
jcordero@ra5–dhcp–s1:/etc/netplan$ ip route list | grep "enp0s9"
192.168.1.0/24 dev <mark>enp0s9</mark> proto kernel scope link src 192.168.1.10
jcordero@ra5–dhcp–s1:/etc/netplan$ _
```

-DNS

```
jcordero@ra5-dhcp-s1:/etc/netplan$ 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: avila.tk
jcordero@ra5-dhcp-s1:/etc/netplan$
```

F)

-IP, BROADCAST

```
jcordero@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 08:00:27:81:16:59 brd ff:ff:ff:ff:ff
    inet 172.16.1.200/24 brd 172.16.1.255 scope global dynamic noprefixroute enp0s3
        valid_lft 2573sec preferred_lft 2573sec
    inet6 fe80::9309:1aa6:35ef:4336/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
jcordero@client1:-$
```

-PUERTA DE ENLACE

```
jcordero@client1:~$ ip route list | grep "enp0s3"
default via 172.16.1.10 dev enp0s3 proto dhcp metric 20100
169.254.0.0/16 dev enp0s3 scope link metric 1000
Terminal 0/24 dev enp0s3 proto kernel scope link src 172.16.1.200 metric 100
jcordero@client1:~$
```

-DNS

```
jcordero@client1:-$ resolvectl status enp0s3
Link 2 (enp0s3)
    Current Scopes: DNS
        Protocols: +DefaultRoute +LLMNR -mDNS -DNSOverTLS DNSSEC=no/unsupported
Current DNS Server: 172.16.1.10
        DNS Servers: 172.16.1.10
        DNS Domain: cordero.tk
jcordero@client1:-$
```

G)

-IP, BROADCAST

```
jcordero@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 08:00:27:31:87:c9 brd ff:ff:ff:ff:ff
inet 172.16.1.100/24 brd 172.16.1.255 scope global dynamic noprefixroute enp0s8
   valid_lft 1095sec preferred_lft 1095sec
inet6 fe80::5ad:665d:ec7f:5016/64 scope link noprefixroute
   valid_lft forever preferred_lft forever
jcordero@client1:~$
```

-PUERTA DE ENLACE

```
jcordero@client1:~$ ip route list | grep "enp0s8"
default via 172.16.1.10 dev enp0s8 proto dhcp metric 20101
172.16.1.0/24 dev enp0s8 proto kernel scope link src 172.16.1.100 metric 101
jcordero@client1:~$
```

-DNS

```
jcordero@client1:~$ resolvectl status enp0s8
Link 3 (enp0s8)
   Current Scopes: DNS
        Protocols: +DefaultRoute +LLMNR -mDNS -DNSOverTLS DNSSEC=no/unsupported
Current DNS Server: 172.16.1.10
        DNS Servers: 172.16.1.10
        DNS Domain: cordero.tk
jcordero@client1:~$
```

H)

-IP, BROADCAST

```
jcordero@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 08:00:27:69:4c:19 brd ff:ff:ff:ff:ff
    inet 192.168.1.100/24 brd 192.168.1.255 scope global dynamic noprefixroute enp0s9
    valid_lft 389sec preferred_lft 389sec
    inet6 fe80::aa:clb5:6f4e:cb84/64 scope link noprefixroute
    valid_lft forever preferred_lft forever
jcordero@client1:-$
```

-PUERTA DE ENLACE

```
jcordero@client1:~$ ip route list | grep "enp0s9"
default via 172.16.1.10 dev enp0s9 proto dhcp metric 20102
172.16.1.10 dev enp0s9 proto dhcp scope link metric 20102
192.168.1.0/24 dev enp0s9 proto kernel scope link src 192.168.1.100 metric 102
jcordero@client1:~$
```

-DNS

```
jcordero@client1:~$ resolvectl status enp0s9
Link 4 (enp0s9)
    Current Scopes: DNS
        Protocols: +DefaultRoute +LLMNR -mDNS -DNSOverTLS DNSSEC=no/unsupported
Current DNS Server: 192.168.1.10
        DNS Servers: 192.168.1.10 8.8.8.8 8.8.4.4
        DNS Domain: avila.tk
jcordero@client1:~$
```

I)

```
jcordero@ra5–dhcp–s1:/etc/netplan$ sudo dhclient –r enp0s8
[sudo] password for jcordero:
jcordero@ra5–dhcp–s1:/etc/netplan$ _
```

J)

```
jcordero@client1:~$ sudo ip link set enp0s9 down
jcordero@client1:~$ ip -c a show enp0s9
4: enp0s9: <BROADCAST,MULTICAST> mtu 1500 qdisc fq_codel state DOWN group default qlen 1000
    link/ether 08:00:27:69:4c:19 brd ff:ff:ff:ff:ff
jcordero@client1:~$
```

K)

```
jcordero@client1:-$ sudo ip link set enp0s9 up
jcordero@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 08:00:27:69:4c:19 brd ff:ff:ff:ff:
    inet 192.168.1.100/24 brd 192.168.1.255 scope global dynamic noprefixroute enp0s9
        valid_lft 598sec preferred_lft 598sec
    inet6 fe80::aa:c1b5:6f4e:cb84/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
jcordero@client1:-$
```