

ACTIVIDAD 02 – CONFIGURACIÓN DHCP

- cat del fichero de configuración de red de “S1-Alias”

```
jgarcia@S1:/etc/netplan$ cat 00-installer-config.yaml
# This is the network config written by 'subiquity'
network:
  ethernets:
    enp0s3:
      dhcp4: true
    enp0s8:
      addresses: [172.16.5.1/24]
      nameservers:
        addresses: [8.8.8.8, 8.8.4.4]
  version: 2
jgarcia@S1:/etc/netplan$ _
```

- Consulta, por línea de comando, la configuración de red de la interfaz 1 de “S1-Alias” IP, puerta de enlace y DNS

```
jgarcia@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:d9:5e:93 brd ff:ff:ff:ff:ff:ff
    inet 192.168.5.4/24 metric 100 brd 192.168.5.255 scope global dynamic enp0s3
        valid_lft 505sec preferred_lft 505sec
    inet6 fe80::a00:27ff:fed9:5e93/64 scope link
        valid_lft forever preferred_lft forever
jgarcia@S1:/etc/netplan$ _
```

Puerta de enlace:

```
jgarcia@S1:/etc/netplan$ ip route | grep enp0s3
default via 192.168.5.1 dev enp0s3 proto dhcp src 192.168.5.4 metric 100
10.118.65.53 via 192.168.5.1 dev enp0s3 proto dhcp src 192.168.5.4 metric 100
10.253.2.160 via 192.168.5.1 dev enp0s3 proto dhcp src 192.168.5.4 metric 100
192.168.5.0/24 dev enp0s3 proto kernel scope link src 192.168.5.4 metric 100
192.168.5.1 dev enp0s3 proto dhcp scope link src 192.168.5.4 metric 100
192.168.96.17 via 192.168.5.1 dev enp0s3 proto dhcp src 192.168.5.4 metric 100
```

DNS:

```
jgarcia@S1:/etc/netplan$ resolvectl status enp0s3
Link 2 (enp0s3)
Current Scopes: DNS
    Protocols: +DefaultRoute +LLMNR -mDNS -DNSOverTLS DNSSEC=no/unsupported
    DNS Servers: 192.168.96.17 10.253.2.160 10.118.65.53
jgarcia@S1:/etc/netplan$
```

- Consulta, por línea de comando, la configuración de red de la interfaz 2 de “S1-Alias” IP, puerta de enlace y DNS

IP:

```
jgarcia@S1:/etc/netplan$ 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:f7:ed:8e brd ff:ff:ff:ff:ff:ff
    inet 172.16.5.1/24 brd 172.16.5.255 scope global enp0s8
        valid_lft forever preferred_lft forever
    inet6 fe80::a00:27ff:fe7:ed8e/64 scope link
        valid_lft forever preferred_lft forever
jgarcia@S1:/etc/netplan$ _
```

Puerta de enlace(no tiene):

```
jgarcia@S1:/etc/netplan$ ip route | grep enp0s8
172.16.5.0/24 dev enp0s8 proto kernel scope link src 172.16.5.1
```

DNS:

```
jgarcia@S1:/etc/netplan$ resolvectl status enp0s8
Link 3 (enp0s8)
    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
jgarcia@S1:/etc/netplan$
```

- Apaga la interfaz 1 de red del “S1-Alias”, por línea de comando

```
jgarcia@S1:/etc/netplan$ sudo ip link set enp0s3 down
[sudo] password for jgarcia:
jgarcia@S1:/etc/netplan$ ip a show enp0s3
2: enp0s3: <BROADCAST,MULTICAST> mtu 1500 qdisc fq_codel state DOWN group default qlen 1000
    link/ether 08:00:27:d9:5e:93 brd ff:ff:ff:ff:ff:ff
jgarcia@S1:/etc/netplan$ _
```

- Levanta la interfaz 1 de red del “S1-Alias”, por línea de comando

```
jgarcia@S1:/etc/netplan$ sudo ip link set enp0s3 up
jgarcia@S1:/etc/netplan$ ip 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:d9:5e:93 brd ff:ff:ff:ff:ff:ff
    inet 192.168.5.4/24 metric 100 brd 192.168.5.255 scope global dynamic enp0s3
        valid_lft 593sec preferred_lft 593sec
    inet6 fe80::a00:27ff:fed9:5e93/64 scope link
        valid_lft forever preferred_lft forever
jgarcia@S1:/etc/netplan$ _
```

- cat de los ficheros de configuración del servicio de DHCP

```
jgarcia@S1:/etc/dhcp$ tail -n 21 dhcpd.conf

subnet 172.16.5.0 netmask 255.255.255.0 {
    range 172.16.5.100 172.16.5.150;
    option domain-name-servers 172.16.5.1;
    option domain-name "iesdonana.org";
    option subnet-mask 255.255.255.0;
    option routers 172.16.5.1;
    option broadcast-address 172.16.5.255;
    default-lease-time 900;
    max-lease-time 1800;
}

host client1-jgarcia {
    hardware ethernet 08:00:27:E0:A1:DB;
    fixed-address 172.16.5.10;
    option routers 172.16.5.1;
    option domain-name-servers 8.8.8.8, 8.8.4.4;
    option domain-name "Google";
    default-lease-time 3600;
    max-lease-time 10800;
}
jgarcia@S1:/etc/dhcp$
```

- Consulta, por línea de comando, la configuración de red de la interfaz 1 de “Client1- Alias”
IP, puerta de enlace y DNS

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:ff:ff
    inet 172.16.5.10/24 brd 172.16.5.255 scope global dynamic noprefixroute enp0s3
        valid_lft 2202sec preferred_lft 2202sec
    inet6 fe80::e6b9:e7a7:ce10:5635/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
jgarcia@client1:~$
```

Puerta de enlace:

```
jgarcia@client1:~$ ip route | grep enp0s3
default via 172.16.5.1 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 172.16.5.10 metric 100
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: 8.8.4.4
        DNS Servers: 8.8.8.8 8.8.4.4
        DNS Domain: Google
jgarcia@client1:~$
```

- Consulta, por línea de comando, la configuración de red de la interfaz 2 de “Client1- Alias” IP, puerta de enlace y DNS

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:ff:ff:ff
    inet 172.16.5.100/24 brd 172.16.5.255 scope global dynamic noprefixroute enp0s8
        valid_lft 815sec preferred_lft 815sec
    inet6 fe80::d72b:68e1:8f2f:ceae/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
jgarcia@client1:~$
```

Puerta de enlace:

```
jgarcia@client1:~$ ip route | grep enp0s8
default via 172.16.5.1 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:~$
```

DNS:

```
jgarcia@client1:~$ resolvectl status enp0s8
Link 3 (enp0s8)
    Current Scopes: DNS
        Protocols: +DefaultRoute +LLMNR -mDNS -DNSOverTLS DNSSEC=no/unsupported
    Current DNS Server: 172.16.5.1
        DNS Servers: 172.16.5.1
        DNS Domain: iesdonana.org
jgarcia@client1:~$
```