

Proposta de solución para Tarefa 4.2

Mostro os ficheiros de configuración de CADA equipo. Cada tarxeta debe estar conectada en VirtualBox na rede interna que corresponda (por exemplo SALAA, SALAB, SALAC, SALA53 e SALA10), e en modo ponte a tarxeta enp0s8 de SAIDA.

Configuración de A #En rede interna SALAA

```
address 192.168.150.1
netmask 255.255.255.192
gateway 192.168.150.5
```

/etc/network/interfaces de Z

Conectará as 2 salas SALAA, e SALA53, e calquera paquete con outro destino a encamiñará a 192.168.53.7 (o router Y)

```
...
#The primary network interface.
#En rede interna SALAA
auto enp0s3
iface enp0s3 inet static
    address 192.168.150.5
    netmask 255.255.255.192

# En rede interna SALA53
iface enp0s8 inet static
    address 192.168.53.1
    netmask 255.255.255.0

#Enrutamento
up ip route add default 192.168.53.7
```

/etc/network/interfaces de Y

Conectará as 3 salas SALA53, SALAB, SALAC e SALA10. Temos que enrutar os paquetes con destino SALAA cara Z (192.168.53.1), e calquera paquete con outro destino será encamiñado a SAIDA (10.0.2.254).

```
...
#The primary network interface.
#En rede interna SALA53
auto enp0s3
iface enp0s3 inet static
    address 192.168.53.7
    netmask 255.255.255.0

# En rede interna SALAC
iface enp0s8 inet static
    address address 192.168.50.5
    netmask 255.255.255.192

# En rede interna SALA10
iface enp0s9 inet static
    address 10.0.0.5
    netmask 255.0.0.0

# En rede interna SALAB
iface enp0s10 inet static
    address 192.168.200.5
    netmask 255.255.255.128

#Enrutamento
up ip route add 192.168.150.0/26 via 192.168.53.1
up ip route add default 10.0.2.254
```

Configuración de B #En rede interna SALAB

```
address 192.168.200.1
netmask 255.255.255.128
gateway 192.168.200.5
```

Configuración de C #En rede interna SALAC

```
#The primary network interface.
# En rede interna SALAC

iface enp0s3 inet static
    address 192.168.50.1
    netmask 255.255.255.192
    gateway 192.168.50.5
```

/etc/network/interfaces de SAIDA

Primeiro temos que configurar a tarxeta enp0s8 para facer NAT como vén nos apuntes.

Temos que enrutar os paquetes con destino 192.168.150.0/26, 192.168.200.0/25, 192.168.50.0/26, e 192.168.53.0/24 cara o router Y (10.0.0.5), e calquera paquete con outro destino será encamiñado cara o router de casa (192.168.1.1, no meu caso).

Así:

```
...
#The primary network interface.
# En rede interna SALA10

iface enp0s3 inet static
    address 10.0.2.254
    netmask 255.0.0.0

# En MODO PONTE
iface enp0s8 inet static
    address 192.168.1.222
    netmask 255.255.255.0

#Enrutamento

up ip route add 192.168.150.0/26 via 10.0.0.5
up ip route add 192.168.200.0/25 via 10.0.0.5
up ip route add 192.168.50.0/26 via 10.0.0.5
up ip route add 192.168.53.0/24 via 10.0.0.5
up ip route add default 192.168.1.1
```