

# Practica - CDAR



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# Dispositivos – Switch y Hub



Hub

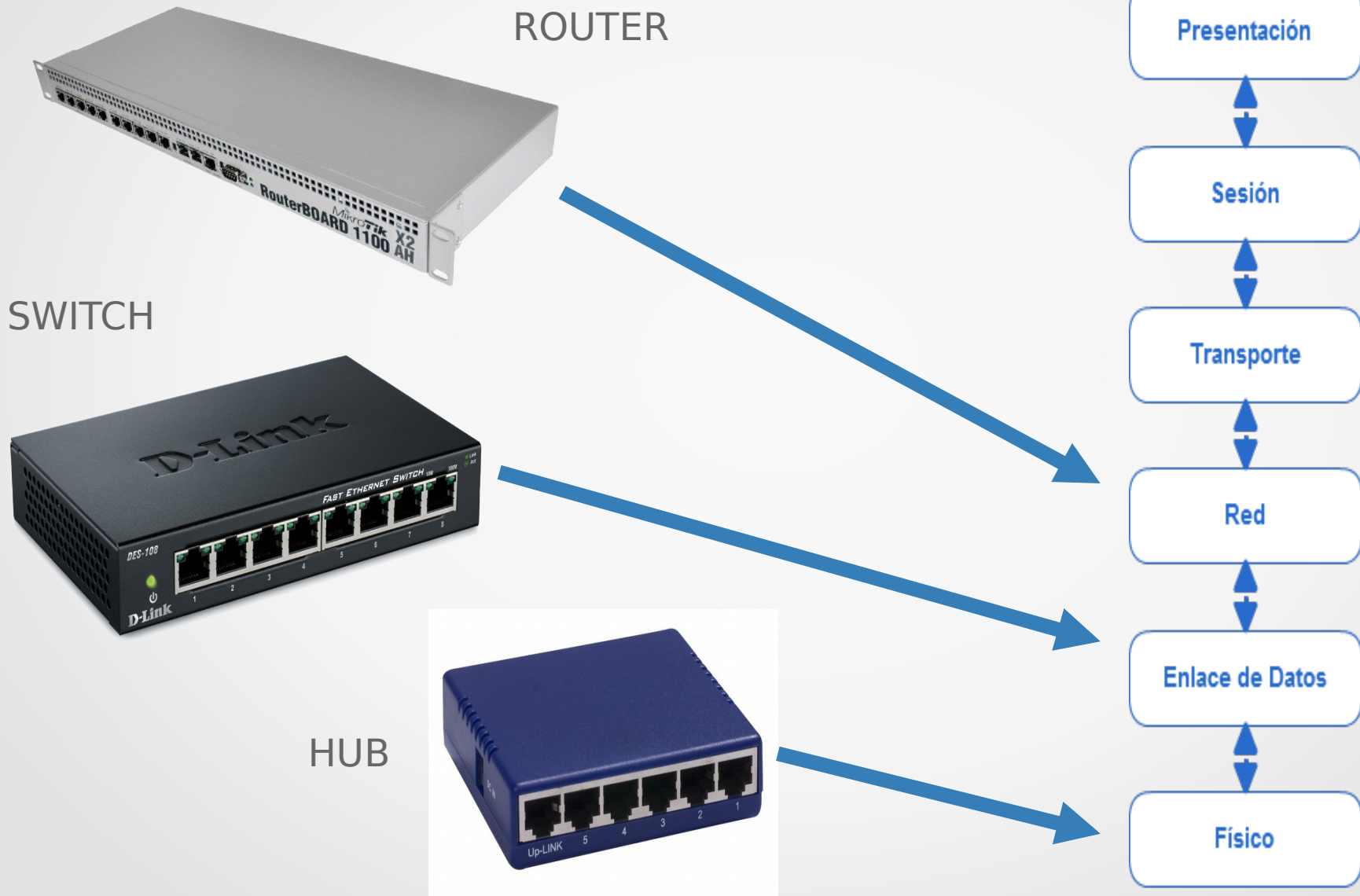


# Dispositivos - Routers



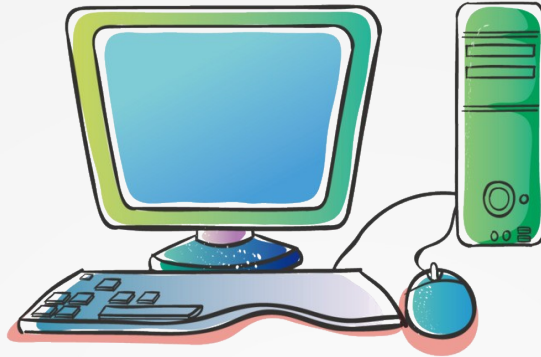
Router Wi-Fi

# Dispositivos – Modelo OSI/ISO



# Dirección IP

MAC: AA:BB:CC:11:22:33

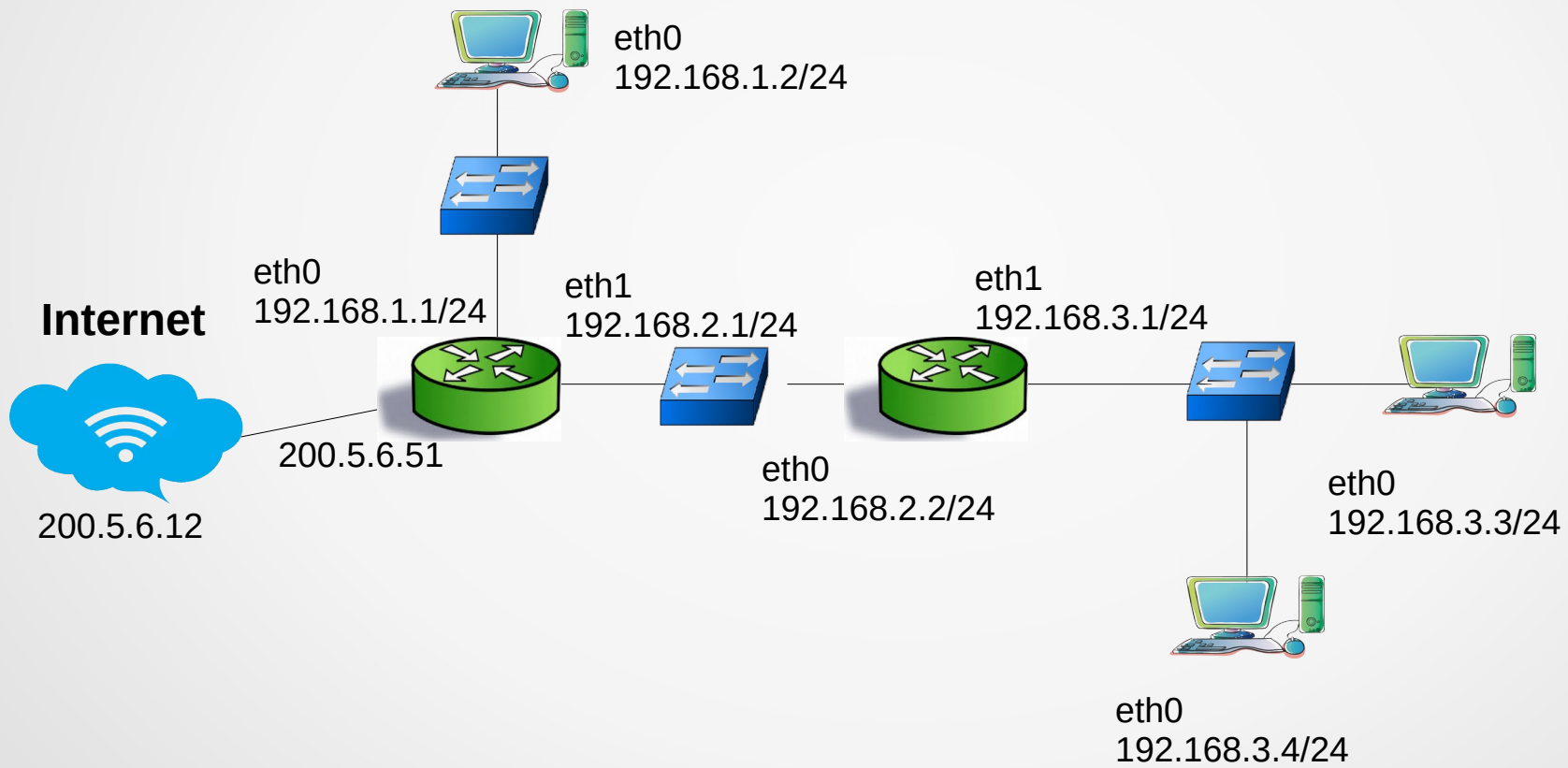


IP: 192.168.1.2    ->    11000000.10101000.00000001.00000010

Mascara: 255.255.255.0    ->    11111111.11111111.11111111.00000000

IP	11000000.10101000.00000001.00000010	AND
Mascara	11111111.11111111.11111111.00000000	
Red	----- 11000000.10101000.00000001.00000000	

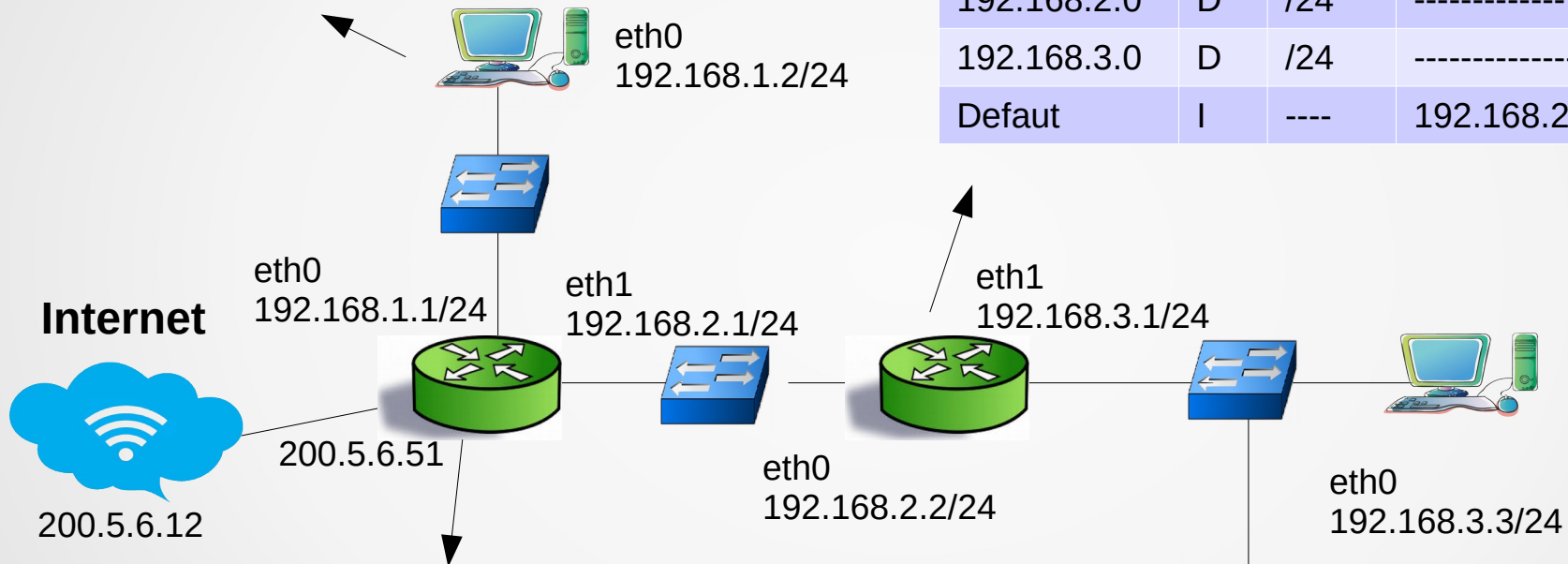
# Ruteo



# Ruteo

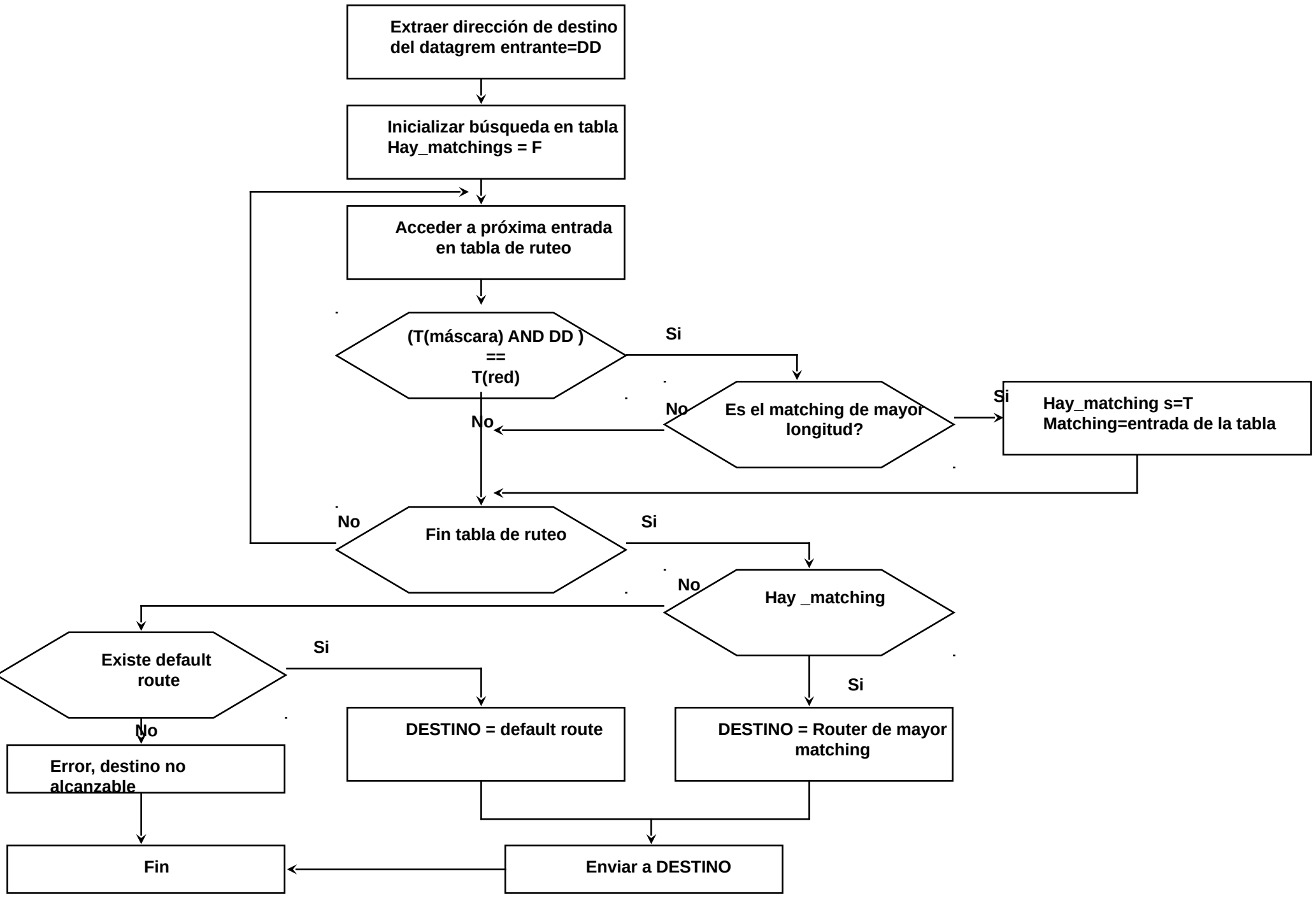
Red Destino	D/I	Masc	Router	Int.
192.168.1.0	D	/24	----	eth0
Defaut	I	----	192.168.1.1	eth0

Red Destino	D/I	Masc	Router	Int.
192.168.2.0	D	/24	-----	eth0
192.168.3.0	D	/24	-----	eth1
Defaut	I	----	192.168.2.1	eth0



Red Destino	D/I	Masc	Router	Int.
192.168.1.0	D	/24	-----	eth0
192.168.2.0	D	/24	-----	eth1
192.168.3.0	I	/24	192.168.2.2	eth1
Defaut	I	----	200.5.6.12	eth0

eth0  
192.168.3.4/24





# IP Route

```
ip [ OPTIONS ] OBJECT [ COMMAND [ ARGUMENTS ] ]
```

## *ip route*

- Agregar ruta

Sintaxis:

```
# ip route add <Net/IP>/<Mask> via <Gateway> dev <IntX>
```

Ejemplo:

Agregar un camino hacia la red 10.0.0/24 por la puerta de enlace 192.168.0.2

```
# ip route add 10.0.0.0/24 via 192.168.0.2
```

Agregar un camino por por la puerta de enlace 192.168.1.1 a través de la interfaz eth0

```
# ip route add default via 192.168.1.1 dev eth0
```

- Ver rutas

Sintaxis:

```
# ip route show
```

Visualización:

```
20.20.20.2/24 via 192.168.1.1 dev eth0  
default via 192.168.1.1 dev eth0
```