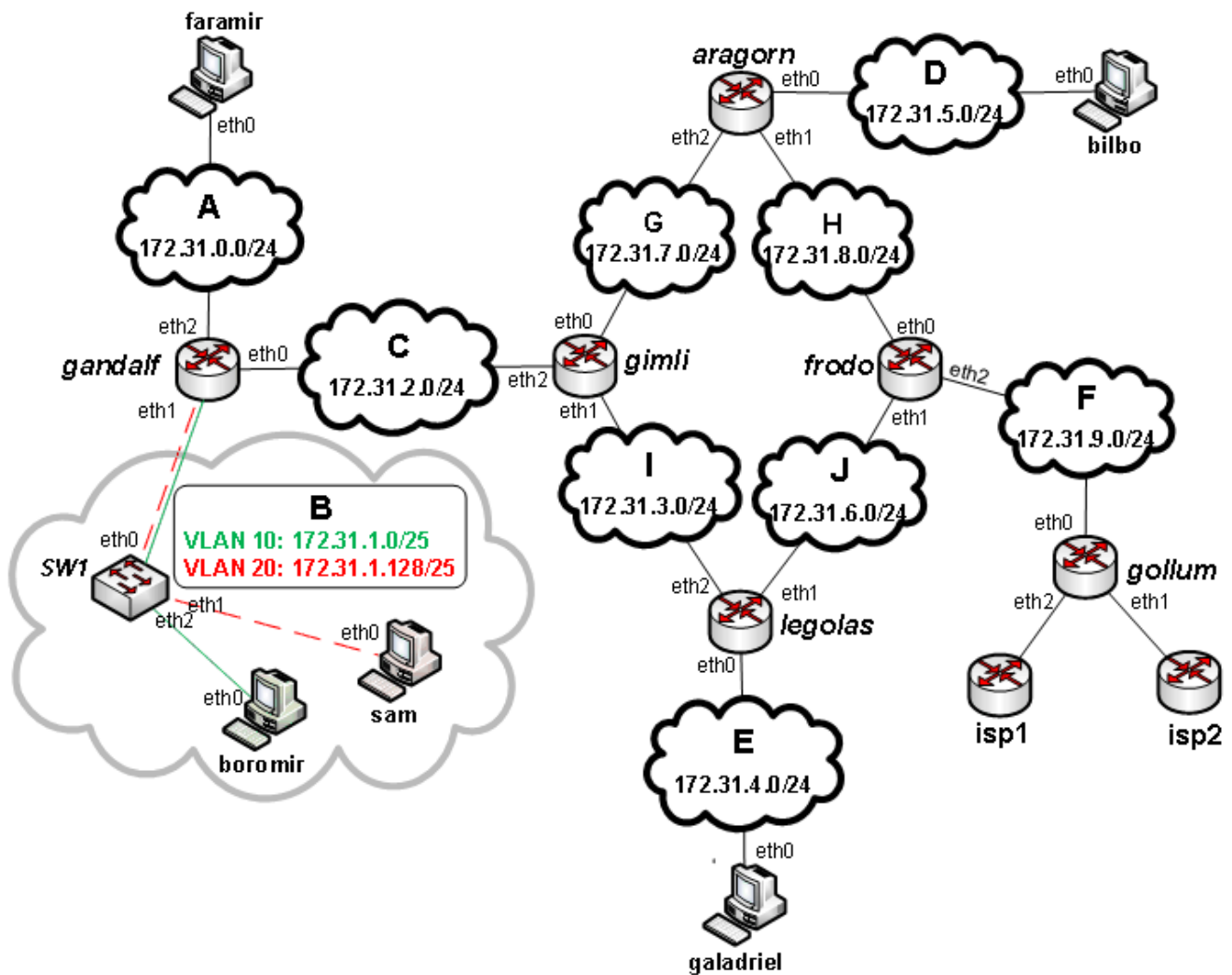


Laboratorio 4

Redes y Teleprocesamiento



Hosts

Boromir |

```
ip link set eth0 up
ip address add 172.31.1.2/25 dev eth0
ip route add default via 172.31.1.1
```

Sam |

```
ip link set eth0 up
ip address add 172.31.1.130/25 dev eth0
ip route add default via 172.31.1.129
```

Bilbo |

```
ip link set eth0 up
ip address add 172.31.5.2/24 dev eth0
ip route add default via 172.31.5.1
```

Faramir |

```
ip link set eth0 up
ip address add 172.31.0.2/24 dev eth0
ip route add default via 172.31.0.1
```

Galadriel |

```
ip link set eth0 up
ip address add 172.31.4.2/24 dev eth0
ip route add default via 172.31.4.1
```

Switches

SW1 |

```
ip link set eth0 up
ip link set eth1 up
ip link set eth2 up
ip link add eth0.10 link eth0 type vlan id 10
ip link add eth0.20 link eth0 type vlan id 20
ip link set eth0.10 up
ip link set eth0.20 up
ip link add brv10 type bridge
ip link add brv20 type bridge
ip link set brv10 up
ip link set brv20 up
ip link set eth0.10 master brv10
ip link set eth2 master brv10
ip link set eth0.20 master brv20
ip link set eth1 master brv20
```

Routers

Gandalf |

```
ip link set eth0 up
ip link set eth1 up
ip link set eth2 up
ip link add eth1.10 link eth1 type vlan id 10
ip link add eth1.20 link eth1 type vlan id 20
ip link set eth1.10 up
ip link set eth1.20 up
ip address add 172.31.0.1/24 dev eth2
ip address add 172.31.2.1/24 dev eth0
ip address add 172.31.1.1/25 dev eth1.10
ip address add 172.31.1.129/25 dev eth1.20
ip route add default via 172.31.2.2
```

Gollum |

```
ip link set eth0 up
ip link set eth1 up
ip link set eth2 up
ip address add 172.31.9.2/24 dev eth0
ip address add 190.220.179.254/24 dev eth1
ip address add 200.49.159.1/24 dev eth2
ip route add 172.31.0.0/21 via 172.31.9.1
ip route add 172.31.8.0/24 via 172.31.9.1
ip route add default dev eth2
ip route add default dev eth1 table 1
ip rule add from 172.31.1.128/25 lookup 1
iptables -A POSTROUTING -t nat -o eth1 -j SNAT →
--to-source 190.220.179.254
iptables -A POSTROUTING -t nat -o eth2 -j SNAT →
--to-source 200.49.159.1
```

Routers con Zebra - RIP

Gimli |

```
# EJEMPLO DE CONFIGURACION ZEBRA-RIP COMPLETO
# En los demas se deja solo la informacion relevante
```

```
# Modificar /etc/quagga/daemons:
# zebra=no → zebra=yes
# ripd=no → ripd=yes
nano /etc/quagga/daemons
# Iniciar quagga
service quagga start
# Configuración ZEBRA:
telnet localhost 2601
Password: zebra
enable
Password: zebra
configure terminal
interface eth0
ip address 172.31.7.1/24
no shutdown
interface eth1
ip address 172.31.3.1/24
no shutdown
interface eth2
ip address 172.31.2.2/24
no shutdown
exit
ip route 172.31.0.0/23 172.31.2.1
exit
exit
# Configuración RIP:
telnet localhost 2602
Password: zebra
enable
configure terminal
router rip
network 172.31.7.0/24
network 172.31.3.0/24
redistribute connected
redistribute static
exit
exit
exit
```

Aragorn |

```
# Modificar /etc/quagga/daemons
# Iniciar quagga
# Configuración ZEBRA:
interface eth0
ip address 172.31.5.1/24
no shutdown
interface eth1
ip address 172.31.8.1/24
no shutdown
interface eth2
ip address 172.31.7.2/24
no shutdown
# Configuración RIP:
network 172.31.7.0/24
network 172.31.8.0/24
redistribute connected
```

```
# Modificar /etc/quagga/daemons
# Iniciar quagga
# Configuración ZEBRA:
interface eth0
ip address 172.31.8.2/24
no shutdown
interface eth1
ip address 172.31.6.1/24
no shutdown
interface eth2
ip address 172.31.9.1/24
no shutdown
ip route 0.0.0.0/0 172.31.9.2
# Configuración RIP:
network 172.31.8.0/24
network 172.31.6.0/24
redistribute connected
redistribute static
```

```
# Modificar /etc/quagga/daemons
# Iniciar quagga
# Configuración ZEBRA:
interface eth0
ip address 172.31.4.1/24
no shutdown
interface eth1
ip address 172.31.6.2/24
no shutdown
interface eth2
ip address 172.31.3.2/24
no shutdown
# Configuración RIP:
network 172.31.6.0/24
network 172.31.3.0/24
redistribute connected
```