

Packet Tracer: configuración de OSPFv2 en un área única

Configuración

Configuramos OSPFv2 en los tres routers. Lo asociamos al proceso 10 y al area 0.

Comandos ingresados en R1:

```
R1(config)#router ospf 10
R1(config-router)#router 1.1.1.1
R1(config-router)#network 172.16.1.0 0.0.0.255 area 0
R1(config-router)#network 172.16.3.0 0.0.0.3 area 0
R1(config-router)#network 192.168.10.4 0.0.0.3 area 0
R1(config-router)#passive-interface g0/0
```

Comandos ingresados en R2:

```
R2(config)#router ospf 10
R2(config-router)#router 2.2.2.2
R2(config-router)#network 172.16.2.0 0.0.0.255 area 0
R2(config-router)#network 192.168.10.8 0.0.0.3 area 0
R2(config-router)#network 172.16.3.0 0.0.0.3 area 0
R2(config-router)#passive-interface g0/0
```

Comandos ingresados en R3:

```
R3(config)#router ospf 10
R3(config-router)#router 3.3.3.3
R3(config-router)#network 192.168.1.0 0.0.0.255 area 0
R3(config-router)#network 192.168.10.4 0.0.0.3 area 0
R3(config-router)#network 192.168.10.8 0.0.0.3 area 0
R3(config-router)#passive-interface g0/0
```

Verificación

Verificamos la tabla de routing de cada router con `show ip route`.

R1:

Gateway of last resort is not set

```
172.16.0.0/16 is variably subnetted, 5 subnets, 3 masks
C 172.16.1.0/24 is directly connected, GigabitEthernet0/0
L 172.16.1.1/32 is directly connected, GigabitEthernet0/0
O 172.16.2.0/24 [110/65] via 172.16.3.2, 00:07:54, Serial0/0/0
C 172.16.3.0/30 is directly connected, Serial0/0/0
L 172.16.3.1/32 is directly connected, Serial0/0/0
O 192.168.1.0/24 [110/65] via 192.168.10.6, 00:03:30, Serial0/0/1
192.168.10.0/24 is variably subnetted, 3 subnets, 2 masks
```

C 192.168.10.4/30 is directly connected, Serial0/0/1
L 192.168.10.5/32 is directly connected, Serial0/0/1
O 192.168.10.8/30 [110/128] via 172.16.3.2, 00:03:20, Serial0/0/0
[110/128] via 192.168.10.6, 00:03:20, Serial0/0/1

R2:

Gateway of last resort is not set

172.16.0.0/16 is variably subnetted, 5 subnets, 3 masks
O 172.16.1.0/24 [110/65] via 172.16.3.1, 00:09:42, Serial0/0/0
C 172.16.2.0/24 is directly connected, GigabitEthernet0/0
L 172.16.2.1/32 is directly connected, GigabitEthernet0/0
C 172.16.3.0/30 is directly connected, Serial0/0/0
L 172.16.3.2/32 is directly connected, Serial0/0/0
O 192.168.1.0/24 [110/65] via 192.168.10.10, 00:04:58, Serial0/0/1
192.168.10.0/24 is variably subnetted, 3 subnets, 2 masks
O 192.168.10.4/30 [110/128] via 192.168.10.10, 00:04:58, Serial0/0/1
[110/128] via 172.16.3.1, 00:04:58, Serial0/0/0
C 192.168.10.8/30 is directly connected, Serial0/0/1
L 192.168.10.9/32 is directly connected, Serial0/0/1

R3:

Gateway of last resort is not set

172.16.0.0/16 is variably subnetted, 3 subnets, 2 masks
O 172.16.1.0/24 [110/65] via 192.168.10.5, 00:05:50, Serial0/0/0
O 172.16.2.0/24 [110/65] via 192.168.10.9, 00:05:35, Serial0/0/1
O 172.16.3.0/30 [110/128] via 192.168.10.5, 00:05:35, Serial0/0/0
[110/128] via 192.168.10.9, 00:05:35, Serial0/0/1
192.168.1.0/24 is variably subnetted, 2 subnets, 2 masks
C 192.168.1.0/24 is directly connected, GigabitEthernet0/0
L 192.168.1.1/32 is directly connected, GigabitEthernet0/0
192.168.10.0/24 is variably subnetted, 4 subnets, 2 masks
C 192.168.10.4/30 is directly connected, Serial0/0/0
L 192.168.10.6/32 is directly connected, Serial0/0/0
C 192.168.10.8/30 is directly connected, Serial0/0/1
L 192.168.10.10/32 is directly connected, Serial0/0/1