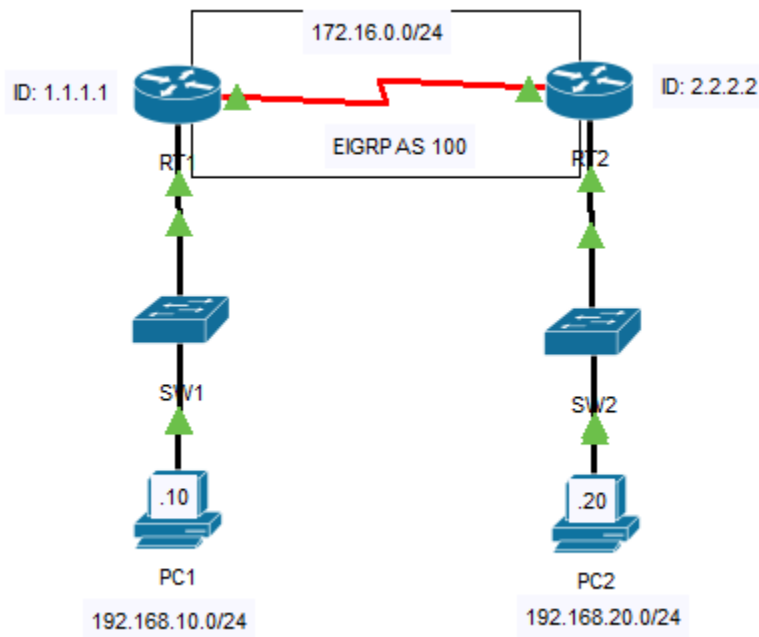


Configuración de EIGRP.

"Topología de red Implementada"



Descripción: En la siguiente imagen se muestran 2 routers en un mismo AS que comparten sus rutas internas a través de EIGRP.

¿Qué es EIGRP?:

EIGRP, o Enhanced Interior Gateway Routing Protocol (Protocolo de Enrutamiento Avanzado para Redes Internas), es un protocolo de enrutamiento de vector de distancia avanzado desarrollado por Cisco. EIGRP es considerado un protocolo de enrutamiento híbrido, ya que combina características de protocolos de vector de distancia y de estado de enlace para proporcionar un enrutamiento eficiente y confiable en redes IP.

Configuración de EIGRP.

#Configuración de interfaces#

```
RT1>enable
```

```
RT1#configure terminal
```

Enter configuration commands, one per line. End with CNTL/Z.

```
RT1(config)#interface s0/0/0
```

```
RT1(config-if)#ip address 172.16.0.1 255.255.255.0
```

```
RT1(config-if)#no shutdown
```

```
%LINK-5-CHANGED: Interface Serial0/0/0, changed state to down
```

```
RT1(config-if)#description ENLACE A RT2 EIGRP AS 100
```

```
RT1(config-if)#exit
```

```
RT1(config)#interface g0/0
```

```
RT1(config-if)#ip address 192.168.10.1 255.255.255.0
```

```
RT1(config-if)#no shutdown
```

```
RT1(config-if)#description ENLACE HACIA PC1 LAN
```

```
RT1(config-if)#exit
```

#Configuración de EIGRP AS 100#

```
RT1(config)#router eigrp 100
```

```
RT1(config-router)#eigrp router-id 1.1.1.1
```

```
RT1(config-router)#network 192.168.10.0 0.0.0.255
```

```
RT1(config-router)#network 172.16.0.0 0.0.0.255
```

```
RT1(config-router)#passive-interface g0/0
```

```
RT1(config-router)#no auto-summary
```

```
RT1(config-router)#exit
```

```
RT1(config)#
```

```
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up
```

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up

%DUAL-5-NBRCHANGE: IP-EIGRP 100: Neighbor 172.16.0.2 (Serial0/0/0) is up: new adjacency

#Configuración de interfaces#

RT2>enable

RT2#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

RT2(config)#interface s0/0/0

RT2(config-if)#ip address 172.16.0.2 255.255.255.0

RT2(config-if)#no shutdown

RT2(config-if)#description ENLACE A RT1 EIGRP AS 100

RT2(config-if)#exit

RT2(config)#interface g0/0

RT2(config-if)#ip address 192.168.20.1 255.255.255.0

RT2(config-if)#no shutdown

RT2(config-if)#description ENLACE HACIA PC2 LAN

RT2(config-if)#exit

#Configuración de EIGRP AS 100#

```
RT2(config)#router eigrp 100
RT2(config-router)#eigrp router-id 2.2.2.2
RT2(config-router)#network 192.168.20.0 0.0.0.255
RT2(config-router)#network 172.16.0.0 0.0.0.255
RT2(config-router)#passive-interface g0/0
RT2(config-router)#no auto-summary
RT2(config-router)#exit
%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0,
changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed
state to up
%DUAL-5-NBRCHANGE: IP-EIGRP 100: Neighbor 172.16.0.1 (Serial0/0/0) is
up: new adjacency
```

```
#Verificar proceso EIGRP EN RT1#
```

```
RT1#show ip eigrp neighbors
```

```
IP-EIGRP neighbors for process 100
```

```
H Address Interface Hold Uptime SRTT RTO Q Seq
```

```
(sec) (ms) Cnt Num
```

```
0 172.16.0.2 Se0/0/0 11 00:18:09 40 1000 0 3
```

RT1#show ip route eigrp

192.168.10.0/24 is variably subnetted, 2 subnets, 2 masks

D 192.168.20.0/24 [90/2170112] via 172.16.0.2, 00:20:44, Serial0/0/0

#Verificar proceso EIGRP EN RT2#

RT2#show ip eigrp neighbors

IP-EIGRP neighbors for process 100

H Address Interface Hold Uptime SRTT RTO Q Seq

(sec) (ms) Cnt Num

0 172.16.0.1 Se0/0/0 14 00:19:39 40 1000 0 4

RT2#show ip route eigrp

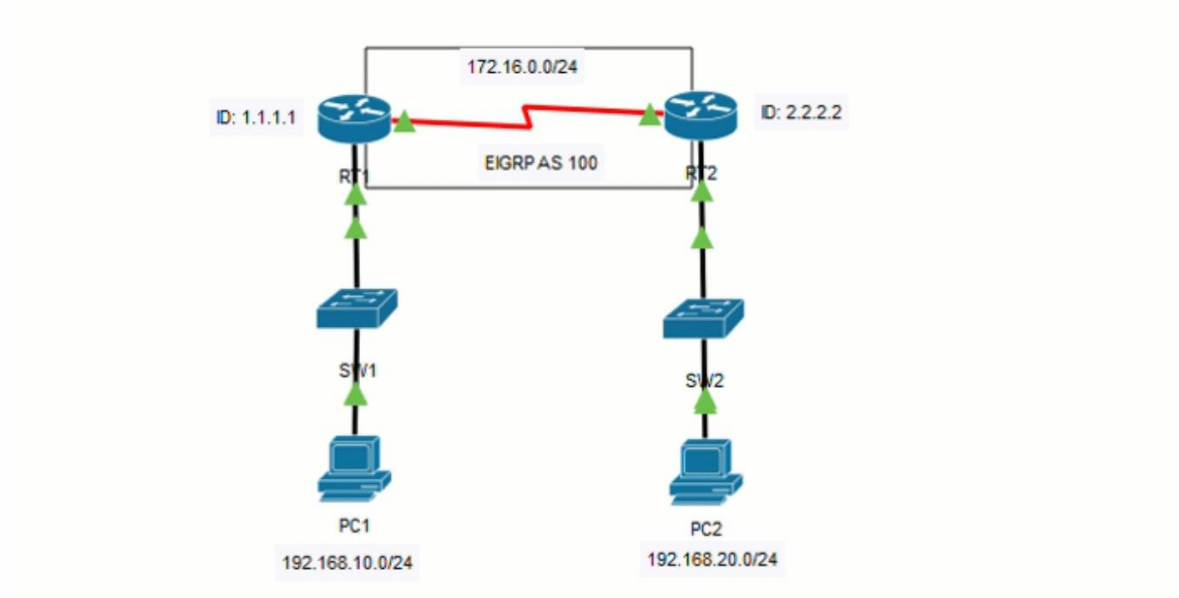
172.16.0.0/16 is variably subnetted, 2 subnets, 2 masks

D 192.168.10.0/24 [90/2170112] via 172.16.0.1, 00:17:49, Serial0/0/0

Tabla de Direccionamiento IP

Nombre	IP	Red/Mask	Gateway	Interfaz
RT1	172.16.0.1	172.16.0.0/24	N/A	S0/0/0
RT1	192.168.10.1	192.168.10.0/24	N/A	G0/0
RT2	172.16.0.2	172.16.0.0/24	N/A	S0/0/0
RT2	192.168.20.1	192.168.20.0/24	N/A	G0/0
PC1	192.168.10.10	192.168.10.0/24	192.168.10.1	Fa0
PC2	192.168.20.20	192.168.20.0/24	192.168.20.1	Fa0

Prueba de Conectividad de PC1 a PC2



Descarga aquí la topología ([EIGRP.pkt](#))