## Packet Tracer: Configuración de RIPv2

## Configuración

## Pasos:

- 1. Configuramos el router 1
  - a. Creamos una ruta predeterminada para que el tráfico salga por la interfaz serial 0/0/1 con el comando ip route 0.0.0.0 0.0.0 s0/0/1
  - b. Entramos al modo configuracion de RIP con router rip, version 2 y no auto-summary
  - c. Configuramos RIP para las redes que se conectan al router con network 192.168.1.0 y network 192.168.2.0
  - d. Pasivamos la interfaz gigabitEthernetO/O con passive-interface g0/0
  - e. Anunciamos la ruta predeterminada a los otros router con default-information originate
- 2. y 3. Se repiten los pasos 1b a 1d pero para los routers 2 y 3. Al router 2 se le anuncian las redes 192.168.2.0, 192.168.3.0 y 192.168.4.0. Al router 3 se le anuncian las 192.168.4.0 y 192.168.5.0. A ambos se les pasiva la interfaz g0/0.

## Verificación

- 1. Tablas de routing
  - a. El comando para mostrar la tabla es show ip route. Lo ejecutamos sobre el router 1:

```
Gateway of last resort is 0.0.0.0 to network 0.0.0.0
```

b. Router 2

Gateway of last resort is 192.168.2.1 to network 0.0.0.0

```
R 192.168.1.0/24 [120/1] via 192.168.2.1, 00:00:16, Serial0/0/0
192.168.2.0/24 is variably subnetted, 2 subnets, 2 masks
C 192.168.2.0/24 is directly connected, Serial0/0/0
L 192.168.2.2/32 is directly connected, Serial0/0/0
192.168.3.0/24 is variably subnetted, 2 subnets, 2 masks
C 192.168.3.0/24 is directly connected, GigabitEthernet0/0
L 192.168.3.1/32 is directly connected, GigabitEthernet0/0
192.168.4.0/24 is variably subnetted, 2 subnets, 2 masks
C 192.168.4.0/24 is directly connected, Serial0/0/1
L 192.168.4.2/32 is directly connected, Serial0/0/1
R 192.168.5.0/24 [120/1] via 192.168.4.1, 00:00:17, Serial0/0/1
R* 0.0.0.0/0 [120/1] via 192.168.2.1, 00:00:16, Serial0/0/0
Router 3
Gateway of last resort is 192.168.4.2 to network 0.0.0.0
R
    192.168.1.0/24 [120/2] via 192.168.4.2, 00:00:24, Serial0/0/1
    192.168.2.0/24 [120/1] via 192.168.4.2, 00:00:24, Serial0/0/1
R
    192.168.3.0/24 [120/1] via 192.168.4.2, 00:00:24, Serial0/0/1
    192.168.4.0/24 is variably subnetted, 2 subnets, 2 masks
       192.168.4.0/24 is directly connected, Serial0/0/1
C
        192.168.4.1/32 is directly connected, Serial0/0/1
    192.168.5.0/24 is variably subnetted, 2 subnets, 2 masks
C
        192.168.5.0/24 is directly connected, GigabitEthernet0/0
        192.168.5.1/32 is directly connected, GigabitEthernet0/0
L
   0.0.0.0/0 [120/2] via 192.168.4.2, 00:00:24, Serial0/0/1
   2. Usamos el comando ping desde cada terminal para verificar la conectividad.
Ejemplo: desde PC1 al servidor web
C:\>ping 64.100.0.10
Pinging 64.100.0.10 with 32 bytes of data:
Reply from 64.100.0.10: bytes=32 time=1ms TTL=126
Reply from 64.100.0.10: bytes=32 time=13ms TTL=126
Reply from 64.100.0.10: bytes=32 time=12ms TTL=126
Reply from 64.100.0.10: bytes=32 time=11ms TTL=126
Ping statistics for 64.100.0.10:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
```

Minimum = 1ms, Maximum = 13ms, Average = 9ms