Packet Tracer: Configuración de RIPng

Configuración

1. Ejecutamos todos los comandos para habilitar RIPng en R1
2. Ejecutamos todos los comandos para habilitar RIPng en R2 y R3. En R2 habilitamos las interfaces g0/0, s0/0/0 y s0/0/1. En R3 habilitamos las interfaces g0/0 y s0/0/1.

Verificación

1. Tablas de routing. Se muestran con el comando `show ipv6 route`
    a. Router 1

```
C 2001:DB8:1:1::/64 [0/0]
via GigabitEthernet0/0, directly connected
L 2001:DB8:1:1::1/128 [0/0]
via GigabitEthernet0/0, receive
R 2001:DB8:1:2::/64 [120/2]
via FE80::2, Serial0/0/0
R 2001:DB8:1:3::/64 [120/3]
via FE80::2, Serial0/0/0
C 2001:DB8:1:A001::/64 [0/0]
via Serial0/0/0, directly connected
L 2001:DB8:1:A001::1/128 [0/0]
via Serial0/0/0, receive
R 2001:DB8:1:A002::/64 [120/2]
via FE80::2, Serial0/0/0
L FF00::/8 [0/0]
via Null0, receive
```

    b. Ejecutamos `show ipv6 protocols` en R1

```
IPv6 Routing Protocol is "connected"
IPv6 Routing Protocol is "ND"
IPv6 Routing Protocol is "rip CISCO"
       Interfaces:
              GigabitEthernet0/0
              Serial0/0/0
       Redistribution:
              None
```

    c. Vemos la configuración en ejecución con `show running-config`. A continuación detallamos las interfaces con RIPng

```
interface GigabitEthernet0/0
no ip address
duplex auto
speed auto
ipv6 address FE80::1 link-local
```

```
ipv6 address 2001:DB8:1:1::1/64
ipv6 rip CISCO enable

interface Serial0/0/0
no ip address
ipv6 address FE80::1 link-local
ipv6 address 2001:DB8:1:A001::1/64
ipv6 rip CISCO enable
clock rate 2000000
```

d. Mostramos la configuración de R2 y R3.

R2: show ipv6 route

```
R 2001:DB8:1:1::/64 [120/2]
via FE80::1, Serial0/0/0
C 2001:DB8:1:2::/64 [0/0]
via GigabitEthernet0/0, directly connected
L 2001:DB8:1:2::1/128 [0/0]
via GigabitEthernet0/0, receive
R 2001:DB8:1:3::/64 [120/2]
via FE80::3, Serial0/0/1
C 2001:DB8:1:A001::/64 [0/0]
via Serial0/0/0, directly connected
L 2001:DB8:1:A001::2/128 [0/0]
via Serial0/0/0, receive
C 2001:DB8:1:A002::/64 [0/0]
via Serial0/0/1, directly connected
L 2001:DB8:1:A002::1/128 [0/0]
via Serial0/0/1, receive
L FF00::/8 [0/0]
via Null0, receive
```

R2: show ipv6 protocols

```
IPv6 Routing Protocol is "connected"
IPv6 Routing Protocol is "ND"
IPv6 Routing Protocol is "rip CISCO"
Interfaces:
GigabitEthernet0/0
Serial0/0/0
Serial0/0/1
Redistribution:
None
```

R2: interfaces con RIPng desde show running-config

```
interface GigabitEthernet0/0
no ip address
duplex auto
speed auto
ipv6 address FE80::2 link-local
```

```
ipv6 address 2001:DB8:1:2::1/64
ipv6 rip CISCO enable

interface Serial0/0/0
no ip address
ipv6 address FE80::2 link-local
ipv6 address 2001:DB8:1:A001::2/64
ipv6 rip CISCO enable

interface Serial0/0/1
no ip address
ipv6 address FE80::2 link-local
ipv6 address 2001:DB8:1:A002::1/64
ipv6 rip CISCO enable
clock rate 2000000
```

R3: show ipv6 route

```
R 2001:DB8:1:1::/64 [120/3]
via FE80::2, Serial0/0/1
R 2001:DB8:1:2::/64 [120/2]
via FE80::2, Serial0/0/1
C 2001:DB8:1:3::/64 [0/0]
via GigabitEthernet0/0, directly connected
L 2001:DB8:1:3::1/128 [0/0]
via GigabitEthernet0/0, receive
R 2001:DB8:1:A001::/64 [120/2]
via FE80::2, Serial0/0/1
C 2001:DB8:1:A002::/64 [0/0]
via Serial0/0/1, directly connected
L 2001:DB8:1:A002::2/128 [0/0]
via Serial0/0/1, receive
L FF00::/8 [0/0]
via Null0, receive
```

R3: show ipv6 protocols

```
IPv6 Routing Protocol is "connected"
IPv6 Routing Protocol is "ND"
IPv6 Routing Protocol is "rip CISCO"
Interfaces:
GigabitEthernet0/0
Serial0/0/1
Redistribution:
None
```

R3: interfaces con RIPng desde show running-config

```
interface GigabitEthernet0/0
no ip address
duplex auto
```

```
speed auto
ipv6 address FE80::3 link-local
ipv6 address 2001:DB8:1:3::1/64
ipv6 rip CISCO enable

interface Serial0/0/1
no ip address
ipv6 address FE80::3 link-local
ipv6 address 2001:DB8:1:A002::2/64
ipv6 rip CISCO enable
```