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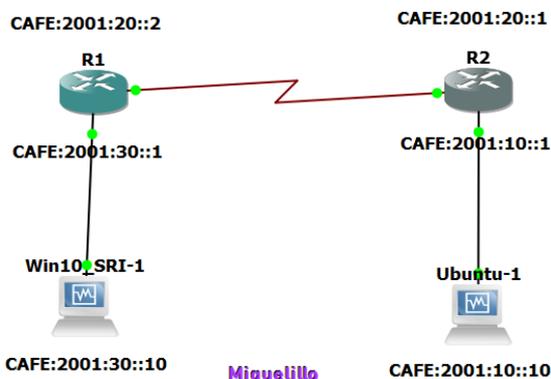
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Ejercicio 1

a)

Solución:

Escenario



A la hora de configurar es poner las IPs en sus respectivos interfaces, activar el enrutamiento con el comando `IPV6 UNICAST-routing` e introducir las rutas de enrutamiento con `IPv6 route`

ROUTER1

```
interface FastEthernet0/0
  no ip address
  duplex half
  ipv6 address CAFE:2001:30::1/64
  !
interface Serial1/0
  no ip address
  ipv6 address CAFE:2001:20::2/64
  serial restart-delay 0
  !
!
!
!
no cdp log mismatch duplex
ipv6 route CAFE:2001:10::/64 CAFE:2001:20::1
!
```

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```
R1#show ipv6 route
IPv6 Routing Table - default - 6 entries
Codes: C - Connected, L - Local, S - Static, U - Per-user Static route
       B - BGP, HA - Home Agent, MR - Mobile Router, R - RIP
       H - NHRP, I1 - ISIS L1, I2 - ISIS L2, IA - ISIS interarea
       IS - ISIS summary, D - EIGRP, EX - EIGRP external, NM - NEMO
       ND - ND Default, NDp - ND Prefix, DCE - Destination, NDr - Redirect
       O - OSPF Intra, OI - OSPF Inter, OE1 - OSPF ext 1, OE2 - OSPF ext 2
       ON1 - OSPF NSSA ext 1, ON2 - OSPF NSSA ext 2, l - LISP
S CAFE:2001:10::/64 [1/0]
  via CAFE:2001:20::1
C CAFE:2001:20::/64 [0/0]
  via Serial1/0, directly connected
L CAFE:2001:20::2/128 [0/0]
  via Serial1/0, receive
C CAFE:2001:30::/64 [0/0]
  via FastEthernet0/0, directly connected
L CAFE:2001:30::1/128 [0/0]
  via FastEthernet0/0, receive
L FF00::/8 [0/0]
  via Null0, receive
```

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Prueba en el cliente Ubuntu

```

Ubuntu [Corriendo] - Oracle VM VirtualBox
Archivo  Máquina  Ver  Entrada  Dispositivos  Ayuda
Actividades  Terminal  25 de sep 17:41
usuario@usuario-miguel-SRI: ~
inet6 ::1/128 scope host
    valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP gr
oup default qlen 1000
    link/ether 08:00:27:6d:84:a8 brd ff:ff:ff:ff:ff:ff
    inet6 cafe:2001:10::10/64 scope global noprefixroute
        valid_lft forever preferred_lft forever
    inet6 fe80::9664:4e6c:fb04:98fb/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
3: virbr0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN
group default qlen 1000
    link/ether 52:54:00:bb:f7:2c brd ff:ff:ff:ff:ff:ff
    inet 192.168.122.1/24 brd 192.168.122.255 scope global virbr0
        valid_lft forever preferred_lft forever
usuario@usuario-miguel-SRI:~$ ping cafe:2001:30::1
PING cafe:2001:30::1(cafe:2001:30::1) 56 data bytes
64 bytes from cafe:2001:30::1: icmp_seq=1 ttl=63 time=24.5 ms
64 bytes from cafe:2001:30::1: icmp_seq=2 ttl=63 time=29.3 ms
64 bytes from cafe:2001:30::1: icmp_seq=3 ttl=63 time=24.0 ms
64 bytes from cafe:2001:30::1: icmp_seq=4 ttl=63 time=31.4 ms
64 bytes from cafe:2001:30::1: icmp_seq=5 ttl=63 time=23.6 ms
64 bytes from cafe:2001:30::1: icmp_seq=6 ttl=63 time=25.7 ms

```

Prueba Routers

```

R2#ping CAFE:2001:30::10
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to CAFE:2001:30::10, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 20/23/28 ms
R2#

```

```

R1#ping CAFE:2001:10::10
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to CAFE:2001:10::10, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 28/30/32 ms
R1#

```