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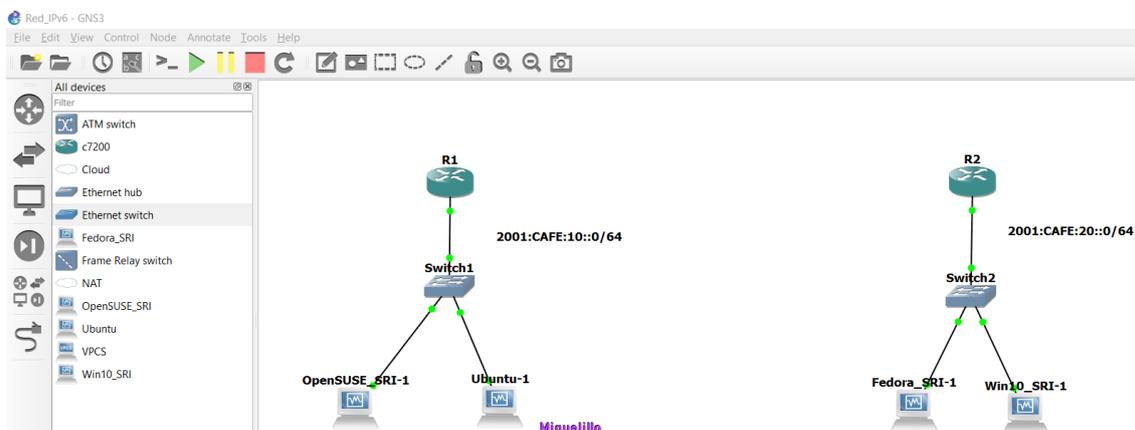
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Ejercicio 1

a) Red local IPv6 con subnetting en GNS3

Solución:

Esquema de RED:



Router1 GNS3

```

R1
R1(config)#interface FastEthernet 0/0
R1(config-if)#ip v
R1(config-if)#ip v6 add
R1(config-if)#ip v6 address 2001:CAFE:10::1/64
R1(config-if)#en
R1(config-if)#no shu
R1(config-if)#no shutdown
R1(config-if)#do w
% No connections open
R1(config-if)#
*Sep 18 14:10:35.131: %LINK-3-UPDOWN: Interface FastEthernet0/0, changed state to up
*Sep 18 14:10:36.131: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
R1(config-if)#do ping 2001:CAFE:10::10
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 2001:CAFE:10::10, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 8/9/12 ms
R1(config-if)#do ping 2001:CAFE:10::20
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 2001:CAFE:10::20, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 4/8/12 ms Miguelillo

```

Ubuntu

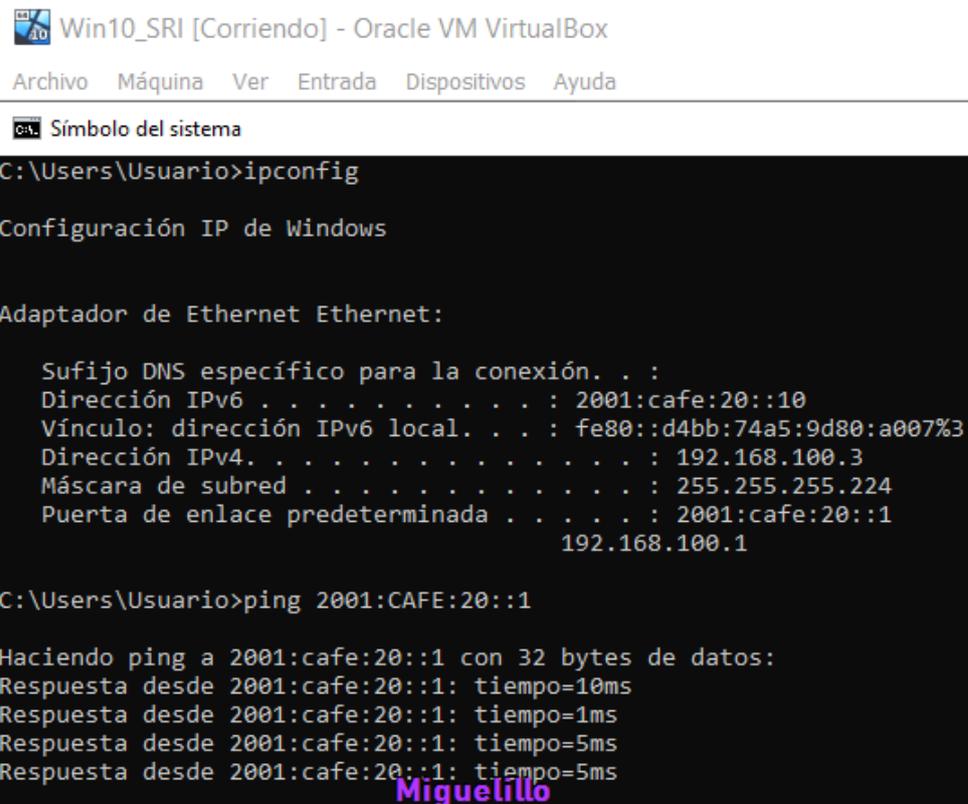
```

Ubuntu [Corriendo] - Oracle VM VirtualBox
Archivo Máquina Ver Entrada Dispositivos Ayuda
Actividades Terminal 18 de sep 14:11
usuario@usuario-miguel-SRI: ~
usuario@usuario-miguel-SRI:~$ ping 2001:CAFE:10::10
PING 2001:CAFE:10::10(2001:cafe:10::10) 56 data bytes
64 bytes from 2001:cafe:10::10: icmp_seq=1 ttl=64 time=1.20 ms
64 bytes from 2001:cafe:10::10: icmp_seq=2 ttl=64 time=0.574 ms
^C
--- 2001:CAFE:10::10 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1001ms
rtt min/avg/max/mdev = 0.574/0.886/1.198/0.312 ms
usuario@usuario-miguel-SRI:~$ ping 2001:CAFE:10::1
PING 2001:CAFE:10::1(2001:cafe:10::1) 56 data bytes
64 bytes from 2001:cafe:10::1: icmp_seq=1 ttl=64 time=23.9 ms
64 bytes from 2001:cafe:10::1: icmp_seq=2 ttl=64 time=4.51 ms
^C
--- 2001:CAFE:10::1 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1001ms
rtt min/avg/max/mdev = 4.510/14.218/23.926/9.708 ms
usuario@usuario-miguel-SRI:~$

```

Miguelillo

Windows



```

Win10_SRI [Corriendo] - Oracle VM VirtualBox
Archivo  Máquina  Ver  Entrada  Dispositivos  Ayuda

C:\> Símbolo del sistema

C:\Users\Usuario>ipconfig

Configuración IP de Windows

Adaptador de Ethernet Ethernet:

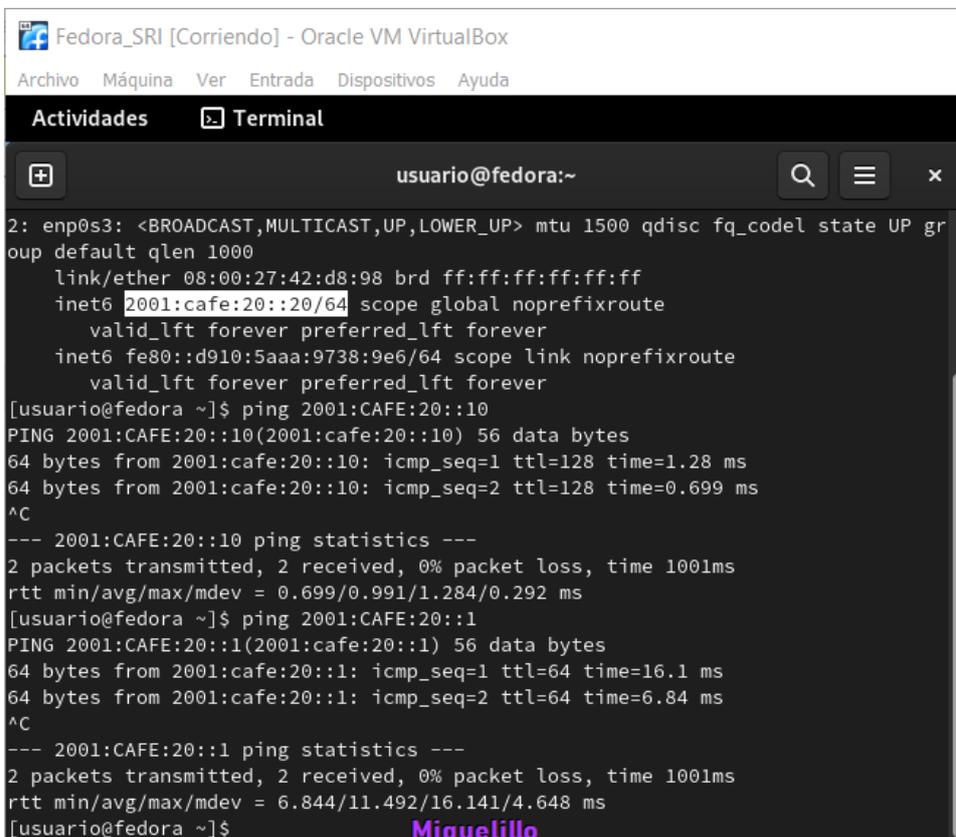
    Sufijo DNS específico para la conexión. . . :
    Dirección IPv6 . . . . . : 2001:cafe:20::10
    Vínculo: dirección IPv6 local. . . : fe80::d4bb:74a5:9d80:a007%3
    Dirección IPv4. . . . . : 192.168.100.3
    Máscara de subred . . . . . : 255.255.255.224
    Puerta de enlace predeterminada . . . . . : 2001:cafe:20::1
                                                192.168.100.1

C:\Users\Usuario>ping 2001:CAFE:20::1

Haciendo ping a 2001:cafe:20::1 con 32 bytes de datos:
Respuesta desde 2001:cafe:20::1: tiempo=10ms
Respuesta desde 2001:cafe:20::1: tiempo=1ms
Respuesta desde 2001:cafe:20::1: tiempo=5ms
Respuesta desde 2001:cafe:20::1: tiempo=5ms
Miguelillo

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Fedora



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Fedora_SRI [Corriendo] - Oracle VM VirtualBox
Archivo  Máquina  Ver  Entrada  Dispositivos  Ayuda

Actividades  Terminal

usuario@fedora:~

2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:42:d8:98 brd ff:ff:ff:ff:ff:ff
    inet6 2001:cafe:20::20/64 scope global noprefixroute
        valid_lft forever preferred_lft forever
    inet6 fe80::d910:5aaa:9738:9e6/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
[usuario@fedora ~]$ ping 2001:CAFE:20::10
PING 2001:CAFE:20::10(2001:cafe:20::10) 56 data bytes
64 bytes from 2001:cafe:20::10: icmp_seq=1 ttl=128 time=1.28 ms
64 bytes from 2001:cafe:20::10: icmp_seq=2 ttl=128 time=0.699 ms
^C
--- 2001:CAFE:20::10 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1001ms
rtt min/avg/max/mdev = 0.699/0.991/1.284/0.292 ms
[usuario@fedora ~]$ ping 2001:CAFE:20::1
PING 2001:CAFE:20::1(2001:cafe:20::1) 56 data bytes
64 bytes from 2001:cafe:20::1: icmp_seq=1 ttl=64 time=16.1 ms
64 bytes from 2001:cafe:20::1: icmp_seq=2 ttl=64 time=6.84 ms
^C
--- 2001:CAFE:20::1 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1001ms
rtt min/avg/max/mdev = 6.844/11.492/16.141/4.648 ms
[usuario@fedora ~]$
Miguelillo

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