NOMBRE: SOTO CARVAJAL SAUL OSCAR

SEMESTRE: SEPTIMO U.A LA PAZ

MATERIA: REDES DE COMPUTADORAS III

FECHA: 4/08/2022

60
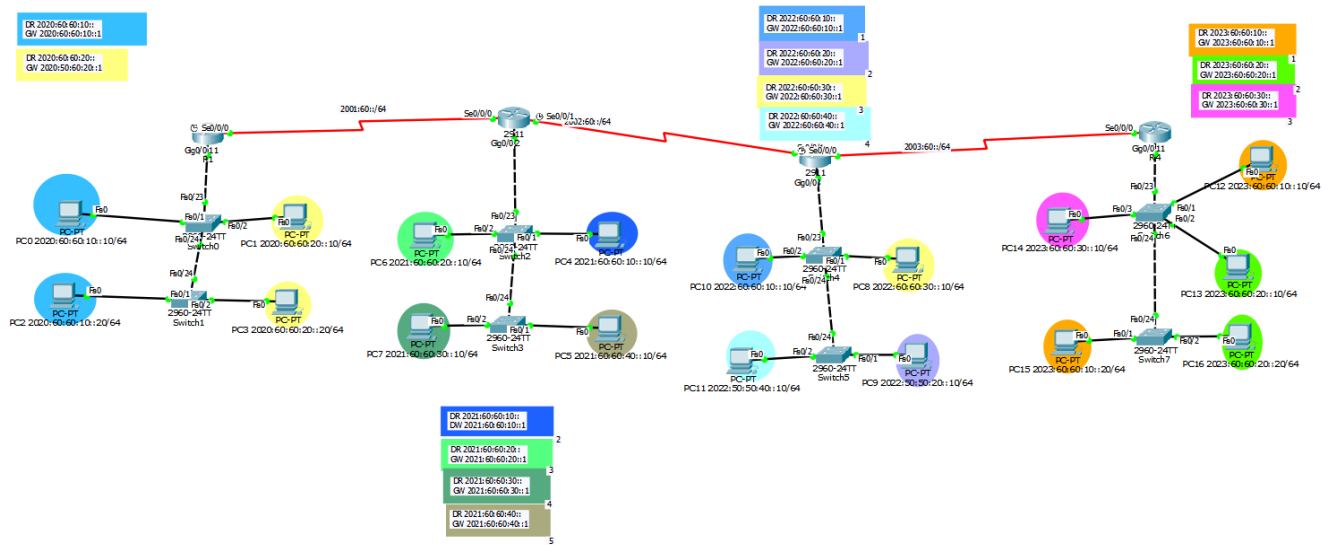
1.TOPOLOGIA DE RED

2.interfaces de lso routers

Router 1

```
R1#show ipv interface brief
GigabitEthernet0/0          [up/up]
GigabitEthernet0/0.2        [up/up]
    FE80::260:5CFF:FE4C:1901
    2020:60:60:10::1
GigabitEthernet0/0.3        [up/up]
    FE80::260:5CFF:FE4C:1901
    2020:60:60:20::1
GigabitEthernet0/1          [administratively down/down]
GigabitEthernet0/2          [administratively down/down]
Serial0/0/0                 [up/up]
    FE80::260:5CFF:FE4C:1901
    2001:60::1
Serial0/0/1                 [administratively down/down]
Vlan1                       [administratively down/down]
R1#
```

Router 2

```
R2#show ipv interface brief
GigabitEthernet0/0          [up/up]
GigabitEthernet0/0.2        [up/up]
    FE80::20B:BEFF:FE44:7901
    2021:60:60:10::1
GigabitEthernet0/0.3        [up/up]
    FE80::20B:BEFF:FE44:7901
    2021:60:60:20::1
GigabitEthernet0/0.4        [up/up]
    FE80::20B:BEFF:FE44:7901
    2021:60:60:30::1
GigabitEthernet0/0.5        [up/up]
    FE80::20B:BEFF:FE44:7901
    2021:60:60:40::1
GigabitEthernet0/1          [administratively down/down]
GigabitEthernet0/2          [administratively down/down]
Serial0/0/0                 [up/up]
    FE80::20B:BEFF:FE44:7901
    2001:60::2
Serial0/0/1                 [up/up]
    FE80::20B:BEFF:FE44:7901
    2002:60::1
Serial0/1/0                 [administratively down/down]
Serial0/1/1                 [administratively down/down]
Vlan1                       [administratively down/down]
R2#
```

Router 3

```
R3#show ipv interface brief
GigabitEthernet0/0          [up/up]
GigabitEthernet0/0.1        [up/up]
    FE80::201:42FF:FE13:CB01
    2022:60:60:10::1
GigabitEthernet0/0.2        [up/up]
    FE80::201:42FF:FE13:CB01
    2022:60:60:20::1
GigabitEthernet0/0.3        [up/up]
    FE80::201:42FF:FE13:CB01
    2022:60:60:30::1
GigabitEthernet0/0.4        [up/up]
    FE80::201:42FF:FE13:CB01
    2022:60:60:40::1
GigabitEthernet0/1          [administratively down/down]
GigabitEthernet0/2          [administratively down/down]
Serial0/0/0                 [up/up]
    FE80::201:42FF:FE13:CB01
    2003:60::1
Serial0/0/1                 [up/up]
    FE80::201:42FF:FE13:CB01
    2002:60::2
Serial0/1/0                 [administratively down/down]
Serial0/1/1                 [administratively down/down]
Vlan1                       [administratively down/down]
R3#
```

Router 4

```
R4#show ipv interface brief
GigabitEthernet0/0          [up/up]
GigabitEthernet0/0.1        [up/up]
    FE80::2E0:F7FF:FEC0:9301
    2023:60:60:10::1
GigabitEthernet0/0.2        [up/up]
    FE80::2E0:F7FF:FEC0:9301
    2023:60:60:20::1
GigabitEthernet0/0.3        [up/up]
    FE80::2E0:F7FF:FEC0:9301
    2023:60:60:30::1
GigabitEthernet0/1          [administratively down/down]
GigabitEthernet0/2          [administratively down/down]
Serial0/0/0                 [up/up]
    FE80::2E0:F7FF:FEC0:9301
    2003:60::2
Serial0/0/1                 [administratively down/down]
Vlan1                       [administratively down/down]
R4#
```

3. tabla de enrutamineto

Router 1

```
R1#show ipv route
IPv6 Routing Table - 8 entries
Codes: C - Connected, L - Local, S - Static, R - RIP, B - BGP
       U - Per-user Static route, M - MIPv6
       I1 - ISIS L1, I2 - ISIS L2, IA - ISIS interarea, IS - ISIS summary
       O - OSPF intra, OI - OSPF inter, OE1 - OSPF ext 1, OE2 - OSPF ext 2
       ON1 - OSPF NSSA ext 1, ON2 - OSPF NSSA ext 2
       D - EIGRP, EX - EIGRP external
S    ::/0 [1/0]
     via Serial0/0/0, directly connected
C    2001:60::/64 [0/0]
     via Serial0/0/0, directly connected
L    2001:60::1/128 [0/0]
     via Serial0/0/0, receive
C    2020:60:60:10::/64 [0/0]
     via GigabitEthernet0/0.2, directly connected
L    2020:60:60:10::1/128 [0/0]
     via GigabitEthernet0/0.2, receive
C    2020:60:60:20::/64 [0/0]
     via GigabitEthernet0/0.3, directly connected
L    2020:60:60:20::1/128 [0/0]
     via GigabitEthernet0/0.3, receive
L    FF00::/8 [0/0]
     via Null0, receive
R1#
R1#
```

Router 2

```
R2#
R2#show ipv route
IPv6 Routing Table - 22 entries
Codes: C - Connected, L - Local, S - Static, R - RIP, B - BGP
       U - Per-user Static route, M - MIPv6
       I1 - ISIS L1, I2 - ISIS L2, IA - ISIS interarea, IS - ISIS summary
       O - OSPF intra, OI - OSPF inter, OE1 - OSPF ext 1, OE2 - OSPF ext 2
       ON1 - OSPF NSSA ext 1, ON2 - OSPF NSSA ext 2
       D - EIGRP, EX - EIGRP external
C    2001:60::/64 [0/0]
     via Serial0/0/0, directly connected
L    2001:60::2/128 [0/0]
     via Serial0/0/0, receive
C    2002:60::/64 [0/0]
     via Serial0/0/1, directly connected
L    2002:60::1/128 [0/0]
     via Serial0/0/1, receive
S    2020:60:60:10::/64 [1/0]
     via Serial0/0/0, directly connected
S    2020:60:60:20::/64 [1/0]
     via Serial0/0/0, directly connected
C    2021:60:60:10::/64 [0/0]
     via GigabitEthernet0/0.2, directly connected
L    2021:60:60:10::1/128 [0/0]
     via GigabitEthernet0/0.2, receive
C    2021:60:60:20::/64 [0/0]
     via GigabitEthernet0/0.3, directly connected
L    2021:60:60:20::1/128 [0/0]
     via GigabitEthernet0/0.3, receive
C    2021:60:60:30::/64 [0/0]
     via GigabitEthernet0/0.4, directly connected
L    2021:60:60:30::1/128 [0/0]
     via GigabitEthernet0/0.4, receive
C    2021:60:60:40::/64 [0/0]
     via GigabitEthernet0/0.5, directly connected
L    2021:60:60:40::1/128 [0/0]
     via GigabitEthernet0/0.5, receive
S    2022:60:60:10::/64 [1/0]
     via Serial0/0/1, directly connected
S    2022:60:60:20::/64 [1/0]
     via Serial0/0/1, directly connected
S    2022:60:60:30::/64 [1/0]
     via Serial0/0/1, directly connected
S    2022:60:60:40::/64 [1/0]
     via Serial0/0/1, directly connected
S    2023:60:60:10::/64 [1/0]
     via Serial0/0/1, directly connected
S    2023:60:60:20::/64 [1/0]
     via Serial0/0/1, directly connected
S    2023:60:60:30::/64 [1/0]
     via Serial0/0/1, directly connected
L    FF00::/8 [0/0]
     via Null0, receive
R2#
```

Router 3

```
Vlan1                       [administratively down/down]
R3#show ipv route
IPv6 Routing Table - 22 entries
Codes: C - Connected, L - Local, S - Static, R - RIP, B - BGP
       U - Per-user Static route, M - MIPv6
       I1 - ISIS L1, I2 - ISIS L2, IA - ISIS interarea, IS - ISIS summary
       O - OSPF intra, OI - OSPF inter, OE1 - OSPF ext 1, OE2 - OSPF ext 2
       ON1 - OSPF NSSA ext 1, ON2 - OSPF NSSA ext 2
       D - EIGRP, EX - EIGRP external
C   2002:60::/64 [0/0]
     via Serial0/0/1, directly connected
L   2002:60::2/128 [0/0]
     via Serial0/0/1, receive
C   2003:60::/64 [0/0]
     via Serial0/0/0, directly connected
L   2003:60::1/128 [0/0]
     via Serial0/0/0, receive
S   2020:60:60:10::/64 [1/0]
     via Serial0/0/1, directly connected
S   2020:60:60:20::/64 [1/0]
     via Serial0/0/1, directly connected
S   2021:60:60:10::/64 [1/0]
     via Serial0/0/1, directly connected
S   2021:60:60:20::/64 [1/0]
     via Serial0/0/1, directly connected
S   2021:60:60:30::/64 [1/0]
     via Serial0/0/1, directly connected
S   2021:60:60:40::/64 [1/0]
     via Serial0/0/1, directly connected
C   2022:60:60:10::/64 [0/0]
     via GigabitEthernet0/0.1, directly connected
L   2022:60:60:10::1/128 [0/0]
     via GigabitEthernet0/0.1, receive
C   2022:60:60:20::/64 [0/0]
     via GigabitEthernet0/0.2, directly connected
L   2022:60:60:20::1/128 [0/0]
     via GigabitEthernet0/0.2, receive
C   2022:60:60:30::/64 [0/0]
     via GigabitEthernet0/0.3, directly connected
L   2022:60:60:30::1/128 [0/0]
     via GigabitEthernet0/0.3, receive
C   2022:60:60:40::/64 [0/0]
     via GigabitEthernet0/0.4, directly connected
L   2022:60:60:40::1/128 [0/0]
     via GigabitEthernet0/0.4, receive
S   2023:60:60:10::/64 [1/0]
     via Serial0/0/0, directly connected
S   2023:60:60:20::/64 [1/0]
     via Serial0/0/0, directly connected
S   2023:60:60:30::/64 [1/0]
     via Serial0/0/0, directly connected
L   FF00::/8 [0/0]
     via Null0, receive
R3#
```

Copy   Paste

Router 4

```
IPv6 Routing Table - 10 entries
Codes: C - Connected, L - Local, S - Static, R - RIP, B - BGP
       U - Per-user Static route, M - MIPv6
       I1 - ISIS L1, I2 - ISIS L2, IA - ISIS interarea, IS - ISIS summary
       O - OSPF intra, OI - OSPF inter, OE1 - OSPF ext 1, OE2 - OSPF ext 2
       ON1 - OSPF NSSA ext 1, ON2 - OSPF NSSA ext 2
       D - EIGRP, EX - EIGRP external
S    ::/0 [1/0]
     via Serial0/0/0, directly connected
C    2003:60::/64 [0/0]
     via Serial0/0/0, directly connected
L    2003:60::2/128 [0/0]
     via Serial0/0/0, receive
C    2023:60:60:10::/64 [0/0]
     via GigabitEthernet0/0.1, directly connected
L    2023:60:60:10::1/128 [0/0]
     via GigabitEthernet0/0.1, receive
C    2023:60:60:20::/64 [0/0]
     via GigabitEthernet0/0.2, directly connected
L    2023:60:60:20::1/128 [0/0]
     via GigabitEthernet0/0.2, receive
C    2023:60:60:30::/64 [0/0]
     via GigabitEthernet0/0.3, directly connected
L    2023:60:60:30::1/128 [0/0]
     via GigabitEthernet0/0.3, receive
L    FF00::/8 [0/0]
     via Null0, receive
R4#
```

Copy   Paste

4. prueba de conectividad

PDU List Window

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Dele
●	Successful	PC0 2020:60:60:10::10/64	PC1 2020:60:60:20::10/64	ICMP...		0.000	N	0	(edit)	
●	Successful	PC0 2020:60:60:10::10/64	PC2 2020:60:60:10::20/64	ICMP...		0.000	N	1	(edit)	
●	Successful	PC0 2020:60:60:10::10/64	PC3 2020:60:60:20::20/64	ICMP...		0.000	N	2	(edit)	
●	Successful	PC0 2020:60:60:10::10/64	PC4 2021:60:60:10::10/64	ICMP...		0.000	N	3	(edit)	
●	Successful	PC0 2020:60:60:10::10/64	PC5 2021:60:60:40::10/64	ICMP...		0.000	N	4	(edit)	
●	Successful	PC0 2020:60:60:10::10/64	PC6 2021:60:60:20::10/64	ICMP...		0.000	N	5	(edit)	
●	Successful	PC0 2020:60:60:10::10/64	PC7 2021:60:60:30::10/64	ICMP...		0.000	N	6	(edit)	
●	Successful	PC0 2020:60:60:10::10/64	PC8 2022:60:60:30::10/64	ICMP...		0.000	N	7	(edit)	
●	Successful	PC0 2020:60:60:10::10/64	PC9 2022:50:50:20::10/64	ICMP...		0.000	N	8	(edit)	
●	Successful	PC0 2020:60:60:10::10/64	PC10 2022:60:60:10::10/64	ICMP...		0.000	N	9	(edit)	
●	Successful	PC0 2020:60:60:10::10/64	PC11 2022:50:50:40::10/64	ICMP...		0.000	N	10	(edit)	
●	Successful	PC0 2020:60:60:10::10/64	PC12 2023:60:60:10::10/64	ICMP...		0.000	N	11	(edit)	
●	Successful	PC0 2020:60:60:10::10/64	PC13 2023:60:60:20::10/64	ICMP...		0.000	N	12	(edit)	
●	Successful	PC0 2020:60:60:10::10/64	PC14 2023:60:60:30::10/64	ICMP...		0.000	N	13	(edit)	
●	Successful	PC0 2020:60:60:10::10/64	PC15 2023:60:60:10::20/64	ICMP...		0.000	N	14	(edit)	
●	Successful	PC0 2020:60:60:10::10/64	PC16 2023:60:60:20::20/64	ICMP...		0.000	N	15	(edit)	