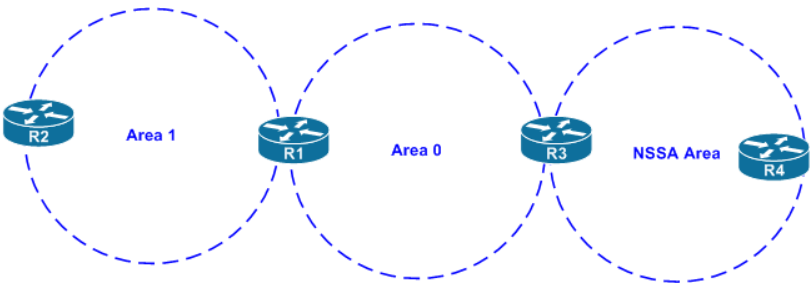
**Multi-area OSPF IPv4 and IPv6 Lab**

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Purpose

The purpose of this lab was to set up multi-area OSPF with both IPv4 and IPv6 with multiple networks on different OSPF areas. This was done to practice setting up OSPF over multiple areas with IPv4 and to get them to successfully communicate with each other. In addition, this lab was used to review the process to IPv6 OSPF and how to set up OSPF over multiple areas using IPv6. Reviewing IPv6 commands and OSPF commands on IPv6 was a big part of this lab since multiple problems came up while setting IPv6.

Background Information

OSPF is a process that is used instead of RIP for faster and more efficient connections between points in networks. It reduces the amount of manual labor when needing to set up a network due to the Autonomous System it has which decides for the network what routes the traffic should be sent in. Multi-area OSPF is used when needing to set up multiple networks for, for example, different departments in a company since by dividing the networks, it reduces the cost of each one and it makes the networks easier to manage with ABRs (Area Border Routers). The ABRs in the different areas for OSPF connect to a DR (Designated Router) which manages the LSAs (Link State Advertisement). The LSAs is the information of the entire network and the DR is in charge of sending out the information to everyone in the network. This makes it possible for everything to ping with each other.

OSPF version 2 (OSPFv2) is what is used for networks using IPv4, but as IPv6 addresses developed­­­, a new version of OSPF was needed to make IPv6 networks more efficient as OSPFv2 did with IPv4 networks, so OSPF version 3 (OSPFv3) was created. OSPFv3 was introduced 1993 to the RFC 2740. The mechanisms of OSPFv2 didn’t change in OSPFv3 as well as the LSA flooding rules and the interface types (broadcast, point-to-point, point-to-multipoint, etc.), but ­­­the LSAs and the packet formats had to change due to the larger 128-bit IPv6 addresses. OSPFv3 added 2 new LSA types: the one used for links called 0x0008, which tells the neighbors of the router about link-local addresses and IPv6 prefixes, and the one used for Intra-Area-Prefix called 0x2009, which states the IPv6 prefixes when connecting to a router. OSPFv3 also allows for there to be more than one instance per process. Instance IDs were used to support multiple instances of IPv6 on the same interface: instance 0 is the default if not other is assigned, 1-31 are used to associate OSPFv3 instances to an interface, 32 is the base for the multicast address family for IPv6 and 64 is the base of IPv4 unicast. These were only a few instances and they go from 0 to 255. OSPFv3 also has better security than OSPFv2­­­

Lab Summary

In Packet Tracer I set up 5 4321 routers connected to each other with serial interfaces and each router was connected to its own PC. There is a total of 9 networks: 4 of them are on the serial connections between the routers and the other 5 are the gigabit connections from the routers to the PCs. Each interface has its own IPv4 and IPv6 address. Routers 2, 3 and 4 have 2 neighbors and Routers 1 and 5 will only have 1. Routers 1, 2, and 3 will be in area 0 while Routers 4 and 5 will be in area 1, but they are all able to connect between each other. The areas, the networks, the PCs and the Routers are all labeled.

Topology

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Description automatically 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Lab Commands

* Router ospf *process id*: starts the configuration of ospf for a router
* Network *network address wildmask address* area #: assigns a network to have ospf
* Traceroute *destination address*: traces how many hops it takes a route to ping
* Show ip ospf neighbor: shows the adjacent neighbors of the router
* Show ipv6 ospf neighbor: shows the adjacent neighbors of the router on ipv6
* Show ip ospf interface: shows the status of ospf in the interfaces of the router
* Show ip ospf: shows information regarding any ospf neighbors, interfaces, states, neighbor’s addresses, and router id
* Router-id *router id*: assigns the router an id
* Ipv6 ospf *process id* area #: adds an interface to an ospfv3 area
* Show ip route: shows ipv4 routing table
* Show ipv6 route: shows ipv6 routing table

Configurations:

Router 1:

Building configuration...

Current configuration : 1094 bytes

version 15.4

no service timestamps log datetime msec

no service timestamps debug datetime msec

no service password-encryption

hostname R1

no ip cef

ipv6 unicast-routing

no ipv6 cef

spanning-tree mode pvst

interface GigabitEthernet0/0/0

ip address 10.0.0.1 255.255.255.0

duplex auto

speed auto

ipv6 address FE80::1 link-local

ipv6 address 2001:1::1/64

ipv6 ospf 1 area 0

interface GigabitEthernet0/0/1

no ip address

duplex auto

speed auto

shutdown

interface Serial0/1/0

no ip address

clock rate 2000000

shutdown

interface Serial0/1/1

ip address 60.0.0.1 255.255.255.0

ipv6 address FE80::1 link-local

ipv6 address 2001:6::1/64

ipv6 ospf 1 area 0

clock rate 2000000

interface Vlan1

no ip address

shutdown

router ospf 1

router-id 1.1.1.1

log-adjacency-changes

network 10.0.0.0 0.0.0.255 area 0

network 60.0.0.0 0.0.0.255 area 0

ipv6 router ospf 1

router-id 1.1.1.1

log-adjacency-changes

ip classless

ip flow-export version 9

line con 0

line aux 0

line vty 0 4

login

end

Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP

D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area

N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2

E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP

i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area

\* - candidate default, U - per-user static route, o - ODR

P - periodic downloaded static route

Gateway of last resort is not set

10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks

C 10.0.0.0/24 is directly connected, GigabitEthernet0/0/0

L 10.0.0.1/32 is directly connected, GigabitEthernet0/0/0

20.0.0.0/24 is subnetted, 1 subnets

O 20.0.0.0/24 [110/65] via 60.0.0.2, 00:04:41, Serial0/1/1

30.0.0.0/24 is subnetted, 1 subnets

O 30.0.0.0/24 [110/129] via 60.0.0.2, 00:04:41, Serial0/1/1

40.0.0.0/24 is subnetted, 1 subnets

O IA 40.0.0.0/24 [110/193] via 60.0.0.2, 00:04:41, Serial0/1/1

50.0.0.0/24 is subnetted, 1 subnets

O IA 50.0.0.0/24 [110/257] via 60.0.0.2, 00:04:41, Serial0/1/1

60.0.0.0/8 is variably subnetted, 2 subnets, 2 masks

C 60.0.0.0/24 is directly connected, Serial0/1/1

L 60.0.0.1/32 is directly connected, Serial0/1/1

70.0.0.0/24 is subnetted, 1 subnets

O 70.0.0.0/24 [110/128] via 60.0.0.2, 00:04:41, Serial0/1/1

80.0.0.0/24 is subnetted, 1 subnets

O IA 80.0.0.0/24 [110/192] via 60.0.0.2, 00:04:41, Serial0/1/1

90.0.0.0/24 is subnetted, 1 subnets

O IA 90.0.0.0/24 [110/256] via 60.0.0.2, 00:04:41, Serial0/1/1

IPv6 Routing Table - 12 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 2001:1::/64 [0/0]

via GigabitEthernet0/0/0, directly connected

L 2001:1::1/128 [0/0]

via GigabitEthernet0/0/0, receive

O 2001:2::/64 [110/65]

via FE80::1, Serial0/1/1

O 2001:3::/64 [110/129]

via FE80::1, Serial0/1/1

OI 2001:4::/64 [110/193]

via FE80::1, Serial0/1/1

OI 2001:5::/64 [110/257]

via FE80::1, Serial0/1/1

C 2001:6::/64 [0/0]

via Serial0/1/1, directly connected

L 2001:6::1/128 [0/0]

via Serial0/1/1, receive

O 2001:7::/64 [110/128]

via FE80::1, Serial0/1/1

OI 2001:8::/64 [110/192]

via FE80::1, Serial0/1/1

OI 2001:9::/64 [110/256]

via FE80::1, Serial0/1/1

L FF00::/8 [0/0]

via Null0, receive

Neighbor ID Pri State Dead Time Address Interface

2.2.2.2 0 FULL/ - 00:00:35 60.0.0.2 Serial0/1/1

Neighbor ID Pri State Dead Time Interface ID Interface

2.2.2.2 0 FULL/ - 00:00:36 3 Serial0/1/1

GigabitEthernet0/0/0 is up, line protocol is up

Internet address is 10.0.0.1/24, Area 0

Process ID 1, Router ID 1.1.1.1, Network Type BROADCAST, Cost: 1

Transmit Delay is 1 sec, State DR, Priority 1

Designated Router (ID) 1.1.1.1, Interface address 10.0.0.1

No backup designated router on this network

Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5

Hello due in 00:00:05

Index 1/1, flood queue length 0

Next 0x0(0)/0x0(0)

Last flood scan length is 1, maximum is 1

Last flood scan time is 0 msec, maximum is 0 msec

Neighbor Count is 0, Adjacent neighbor count is 0

Suppress hello for 0 neighbor(s)

Serial0/1/1 is up, line protocol is up

Internet address is 60.0.0.1/24, Area 0

Process ID 1, Router ID 1.1.1.1, Network Type POINT-TO-POINT, Cost: 64

Transmit Delay is 1 sec, State POINT-TO-POINT,

Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5

Hello due in 00:00:05

Index 2/2, flood queue length 0

Next 0x0(0)/0x0(0)

Last flood scan length is 1, maximum is 1

Last flood scan time is 0 msec, maximum is 0 msec

Neighbor Count is 1 , Adjacent neighbor count is 1

Adjacent with neighbor 2.2.2.2

Suppress hello for 0 neighbor(s)

GigabitEthernet0/0/0 is up, line protocol is up

Link Local Address FE80::1, Interface ID 1

Area 0, Process ID 1, Instance ID 0, Router ID 1.1.1.1

Network Type BROADCAST, Cost: 1

Transmit Delay is 1 sec, State DR, Priority 1

Designated Router (ID) 1.1.1.1, local address FE80::1

No backup designated router on this network

Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5

Hello due in 00:00:04

Index 1/1, flood queue length 0

Next 0x0(0)/0x0(0)

Last flood scan length is 1, maximum is 1

Last flood scan time is 0 msec, maximum is 0 msec

Neighbor Count is 0, Adjacent neighbor count is 0

Suppress hello for 0 neighbor(s)

Serial0/1/1 is up, line protocol is up

Link Local Address FE80::1, Interface ID 4

Area 0, Process ID 1, Instance ID 0, Router ID 1.1.1.1

Network Type POINT-TO-POINT, Cost: 64

Transmit Delay is 1 sec, State POINT-TO-POINT,

Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5

Hello due in 00:00:04

Index 2/2, flood queue length 0

Next 0x0(0)/0x0(0)

Last flood scan length is 1, maximum is 1

Last flood scan time is 0 msec, maximum is 0 msec

Neighbor Count is 1 , Adjacent neighbor count is 1

Adjacent with neighbor 2.2.2.2

Suppress hello for 0 neighbor(s)

Router 2:

Building configuration...

Current configuration : 1199 bytes

version 15.4

no service timestamps log datetime msec

no service timestamps debug datetime msec

no service password-encryption

hostname R2

no ip cef

ipv6 unicast-routing

no ipv6 cef

spanning-tree mode pvst

interface GigabitEthernet0/0/0

ip address 20.0.0.1 255.255.255.0

duplex auto

speed auto

ipv6 address FE80::1 link-local

ipv6 address 2001:2::1/64

ipv6 ospf 1 area 0

interface GigabitEthernet0/0/1

no ip address

duplex auto

speed auto

shutdown

interface Serial0/1/0

ip address 60.0.0.2 255.255.255.0

ipv6 address FE80::1 link-local

ipv6 address 2001:6::2/64

ipv6 ospf 1 area 0

interface Serial0/1/1

ip address 70.0.0.1 255.255.255.0

ipv6 address FE80::1 link-local

ipv6 address 2001:7::1/64

ipv6 ospf 1 area 0

clock rate 2000000

interface Vlan1

no ip address

shutdown

router ospf 1

router-id 2.2.2.2

log-adjacency-changes

network 20.0.0.0 0.0.0.255 area 0

network 60.0.0.0 0.0.0.255 area 0

network 70.0.0.0 0.0.0.255 area 0

ipv6 router ospf 1

router-id 2.2.2.2

log-adjacency-changes

ip classless

ip flow-export version 9

line con 0

line aux 0

line vty 0 4

login

end

Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP

D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area

N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2

E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP

i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area

\* - candidate default, U - per-user static route, o - ODR

P - periodic downloaded static route

Gateway of last resort is not set

10.0.0.0/24 is subnetted, 1 subnets

O 10.0.0.0/24 [110/65] via 60.0.0.1, 00:17:37, Serial0/1/0

20.0.0.0/8 is variably subnetted, 2 subnets, 2 masks

C 20.0.0.0/24 is directly connected, GigabitEthernet0/0/0

L 20.0.0.1/32 is directly connected, GigabitEthernet0/0/0

30.0.0.0/24 is subnetted, 1 subnets

O 30.0.0.0/24 [110/65] via 70.0.0.2, 00:17:37, Serial0/1/1

40.0.0.0/24 is subnetted, 1 subnets

O IA 40.0.0.0/24 [110/129] via 70.0.0.2, 00:17:37, Serial0/1/1

50.0.0.0/24 is subnetted, 1 subnets

O IA 50.0.0.0/24 [110/193] via 70.0.0.2, 00:17:37, Serial0/1/1

60.0.0.0/8 is variably subnetted, 2 subnets, 2 masks

C 60.0.0.0/24 is directly connected, Serial0/1/0

L 60.0.0.2/32 is directly connected, Serial0/1/0

70.0.0.0/8 is variably subnetted, 2 subnets, 2 masks

C 70.0.0.0/24 is directly connected, Serial0/1/1

L 70.0.0.1/32 is directly connected, Serial0/1/1

80.0.0.0/24 is subnetted, 1 subnets

O IA 80.0.0.0/24 [110/128] via 70.0.0.2, 00:17:37, Serial0/1/1

90.0.0.0/24 is subnetted, 1 subnets

O IA 90.0.0.0/24 [110/192] via 70.0.0.2, 00:17:37, Serial0/1/1

IPv6 Routing Table - 13 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

O 2001:1::/64 [110/65]

via FE80::1, Serial0/1/0

C 2001:2::/64 [0/0]

via GigabitEthernet0/0/0, directly connected

L 2001:2::1/128 [0/0]

via GigabitEthernet0/0/0, receive

O 2001:3::/64 [110/65]

via FE80::1, Serial0/1/1

OI 2001:4::/64 [110/129]

via FE80::1, Serial0/1/1

OI 2001:5::/64 [110/193]

via FE80::1, Serial0/1/1

C 2001:6::/64 [0/0]

via Serial0/1/0, directly connected

L 2001:6::2/128 [0/0]

via Serial0/1/0, receive

C 2001:7::/64 [0/0]

via Serial0/1/1, directly connected

L 2001:7::1/128 [0/0]

via Serial0/1/1, receive

OI 2001:8::/64 [110/128]

via FE80::1, Serial0/1/1

OI 2001:9::/64 [110/192]

via FE80::1, Serial0/1/1

L FF00::/8 [0/0]

via Null0, receive

Neighbor ID Pri State Dead Time Address Interface

3.3.3.3 0 FULL/ - 00:00:33 70.0.0.2 Serial0/1/1

1.1.1.1 0 FULL/ - 00:00:33 60.0.0.1 Serial0/1/0

Neighbor ID Pri State Dead Time Interface ID Interface

3.3.3.3 0 FULL/ - 00:00:31 3 Serial0/1/1

1.1.1.1 0 FULL/ - 00:00:31 4 Serial0/1/0

GigabitEthernet0/0/0 is up, line protocol is up

Internet address is 20.0.0.1/24, Area 0

Process ID 1, Router ID 2.2.2.2, Network Type BROADCAST, Cost: 1

Transmit Delay is 1 sec, State DR, Priority 1

Designated Router (ID) 2.2.2.2, Interface address 20.0.0.1

No backup designated router on this network

Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5

Hello due in 00:00:03

Index 1/1, flood queue length 0

Next 0x0(0)/0x0(0)

Last flood scan length is 1, maximum is 1

Last flood scan time is 0 msec, maximum is 0 msec

Neighbor Count is 0, Adjacent neighbor count is 0

Suppress hello for 0 neighbor(s)

Serial0/1/1 is up, line protocol is up

Internet address is 70.0.0.1/24, Area 0

Process ID 1, Router ID 2.2.2.2, Network Type POINT-TO-POINT, Cost: 64

Transmit Delay is 1 sec, State POINT-TO-POINT,

Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5

Hello due in 00:00:03

Index 2/2, flood queue length 0

Next 0x0(0)/0x0(0)

Last flood scan length is 1, maximum is 1

Last flood scan time is 0 msec, maximum is 0 msec

Neighbor Count is 1 , Adjacent neighbor count is 1

Adjacent with neighbor 3.3.3.3

Suppress hello for 0 neighbor(s)

Serial0/1/0 is up, line protocol is up

Internet address is 60.0.0.2/24, Area 0

Process ID 1, Router ID 2.2.2.2, Network Type POINT-TO-POINT, Cost: 64

Transmit Delay is 1 sec, State POINT-TO-POINT,

Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5

Hello due in 00:00:03

Index 3/3, flood queue length 0

Next 0x0(0)/0x0(0)

Last flood scan length is 1, maximum is 1

Last flood scan time is 0 msec, maximum is 0 msec

Neighbor Count is 1 , Adjacent neighbor count is 1

Adjacent with neighbor 1.1.1.1

Suppress hello for 0 neighbor(s)

GigabitEthernet0/0/0 is up, line protocol is up

Link Local Address FE80::1, Interface ID 1

Area 0, Process ID 1, Instance ID 0, Router ID 2.2.2.2

Network Type BROADCAST, Cost: 1

Transmit Delay is 1 sec, State DR, Priority 1

Designated Router (ID) 2.2.2.2, local address FE80::1

No backup designated router on this network

Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5

Hello due in 00:00:09

Index 1/1, flood queue length 0

Next 0x0(0)/0x0(0)

Last flood scan length is 1, maximum is 1

Last flood scan time is 0 msec, maximum is 0 msec

Neighbor Count is 0, Adjacent neighbor count is 0

Suppress hello for 0 neighbor(s)

Serial0/1/1 is up, line protocol is up

Link Local Address FE80::1, Interface ID 4

Area 0, Process ID 1, Instance ID 0, Router ID 2.2.2.2

Network Type POINT-TO-POINT, Cost: 64

Transmit Delay is 1 sec, State POINT-TO-POINT,

Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5

Hello due in 00:00:09

Index 2/2, flood queue length 0

Next 0x0(0)/0x0(0)

Last flood scan length is 1, maximum is 1

Last flood scan time is 0 msec, maximum is 0 msec

Neighbor Count is 1 , Adjacent neighbor count is 1

Adjacent with neighbor 3.3.3.3

Suppress hello for 0 neighbor(s)

Serial0/1/0 is up, line protocol is up

Link Local Address FE80::1, Interface ID 3

Area 0, Process ID 1, Instance ID 0, Router ID 2.2.2.2

Network Type POINT-TO-POINT, Cost: 64

Transmit Delay is 1 sec, State POINT-TO-POINT,

Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5

Hello due in 00:00:09

Index 3/3, flood queue length 0

Next 0x0(0)/0x0(0)

Last flood scan length is 1, maximum is 1

Last flood scan time is 0 msec, maximum is 0 msec

Neighbor Count is 1 , Adjacent neighbor count is 1

Adjacent with neighbor 1.1.1.1

Suppress hello for 0 neighbor(s)

Router 3:

Building configuration...

Current configuration : 1199 bytes

version 15.4

no service timestamps log datetime msec

no service timestamps debug datetime msec

no service password-encryption

hostname R3

no ip cef

ipv6 unicast-routing

no ipv6 cef

spanning-tree mode pvst

interface GigabitEthernet0/0/0

ip address 30.0.0.1 255.255.255.0

duplex auto

speed auto

ipv6 address FE80::1 link-local

ipv6 address 2001:3::1/64

ipv6 ospf 1 area 0

interface GigabitEthernet0/0/1

no ip address

duplex auto

speed auto

shutdown

interface Serial0/1/0

ip address 70.0.0.2 255.255.255.0

ipv6 address FE80::1 link-local

ipv6 address 2001:7::2/64

ipv6 ospf 1 area 0

interface Serial0/1/1

ip address 80.0.0.1 255.255.255.0

ipv6 address FE80::2 link-local

ipv6 address 2001:8::1/64

ipv6 ospf 1 area 1

clock rate 2000000

interface Vlan1

no ip address

shutdown

router ospf 1

router-id 3.3.3.3

log-adjacency-changes

network 70.0.0.0 0.0.0.255 area 0

network 30.0.0.0 0.0.0.255 area 0

network 80.0.0.0 0.0.0.255 area 1

ipv6 router ospf 1

router-id 3.3.3.3

log-adjacency-changes

ip classless

ip flow-export version 9

line con 0

line aux 0

line vty 0 4

login

end

Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP

D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area

N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2

E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP

i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area

\* - candidate default, U - per-user static route, o - ODR

P - periodic downloaded static route

Gateway of last resort is not set

10.0.0.0/24 is subnetted, 1 subnets

O 10.0.0.0/24 [110/129] via 70.0.0.1, 08:26:56, Serial0/1/0

20.0.0.0/24 is subnetted, 1 subnets

O 20.0.0.0/24 [110/65] via 70.0.0.1, 08:26:56, Serial0/1/0

30.0.0.0/8 is variably subnetted, 2 subnets, 2 masks

C 30.0.0.0/24 is directly connected, GigabitEthernet0/0/0

L 30.0.0.1/32 is directly connected, GigabitEthernet0/0/0

40.0.0.0/24 is subnetted, 1 subnets

O 40.0.0.0/24 [110/65] via 80.0.0.2, 08:26:56, Serial0/1/1

50.0.0.0/24 is subnetted, 1 subnets

O 50.0.0.0/24 [110/129] via 80.0.0.2, 08:26:56, Serial0/1/1

60.0.0.0/24 is subnetted, 1 subnets

O 60.0.0.0/24 [110/128] via 70.0.0.1, 08:26:56, Serial0/1/0

70.0.0.0/8 is variably subnetted, 2 subnets, 2 masks

C 70.0.0.0/24 is directly connected, Serial0/1/0

L 70.0.0.2/32 is directly connected, Serial0/1/0

80.0.0.0/8 is variably subnetted, 2 subnets, 2 masks

C 80.0.0.0/24 is directly connected, Serial0/1/1

L 80.0.0.1/32 is directly connected, Serial0/1/1

90.0.0.0/24 is subnetted, 1 subnets

O 90.0.0.0/24 [110/128] via 80.0.0.2, 08:26:56, Serial0/1/1

IPv6 Routing Table - 13 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

O 2001:1::/64 [110/129]

via FE80::1, Serial0/1/0

O 2001:2::/64 [110/65]

via FE80::1, Serial0/1/0

C 2001:3::/64 [0/0]

via GigabitEthernet0/0/0, directly connected

L 2001:3::1/128 [0/0]

via GigabitEthernet0/0/0, receive

O 2001:4::/64 [110/65]

via FE80::2, Serial0/1/1

O 2001:5::/64 [110/129]

via FE80::2, Serial0/1/1

O 2001:6::/64 [110/128]

via FE80::1, Serial0/1/0

C 2001:7::/64 [0/0]

via Serial0/1/0, directly connected

L 2001:7::2/128 [0/0]

via Serial0/1/0, receive

C 2001:8::/64 [0/0]

via Serial0/1/1, directly connected

L 2001:8::1/128 [0/0]

via Serial0/1/1, receive

O 2001:9::/64 [110/128]

via FE80::2, Serial0/1/1

L FF00::/8 [0/0]

via Null0, receive

Neighbor ID Pri State Dead Time Address Interface

2.2.2.2 0 FULL/ - 00:00:34 70.0.0.1 Serial0/1/0

4.4.4.4 0 FULL/ - 00:00:37 80.0.0.2 Serial0/1/1

Neighbor ID Pri State Dead Time Interface ID Interface

2.2.2.2 0 FULL/ - 00:00:38 4 Serial0/1/0

4.4.4.4 0 FULL/ - 00:00:38 3 Serial0/1/1

GigabitEthernet0/0/0 is up, line protocol is up

Internet address is 30.0.0.1/24, Area 0

Process ID 1, Router ID 3.3.3.3, Network Type BROADCAST, Cost: 1

Transmit Delay is 1 sec, State DR, Priority 1

Designated Router (ID) 3.3.3.3, Interface address 30.0.0.1

No backup designated router on this network

Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5

Hello due in 00:00:06

Index 1/1, flood queue length 0

Next 0x0(0)/0x0(0)

Last flood scan length is 1, maximum is 1

Last flood scan time is 0 msec, maximum is 0 msec

Neighbor Count is 0, Adjacent neighbor count is 0

Suppress hello for 0 neighbor(s)

Serial0/1/0 is up, line protocol is up

Internet address is 70.0.0.2/24, Area 0

Process ID 1, Router ID 3.3.3.3, Network Type POINT-TO-POINT, Cost: 64

Transmit Delay is 1 sec, State POINT-TO-POINT,

Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5

Hello due in 00:00:06

Index 2/2, flood queue length 0

Next 0x0(0)/0x0(0)

Last flood scan length is 1, maximum is 1

Last flood scan time is 0 msec, maximum is 0 msec

Neighbor Count is 1 , Adjacent neighbor count is 1

Adjacent with neighbor 2.2.2.2

Suppress hello for 0 neighbor(s)

Serial0/1/1 is up, line protocol is up

Internet address is 80.0.0.1/24, Area 1

Process ID 1, Router ID 3.3.3.3, Network Type POINT-TO-POINT, Cost: 64

Transmit Delay is 1 sec, State POINT-TO-POINT,

Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5

Hello due in 00:00:06

Index 3/3, flood queue length 0

Next 0x0(0)/0x0(0)

Last flood scan length is 1, maximum is 1

Last flood scan time is 0 msec, maximum is 0 msec

Neighbor Count is 1 , Adjacent neighbor count is 1

Adjacent with neighbor 4.4.4.4

Suppress hello for 0 neighbor(s)

GigabitEthernet0/0/0 is up, line protocol is up

Link Local Address FE80::1, Interface ID 1

Area 0, Process ID 1, Instance ID 0, Router ID 3.3.3.3

Network Type BROADCAST, Cost: 1

Transmit Delay is 1 sec, State DR, Priority 1

Designated Router (ID) 3.3.3.3, local address FE80::1

No backup designated router on this network

Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5

Hello due in 00:00:02

Index 1/1, flood queue length 0

Next 0x0(0)/0x0(0)

Last flood scan length is 1, maximum is 1

Last flood scan time is 0 msec, maximum is 0 msec

Neighbor Count is 0, Adjacent neighbor count is 0

Suppress hello for 0 neighbor(s)

Serial0/1/0 is up, line protocol is up

Link Local Address FE80::1, Interface ID 3

Area 0, Process ID 1, Instance ID 0, Router ID 3.3.3.3

Network Type POINT-TO-POINT, Cost: 64

Transmit Delay is 1 sec, State POINT-TO-POINT,

Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5

Hello due in 00:00:01

Index 2/2, flood queue length 0

Next 0x0(0)/0x0(0)

Last flood scan length is 1, maximum is 1

Last flood scan time is 0 msec, maximum is 0 msec

Neighbor Count is 1 , Adjacent neighbor count is 1

Adjacent with neighbor 2.2.2.2

Suppress hello for 0 neighbor(s)

Serial0/1/1 is up, line protocol is up

Link Local Address FE80::2, Interface ID 4

Area 1, Process ID 1, Instance ID 0, Router ID 3.3.3.3

Network Type POINT-TO-POINT, Cost: 64

Transmit Delay is 1 sec, State POINT-TO-POINT,

Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5

Hello due in 00:00:01

Index 3/3, flood queue length 0

Next 0x0(0)/0x0(0)

Last flood scan length is 1, maximum is 1

Last flood scan time is 0 msec, maximum is 0 msec

Neighbor Count is 1 , Adjacent neighbor count is 1

Adjacent with neighbor 4.4.4.4

Suppress hello for 0 neighbor(s)

Router 4:

Building configuration...

Current configuration : 1199 bytes

version 15.4

no service timestamps log datetime msec

no service timestamps debug datetime msec

no service password-encryption

hostname R4

no ip cef

ipv6 unicast-routing

no ipv6 cef

spanning-tree mode pvst

interface GigabitEthernet0/0/0

ip address 40.0.0.1 255.255.255.0

duplex auto

speed auto

ipv6 address FE80::2 link-local

ipv6 address 2001:4::1/64

ipv6 ospf 1 area 1

interface GigabitEthernet0/0/1

no ip address

duplex auto

speed auto

shutdown

interface Serial0/1/0

ip address 80.0.0.2 255.255.255.0

ipv6 address FE80::2 link-local

ipv6 address 2001:8::2/64

ipv6 ospf 1 area 1

interface Serial0/1/1

ip address 90.0.0.1 255.255.255.0

ipv6 address FE80::2 link-local

ipv6 address 2001:9::1/64

ipv6 ospf 1 area 1

clock rate 2000000

interface Vlan1

no ip address

shutdown

router ospf 1

router-id 4.4.4.4

log-adjacency-changes

network 40.0.0.0 0.0.0.255 area 1

network 80.0.0.0 0.0.0.255 area 1

network 90.0.0.0 0.0.0.255 area 1

ipv6 router ospf 1

router-id 4.4.4.4

log-adjacency-changes

ip classless

ip flow-export version 9

line con 0

line aux 0

line vty 0 4

login

end

Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP

D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area

N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2

E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP

i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area

\* - candidate default, U - per-user static route, o - ODR

P - periodic downloaded static route

Gateway of last resort is not set

10.0.0.0/24 is subnetted, 1 subnets

O IA 10.0.0.0/24 [110/193] via 80.0.0.1, 08:32:23, Serial0/1/0

20.0.0.0/24 is subnetted, 1 subnets

O IA 20.0.0.0/24 [110/129] via 80.0.0.1, 08:32:23, Serial0/1/0

30.0.0.0/24 is subnetted, 1 subnets

O IA 30.0.0.0/24 [110/65] via 80.0.0.1, 08:32:23, Serial0/1/0

40.0.0.0/8 is variably subnetted, 2 subnets, 2 masks

C 40.0.0.0/24 is directly connected, GigabitEthernet0/0/0

L 40.0.0.1/32 is directly connected, GigabitEthernet0/0/0

50.0.0.0/24 is subnetted, 1 subnets

O 50.0.0.0/24 [110/65] via 90.0.0.2, 08:32:23, Serial0/1/1

60.0.0.0/24 is subnetted, 1 subnets

O IA 60.0.0.0/24 [110/192] via 80.0.0.1, 08:32:23, Serial0/1/0

70.0.0.0/24 is subnetted, 1 subnets

O IA 70.0.0.0/24 [110/128] via 80.0.0.1, 08:32:23, Serial0/1/0

80.0.0.0/8 is variably subnetted, 2 subnets, 2 masks

C 80.0.0.0/24 is directly connected, Serial0/1/0

L 80.0.0.2/32 is directly connected, Serial0/1/0

90.0.0.0/8 is variably subnetted, 2 subnets, 2 masks

C 90.0.0.0/24 is directly connected, Serial0/1/1

L 90.0.0.1/32 is directly connected, Serial0/1/1

IPv6 Routing Table - 13 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

OI 2001:1::/64 [110/193]

via FE80::2, Serial0/1/0

OI 2001:2::/64 [110/129]

via FE80::2, Serial0/1/0

OI 2001:3::/64 [110/65]

via FE80::2, Serial0/1/0

C 2001:4::/64 [0/0]

via GigabitEthernet0/0/0, directly connected

L 2001:4::1/128 [0/0]

via GigabitEthernet0/0/0, receive

O 2001:5::/64 [110/65]

via FE80::2, Serial0/1/1

OI 2001:6::/64 [110/192]

via FE80::2, Serial0/1/0

OI 2001:7::/64 [110/128]

via FE80::2, Serial0/1/0

C 2001:8::/64 [0/0]

via Serial0/1/0, directly connected

L 2001:8::2/128 [0/0]

via Serial0/1/0, receive

C 2001:9::/64 [0/0]

via Serial0/1/1, directly connected

L 2001:9::1/128 [0/0]

via Serial0/1/1, receive

L FF00::/8 [0/0]

via Null0, receive

Neighbor ID Pri State Dead Time Address Interface

3.3.3.3 0 FULL/ - 00:00:36 80.0.0.1 Serial0/1/0

5.5.5.5 0 FULL/ - 00:00:36 90.0.0.2 Serial0/1/1

Neighbor ID Pri State Dead Time Interface ID Interface

3.3.3.3 0 FULL/ - 00:00:39 4 Serial0/1/0

5.5.5.5 0 FULL/ - 00:00:38 3 Serial0/1/1

GigabitEthernet0/0/0 is up, line protocol is up

Internet address is 40.0.0.1/24, Area 1

Process ID 1, Router ID 4.4.4.4, Network Type BROADCAST, Cost: 1

Transmit Delay is 1 sec, State DR, Priority 1

Designated Router (ID) 4.4.4.4, Interface address 40.0.0.1

No backup designated router on this network

Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5

Hello due in 00:00:03

Index 1/1, flood queue length 0

Next 0x0(0)/0x0(0)

Last flood scan length is 1, maximum is 1

Last flood scan time is 0 msec, maximum is 0 msec

Neighbor Count is 0, Adjacent neighbor count is 0

Suppress hello for 0 neighbor(s)

Serial0/1/1 is up, line protocol is up

Internet address is 90.0.0.1/24, Area 1

Process ID 1, Router ID 4.4.4.4, Network Type POINT-TO-POINT, Cost: 64

Transmit Delay is 1 sec, State POINT-TO-POINT,

Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5

Hello due in 00:00:04

Index 2/2, flood queue length 0

Next 0x0(0)/0x0(0)

Last flood scan length is 1, maximum is 1

Last flood scan time is 0 msec, maximum is 0 msec

Neighbor Count is 1 , Adjacent neighbor count is 1

Adjacent with neighbor 5.5.5.5

Suppress hello for 0 neighbor(s)

Serial0/1/0 is up, line protocol is up

Internet address is 80.0.0.2/24, Area 1

Process ID 1, Router ID 4.4.4.4, Network Type POINT-TO-POINT, Cost: 64

Transmit Delay is 1 sec, State POINT-TO-POINT,

Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5

Hello due in 00:00:01

Index 3/3, flood queue length 0

Next 0x0(0)/0x0(0)

Last flood scan length is 1, maximum is 1

Last flood scan time is 0 msec, maximum is 0 msec

Neighbor Count is 1 , Adjacent neighbor count is 1

Adjacent with neighbor 3.3.3.3

Suppress hello for 0 neighbor(s)

GigabitEthernet0/0/0 is up, line protocol is up

Link Local Address FE80::2, Interface ID 1

Area 1, Process ID 1, Instance ID 0, Router ID 4.4.4.4

Network Type BROADCAST, Cost: 1

Transmit Delay is 1 sec, State DR, Priority 1

Designated Router (ID) 4.4.4.4, local address FE80::2

No backup designated router on this network

Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5

Hello due in 00:00:02

Index 1/1, flood queue length 0

Next 0x0(0)/0x0(0)

Last flood scan length is 1, maximum is 1

Last flood scan time is 0 msec, maximum is 0 msec

Neighbor Count is 0, Adjacent neighbor count is 0

Suppress hello for 0 neighbor(s)

Serial0/1/1 is up, line protocol is up

Link Local Address FE80::2, Interface ID 4

Area 1, Process ID 1, Instance ID 0, Router ID 4.4.4.4

Network Type POINT-TO-POINT, Cost: 64

Transmit Delay is 1 sec, State POINT-TO-POINT,

Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5

Hello due in 00:00:00

Index 2/2, flood queue length 0

Next 0x0(0)/0x0(0)

Last flood scan length is 1, maximum is 1

Last flood scan time is 0 msec, maximum is 0 msec

Neighbor Count is 1 , Adjacent neighbor count is 1

Adjacent with neighbor 5.5.5.5

Suppress hello for 0 neighbor(s)

Serial0/1/0 is up, line protocol is up

Link Local Address FE80::2, Interface ID 3

Area 1, Process ID 1, Instance ID 0, Router ID 4.4.4.4

Network Type POINT-TO-POINT, Cost: 64

Transmit Delay is 1 sec, State POINT-TO-POINT,

Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5

Hello due in 00:00:00

Index 3/3, flood queue length 0

Next 0x0(0)/0x0(0)

Last flood scan length is 1, maximum is 1

Last flood scan time is 0 msec, maximum is 0 msec

Neighbor Count is 1 , Adjacent neighbor count is 1

Adjacent with neighbor 3.3.3.3

Suppress hello for 0 neighbor(s)

Router 5:

Building configuration...

Current configuration : 1074 bytes

version 15.4

no service timestamps log datetime msec

no service timestamps debug datetime msec

no service password-encryption

hostname R5

no ip cef

ipv6 unicast-routing

no ipv6 cef

spanning-tree mode pvst

interface GigabitEthernet0/0/0

ip address 50.0.0.1 255.255.255.0

duplex auto

speed auto

ipv6 address FE80::2 link-local

ipv6 address 2001:5::1/64

ipv6 ospf 1 area 1

interface GigabitEthernet0/0/1

no ip address

duplex auto

speed auto

shutdown

interface Serial0/1/0

ip address 90.0.0.2 255.255.255.0

ipv6 address FE80::2 link-local

ipv6 address 2001:9::2/64

ipv6 ospf 1 area 1

interface Serial0/1/1

no ip address

clock rate 2000000

shutdown

interface Vlan1

no ip address

shutdown

router ospf 1

router-id 5.5.5.5

log-adjacency-changes

network 50.0.0.0 0.0.0.255 area 1

network 90.0.0.0 0.0.0.255 area 1

ipv6 router ospf 1

router-id 5.5.5.5

log-adjacency-changes

ip classless

ip flow-export version 9

line con 0

line aux 0

line vty 0 4

login

end

Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP

D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area

N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2

E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP

i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area

\* - candidate default, U - per-user static route, o - ODR

P - periodic downloaded static route

Gateway of last resort is not set

10.0.0.0/24 is subnetted, 1 subnets

O IA 10.0.0.0/24 [110/257] via 90.0.0.1, 08:36:58, Serial0/1/0

20.0.0.0/24 is subnetted, 1 subnets

O IA 20.0.0.0/24 [110/193] via 90.0.0.1, 08:36:58, Serial0/1/0

30.0.0.0/24 is subnetted, 1 subnets

O IA 30.0.0.0/24 [110/129] via 90.0.0.1, 08:36:58, Serial0/1/0

40.0.0.0/24 is subnetted, 1 subnets

O 40.0.0.0/24 [110/65] via 90.0.0.1, 08:36:58, Serial0/1/0

50.0.0.0/8 is variably subnetted, 2 subnets, 2 masks

C 50.0.0.0/24 is directly connected, GigabitEthernet0/0/0

L 50.0.0.1/32 is directly connected, GigabitEthernet0/0/0

60.0.0.0/24 is subnetted, 1 subnets

O IA 60.0.0.0/24 [110/256] via 90.0.0.1, 08:36:58, Serial0/1/0

70.0.0.0/24 is subnetted, 1 subnets

O IA 70.0.0.0/24 [110/192] via 90.0.0.1, 08:36:58, Serial0/1/0

80.0.0.0/24 is subnetted, 1 subnets

O 80.0.0.0/24 [110/128] via 90.0.0.1, 08:36:58, Serial0/1/0

90.0.0.0/8 is variably subnetted, 2 subnets, 2 masks

C 90.0.0.0/24 is directly connected, Serial0/1/0

L 90.0.0.2/32 is directly connected, Serial0/1/0

IPv6 Routing Table - 12 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

OI 2001:1::/64 [110/257]

via FE80::2, Serial0/1/0

OI 2001:2::/64 [110/193]

via FE80::2, Serial0/1/0

OI 2001:3::/64 [110/129]

via FE80::2, Serial0/1/0

O 2001:4::/64 [110/65]

via FE80::2, Serial0/1/0

C 2001:5::/64 [0/0]

via GigabitEthernet0/0/0, directly connected

L 2001:5::1/128 [0/0]

via GigabitEthernet0/0/0, receive

OI 2001:6::/64 [110/256]

via FE80::2, Serial0/1/0

OI 2001:7::/64 [110/192]

via FE80::2, Serial0/1/0

O 2001:8::/64 [110/128]

via FE80::2, Serial0/1/0

C 2001:9::/64 [0/0]

via Serial0/1/0, directly connected

L 2001:9::2/128 [0/0]

via Serial0/1/0, receive

L FF00::/8 [0/0]

via Null0, receive

Neighbor ID Pri State Dead Time Interface ID Interface

4.4.4.4 0 FULL/ - 00:00:35 4 Serial0/1/0

Neighbor ID Pri State Dead Time Interface ID Interface

4.4.4.4 0 FULL/ - 00:00:35 4 Serial0/1/0

R5#sh ip ospf int

R5#sh ip ospf interface

GigabitEthernet0/0/0 is up, line protocol is up

Internet address is 50.0.0.1/24, Area 1

Process ID 1, Router ID 5.5.5.5, Network Type BROADCAST, Cost: 1

Transmit Delay is 1 sec, State DR, Priority 1

Designated Router (ID) 5.5.5.5, Interface address 50.0.0.1

No backup designated router on this network

Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5

Hello due in 00:00:01

Index 1/1, flood queue length 0

Next 0x0(0)/0x0(0)

Last flood scan length is 1, maximum is 1

Last flood scan time is 0 msec, maximum is 0 msec

Neighbor Count is 0, Adjacent neighbor count is 0

Suppress hello for 0 neighbor(s)

Serial0/1/0 is up, line protocol is up

Internet address is 90.0.0.2/24, Area 1

Process ID 1, Router ID 5.5.5.5, Network Type POINT-TO-POINT, Cost: 64

Transmit Delay is 1 sec, State POINT-TO-POINT,

Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5

Hello due in 00:00:00

Index 2/2, flood queue length 0

Next 0x0(0)/0x0(0)

Last flood scan length is 1, maximum is 1

Last flood scan time is 0 msec, maximum is 0 msec

Neighbor Count is 1 , Adjacent neighbor count is 1

Adjacent with neighbor 4.4.4.4

Suppress hello for 0 neighbor(s)

GigabitEthernet0/0/0 is up, line protocol is up

Link Local Address FE80::2, Interface ID 1

Area 1, Process ID 1, Instance ID 0, Router ID 5.5.5.5

Network Type BROADCAST, Cost: 1

Transmit Delay is 1 sec, State DR, Priority 1

Designated Router (ID) 5.5.5.5, local address FE80::2

No backup designated router on this network

Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5

Hello due in 00:00:07

Index 1/1, flood queue length 0

Next 0x0(0)/0x0(0)

Last flood scan length is 1, maximum is 1

Last flood scan time is 0 msec, maximum is 0 msec

Neighbor Count is 0, Adjacent neighbor count is 0

Suppress hello for 0 neighbor(s)

Serial0/1/0 is up, line protocol is up

Link Local Address FE80::2, Interface ID 3

Area 1, Process ID 1, Instance ID 0, Router ID 5.5.5.5

Network Type POINT-TO-POINT, Cost: 64

Transmit Delay is 1 sec, State POINT-TO-POINT,

Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5

Hello due in 00:00:06

Index 2/2, flood queue length 0

Next 0x0(0)/0x0(0)

Last flood scan length is 1, maximum is 1

Last flood scan time is 0 msec, maximum is 0 msec

Neighbor Count is 1 , Adjacent neighbor count is 1

Adjacent with neighbor 4.4.4.4

Suppress hello for 0 neighbor(s)

Pings

**PC1:**

Pinging 20.0.0.2 with 32 bytes of data:

Request timed out.

Reply from 20.0.0.2: bytes=32 time=10ms TTL=126

Reply from 20.0.0.2: bytes=32 time=1ms TTL=126

Reply from 20.0.0.2: bytes=32 time=2ms TTL=126

Ping statistics for 20.0.0.2:

Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),

Approximate round trip times in milli-seconds:

Minimum = 1ms, Maximum = 10ms, Average = 4ms

Pinging 30.0.0.2 with 32 bytes of data:

Request timed out.

Reply from 30.0.0.2: bytes=32 time=6ms TTL=125

Reply from 30.0.0.2: bytes=32 time=2ms TTL=125

Reply from 30.0.0.2: bytes=32 time=2ms TTL=125

Ping statistics for 30.0.0.2:

Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),

Approximate round trip times in milli-seconds:

Minimum = 2ms, Maximum = 6ms, Average = 3ms

Pinging 40.0.0.2 with 32 bytes of data:

Request timed out.

Reply from 40.0.0.2: bytes=32 time=4ms TTL=124

Reply from 40.0.0.2: bytes=32 time=3ms TTL=124

Reply from 40.0.0.2: bytes=32 time=3ms TTL=124

Ping statistics for 40.0.0.2:

Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),

Approximate round trip times in milli-seconds:

Minimum = 3ms, Maximum = 4ms, Average = 3ms

Pinging 50.0.0.2 with 32 bytes of data:

Request timed out.

Reply from 50.0.0.2: bytes=32 time=11ms TTL=123

Reply from 50.0.0.2: bytes=32 time=10ms TTL=123

Reply from 50.0.0.2: bytes=32 time=4ms TTL=123

Ping statistics for 50.0.0.2:

Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),

Approximate round trip times in milli-seconds:

Minimum = 4ms, Maximum = 11ms, Average = 8ms

Pinging 2001:2::2 with 32 bytes of data:

Reply from 2001:2::2: bytes=32 time=1ms TTL=126

Reply from 2001:2::2: bytes=32 time=1ms TTL=126

Reply from 2001:2::2: bytes=32 time=1ms TTL=126

Reply from 2001:2::2: bytes=32 time=1ms TTL=126

Ping statistics for 2001:2::2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 1ms, Maximum = 1ms, Average = 1ms

Pinging 2001:3::2 with 32 bytes of data:

Reply from 2001:3::2: bytes=32 time=11ms TTL=125

Reply from 2001:3::2: bytes=32 time=11ms TTL=125

Reply from 2001:3::2: bytes=32 time=2ms TTL=125

Reply from 2001:3::2: bytes=32 time=7ms TTL=125

Ping statistics for 2001:3::2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 2ms, Maximum = 11ms, Average = 7ms

Pinging 2001:4::2 with 32 bytes of data:

Reply from 2001:4::2: bytes=32 time=519ms TTL=124

Reply from 2001:4::2: bytes=32 time=18ms TTL=124

Reply from 2001:4::2: bytes=32 time=26ms TTL=124

Reply from 2001:4::2: bytes=32 time=3ms TTL=124

Ping statistics for 2001:4::2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 3ms, Maximum = 519ms, Average = 141ms

Pinging 2001:5::2 with 32 bytes of data:

Reply from 2001:5::2: bytes=32 time=16ms TTL=123

Reply from 2001:5::2: bytes=32 time=44ms TTL=123

Reply from 2001:5::2: bytes=32 time=43ms TTL=123

Reply from 2001:5::2: bytes=32 time=46ms TTL=123

Ping statistics for 2001:5::2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 16ms, Maximum = 46ms, Average = 37ms

**PC2:**

Pinging 10.0.0.2 with 32 bytes of data:

Reply from 10.0.0.2: bytes=32 time=17ms TTL=126

Reply from 10.0.0.2: bytes=32 time=5ms TTL=126

Reply from 10.0.0.2: bytes=32 time=2ms TTL=126

Reply from 10.0.0.2: bytes=32 time=3ms TTL=126

Ping statistics for 10.0.0.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 2ms, Maximum = 17ms, Average = 6ms

Pinging 30.0.0.2 with 32 bytes of data:

Reply from 30.0.0.2: bytes=32 time=8ms TTL=126

Reply from 30.0.0.2: bytes=32 time=10ms TTL=126

Reply from 30.0.0.2: bytes=32 time=182ms TTL=126

Reply from 30.0.0.2: bytes=32 time=1ms TTL=126

Ping statistics for 30.0.0.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 1ms, Maximum = 182ms, Average = 50ms

Pinging 40.0.0.2 with 32 bytes of data:

Reply from 40.0.0.2: bytes=32 time=2ms TTL=125

Reply from 40.0.0.2: bytes=32 time=2ms TTL=125

Reply from 40.0.0.2: bytes=32 time=8ms TTL=125

Reply from 40.0.0.2: bytes=32 time=2ms TTL=125

Ping statistics for 40.0.0.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 2ms, Maximum = 8ms, Average = 3ms

Pinging 50.0.0.2 with 32 bytes of data:

Reply from 50.0.0.2: bytes=32 time=14ms TTL=124

Reply from 50.0.0.2: bytes=32 time=27ms TTL=124

Reply from 50.0.0.2: bytes=32 time=8ms TTL=124

Reply from 50.0.0.2: bytes=32 time=3ms TTL=124

Ping statistics for 50.0.0.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 3ms, Maximum = 27ms, Average = 13ms

Pinging 2001:1::2 with 32 bytes of data:

Reply from 2001:1::2: bytes=32 time=10ms TTL=126

Reply from 2001:1::2: bytes=32 time=8ms TTL=126

Reply from 2001:1::2: bytes=32 time=2ms TTL=126

Reply from 2001:1::2: bytes=32 time=9ms TTL=126

Ping statistics for 2001:1::2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 2ms, Maximum = 10ms, Average = 7ms

Pinging 2001:3::2 with 32 bytes of data:

Reply from 2001:3::2: bytes=32 time=1ms TTL=126

Reply from 2001:3::2: bytes=32 time=1ms TTL=126

Reply from 2001:3::2: bytes=32 time=1ms TTL=126

Reply from 2001:3::2: bytes=32 time=1ms TTL=126

Ping statistics for 2001:3::2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 1ms, Maximum = 1ms, Average = 1ms

Pinging 2001:4::2 with 32 bytes of data:

Reply from 2001:4::2: bytes=32 time=18ms TTL=125

Reply from 2001:4::2: bytes=32 time=2ms TTL=125

Reply from 2001:4::2: bytes=32 time=10ms TTL=125

Reply from 2001:4::2: bytes=32 time=2ms TTL=125

Ping statistics for 2001:4::2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 2ms, Maximum = 18ms, Average = 8ms

Pinging 2001:5::2 with 32 bytes of data:

Reply from 2001:5::2: bytes=32 time=3ms TTL=124

Reply from 2001:5::2: bytes=32 time=30ms TTL=124

Reply from 2001:5::2: bytes=32 time=26ms TTL=124

Reply from 2001:5::2: bytes=32 time=11ms TTL=124

Ping statistics for 2001:5::2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 3ms, Maximum = 30ms, Average = 17ms

**PC3:**

Pinging 10.0.0.2 with 32 bytes of data:

Reply from 10.0.0.2: bytes=32 time=3ms TTL=125

Reply from 10.0.0.2: bytes=32 time=2ms TTL=125

Reply from 10.0.0.2: bytes=32 time=9ms TTL=125

Reply from 10.0.0.2: bytes=32 time=2ms TTL=125

Ping statistics for 10.0.0.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 2ms, Maximum = 9ms, Average = 4ms

Pinging 20.0.0.2 with 32 bytes of data:

Reply from 20.0.0.2: bytes=32 time=14ms TTL=126

Reply from 20.0.0.2: bytes=32 time=15ms TTL=126

Reply from 20.0.0.2: bytes=32 time=1ms TTL=126

Reply from 20.0.0.2: bytes=32 time=1ms TTL=126

Ping statistics for 20.0.0.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 1ms, Maximum = 15ms, Average = 7ms

Pinging 40.0.0.2 with 32 bytes of data:

Reply from 40.0.0.2: bytes=32 time=1ms TTL=126

Reply from 40.0.0.2: bytes=32 time=11ms TTL=126

Reply from 40.0.0.2: bytes=32 time=1ms TTL=126

Reply from 40.0.0.2: bytes=32 time=1ms TTL=126

Ping statistics for 40.0.0.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 1ms, Maximum = 11ms, Average = 3ms

Pinging 50.0.0.2 with 32 bytes of data:

Reply from 50.0.0.2: bytes=32 time=10ms TTL=125

Reply from 50.0.0.2: bytes=32 time=7ms TTL=125

Reply from 50.0.0.2: bytes=32 time=13ms TTL=125

Reply from 50.0.0.2: bytes=32 time=11ms TTL=125

Ping statistics for 50.0.0.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 7ms, Maximum = 13ms, Average = 10ms

Pinging 2001:1::2 with 32 bytes of data:

Reply from 2001:1::2: bytes=32 time=32ms TTL=125

Reply from 2001:1::2: bytes=32 time=6ms TTL=125

Reply from 2001:1::2: bytes=32 time=2ms TTL=125

Reply from 2001:1::2: bytes=32 time=2ms TTL=125

Ping statistics for 2001:1::2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 2ms, Maximum = 32ms, Average = 10ms

Pinging 2001:2::2 with 32 bytes of data:

Reply from 2001:2::2: bytes=32 time=10ms TTL=126

Reply from 2001:2::2: bytes=32 time=1ms TTL=126

Reply from 2001:2::2: bytes=32 time=1ms TTL=126

Reply from 2001:2::2: bytes=32 time=1ms TTL=126

Ping statistics for 2001:2::2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 1ms, Maximum = 10ms, Average = 3ms

Pinging 2001:4::2 with 32 bytes of data:

Reply from 2001:4::2: bytes=32 time=10ms TTL=126

Reply from 2001:4::2: bytes=32 time=22ms TTL=126

Reply from 2001:4::2: bytes=32 time=8ms TTL=126

Reply from 2001:4::2: bytes=32 time=6ms TTL=126

Ping statistics for 2001:4::2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 6ms, Maximum = 22ms, Average = 11ms

Pinging 2001:5::2 with 32 bytes of data:

Reply from 2001:5::2: bytes=32 time=12ms TTL=125

Reply from 2001:5::2: bytes=32 time=7ms TTL=125

Reply from 2001:5::2: bytes=32 time=2ms TTL=125

Reply from 2001:5::2: bytes=32 time=14ms TTL=125

Ping statistics for 2001:5::2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 2ms, Maximum = 14ms, Average = 8ms

**PC4:**

Pinging 10.0.0.2 with 32 bytes of data:

Reply from 10.0.0.2: bytes=32 time=4ms TTL=124

Reply from 10.0.0.2: bytes=32 time=3ms TTL=124

Reply from 10.0.0.2: bytes=32 time=3ms TTL=124

Reply from 10.0.0.2: bytes=32 time=16ms TTL=124

Ping statistics for 10.0.0.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 3ms, Maximum = 16ms, Average = 6ms

Pinging 20.0.0.2 with 32 bytes of data:

Reply from 20.0.0.2: bytes=32 time=14ms TTL=125

Reply from 20.0.0.2: bytes=32 time=2ms TTL=125

Reply from 20.0.0.2: bytes=32 time=2ms TTL=125

Reply from 20.0.0.2: bytes=32 time=19ms TTL=125

Ping statistics for 20.0.0.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 2ms, Maximum = 19ms, Average = 9ms

Pinging 30.0.0.2 with 32 bytes of data:

Reply from 30.0.0.2: bytes=32 time=5ms TTL=126

Reply from 30.0.0.2: bytes=32 time=6ms TTL=126

Reply from 30.0.0.2: bytes=32 time=10ms TTL=126

Reply from 30.0.0.2: bytes=32 time=1ms TTL=126

Ping statistics for 30.0.0.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 1ms, Maximum = 10ms, Average = 5ms

Pinging 50.0.0.2 with 32 bytes of data:

Reply from 50.0.0.2: bytes=32 time=1ms TTL=126

Reply from 50.0.0.2: bytes=32 time=11ms TTL=126

Reply from 50.0.0.2: bytes=32 time=1ms TTL=126

Reply from 50.0.0.2: bytes=32 time=6ms TTL=126

Ping statistics for 50.0.0.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 1ms, Maximum = 11ms, Average = 4ms

Pinging 2001:1::2 with 32 bytes of data:

Reply from 2001:1::2: bytes=32 time=3ms TTL=124

Reply from 2001:1::2: bytes=32 time=3ms TTL=124

Reply from 2001:1::2: bytes=32 time=3ms TTL=124

Reply from 2001:1::2: bytes=32 time=15ms TTL=124

Ping statistics for 2001:1::2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 3ms, Maximum = 15ms, Average = 6ms

Pinging 2001:2::2 with 32 bytes of data:

Reply from 2001:2::2: bytes=32 time=12ms TTL=125

Reply from 2001:2::2: bytes=32 time=2ms TTL=125

Reply from 2001:2::2: bytes=32 time=2ms TTL=125

Reply from 2001:2::2: bytes=32 time=21ms TTL=125

Ping statistics for 2001:2::2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 2ms, Maximum = 21ms, Average = 9ms

Pinging 2001:3::2 with 32 bytes of data:

Reply from 2001:3::2: bytes=32 time=10ms TTL=126

Reply from 2001:3::2: bytes=32 time=11ms TTL=126

Reply from 2001:3::2: bytes=32 time=1ms TTL=126

Reply from 2001:3::2: bytes=32 time=7ms TTL=126

Ping statistics for 2001:3::2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 1ms, Maximum = 11ms, Average = 7ms

Pinging 2001:5::2 with 32 bytes of data:

Reply from 2001:5::2: bytes=32 time=9ms TTL=126

Reply from 2001:5::2: bytes=32 time=1ms TTL=126

Reply from 2001:5::2: bytes=32 time=1ms TTL=126

Reply from 2001:5::2: bytes=32 time=6ms TTL=126

Ping statistics for 2001:5::2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 1ms, Maximum = 9ms, Average = 4ms

**PC5:**

Pinging 10.0.0.2 with 32 bytes of data:

Reply from 10.0.0.2: bytes=32 time=19ms TTL=123

Reply from 10.0.0.2: bytes=32 time=4ms TTL=123

Reply from 10.0.0.2: bytes=32 time=12ms TTL=123

Reply from 10.0.0.2: bytes=32 time=6ms TTL=123

Ping statistics for 10.0.0.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 4ms, Maximum = 19ms, Average = 10ms

Pinging 20.0.0.2 with 32 bytes of data:

Reply from 20.0.0.2: bytes=32 time=3ms TTL=124

Reply from 20.0.0.2: bytes=32 time=16ms TTL=124

Reply from 20.0.0.2: bytes=32 time=3ms TTL=124

Reply from 20.0.0.2: bytes=32 time=21ms TTL=124

Ping statistics for 20.0.0.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 3ms, Maximum = 21ms, Average = 10ms

Pinging 30.0.0.2 with 32 bytes of data:

Reply from 30.0.0.2: bytes=32 time=14ms TTL=125

Reply from 30.0.0.2: bytes=32 time=15ms TTL=125

Reply from 30.0.0.2: bytes=32 time=12ms TTL=125

Reply from 30.0.0.2: bytes=32 time=11ms TTL=125

Ping statistics for 30.0.0.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 11ms, Maximum = 15ms, Average = 13ms

Pinging 40.0.0.2 with 32 bytes of data:

Reply from 40.0.0.2: bytes=32 time=11ms TTL=126

Reply from 40.0.0.2: bytes=32 time=10ms TTL=126

Reply from 40.0.0.2: bytes=32 time=5ms TTL=126

Reply from 40.0.0.2: bytes=32 time=10ms TTL=126

Ping statistics for 40.0.0.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 5ms, Maximum = 11ms, Average = 9ms

Pinging 2001:1::2 with 32 bytes of data:

Reply from 2001:1::2: bytes=32 time=6ms TTL=123

Reply from 2001:1::2: bytes=32 time=14ms TTL=123

Reply from 2001:1::2: bytes=32 time=24ms TTL=123

Reply from 2001:1::2: bytes=32 time=32ms TTL=123

Ping statistics for 2001:1::2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 6ms, Maximum = 32ms, Average = 19ms

Pinging 2001:2::2 with 32 bytes of data:

Reply from 2001:2::2: bytes=32 time=21ms TTL=124

Reply from 2001:2::2: bytes=32 time=10ms TTL=124

Reply from 2001:2::2: bytes=32 time=4ms TTL=124

Reply from 2001:2::2: bytes=32 time=12ms TTL=124

Ping statistics for 2001:2::2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 4ms, Maximum = 21ms, Average = 11ms

Pinging 2001:3::2 with 32 bytes of data:

Reply from 2001:3::2: bytes=32 time=436ms TTL=125

Reply from 2001:3::2: bytes=32 time=2ms TTL=125

Reply from 2001:3::2: bytes=32 time=7ms TTL=125

Reply from 2001:3::2: bytes=32 time=2ms TTL=125

Ping statistics for 2001:3::2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 2ms, Maximum = 436ms, Average = 111ms

Pinging 2001:4::2 with 32 bytes of data:

Reply from 2001:4::2: bytes=32 time=2ms TTL=126

Reply from 2001:4::2: bytes=32 time=2ms TTL=126

Reply from 2001:4::2: bytes=32 time=1ms TTL=126

Reply from 2001:4::2: bytes=32 time=3ms TTL=126

Ping statistics for 2001:4::2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 1ms, Maximum = 3ms, Average = 2ms

Problems

The problems were mostly when trying to set up the second area with OSPFv2 and OSPFv3. When setting up OSPFv2 there were problems while pinging between Router 1 and 2 and Router 3. I had accidentally put network 60.0.0.0 and 70.0.0.0 in area 0 while in Router 3 I put network 70.0.0.0 in area 1. This allowed me to ping from PC1 to PC2 but couldn’t get pings to Router 3. When I did the command “Show ip ospf interface on Router 1, 2 and 3 I realized that in Router 3, network 70.0.0.0 was in area 1 when it was supposed to be in area 0. The other areas were set up correctly and after I fixed this with the command “no network 70.0.0.0 0.0.0.255 area 1” and “network 70.0.0.0 0.0.0.255 area 0” I was able to get pings through Routers 1, 2 and 3. As I finished setting up Router 4 and 5 with OSPFv2 the pings were working and the pings to Router 3 also worked but when I tried pinging past Router 3, it didn’t work. I decided to use the command “show ip route” in Router 4 and saw that only the networks in area 1 were showing up and anything past Router 3 wasn’t showing up. The same thing happened with Router 5. When I checked if the other routers could ping Routers 4 and 5, they also failed. I tried putting in the network commands on Routers 2, 3 and 4 to see if that changed anything and when it didn’t I decided to try clearing the ospf processes on Router 3. When that also didn’t work I decided to reload Router 3. After I configured Router 3 again, the pings started working. There must have been a problem in not configuring the border Router last.

When configuring OSPFv3 there weren’t many problems. I tried configuring OSPFv3 the same way I configured OSPFv2 but I kept getting errors. I didn’t remember that well how to configure OSPFv3 so I decided to do some research which was when I realized that I needed to assign interfaces to OSPFv3 unlike in OSPFv2 where I tell the router what networks I want to have OSPF.`

Conclusion

After this lab, I was able to set up multi-area OSPFv2 and OSPFv3. I was able to set up multiple networks in area 0 and area 1 and in each network IPv4 and IPv6 works and pings between all the PCs are successful. Something that went well was that I didn’t have a lot of problems while setting up IPv4 on Area 0 and Area 1 since that was the basic single area OSPFv2 I had already reviewed. I had some problems setting up OSPFv2 on Router 3 since that was the third router I set up and I had problems with the OSPF processes. OSPFv3 was a lot simpler since I just needed to add the interfaces into the OSPF process which made the lab easier. I didn’t have a lot of problems with IPv6 other than the occasional misconfiguring the interfaces.