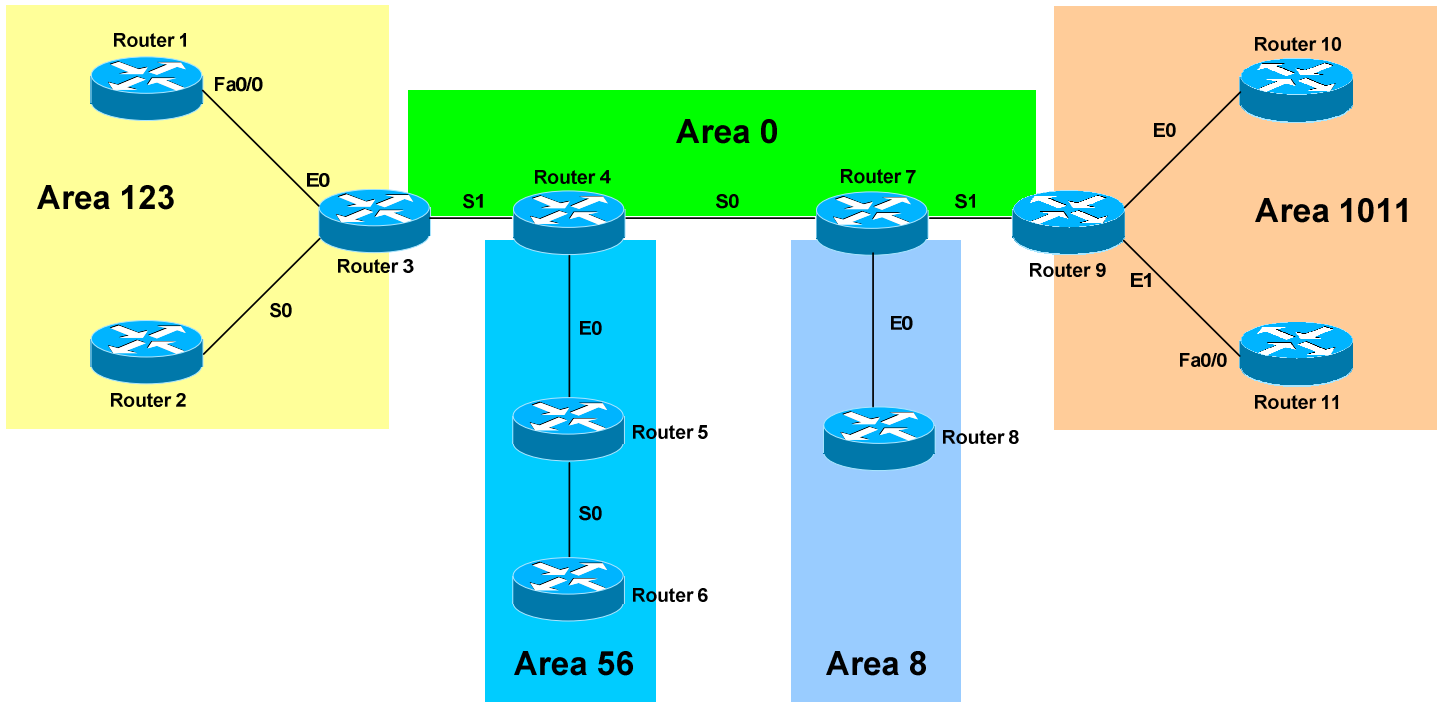


- Basic OSPF Lab -

Configuring Basic OSPF Routing - Lab



Basic Objectives:

1. Configure and cable the Serial and Ethernet interfaces as indicated in the above diagram.
2. Configure IP addresses between the routers using the following 192.168.YY.x/24 scheme:

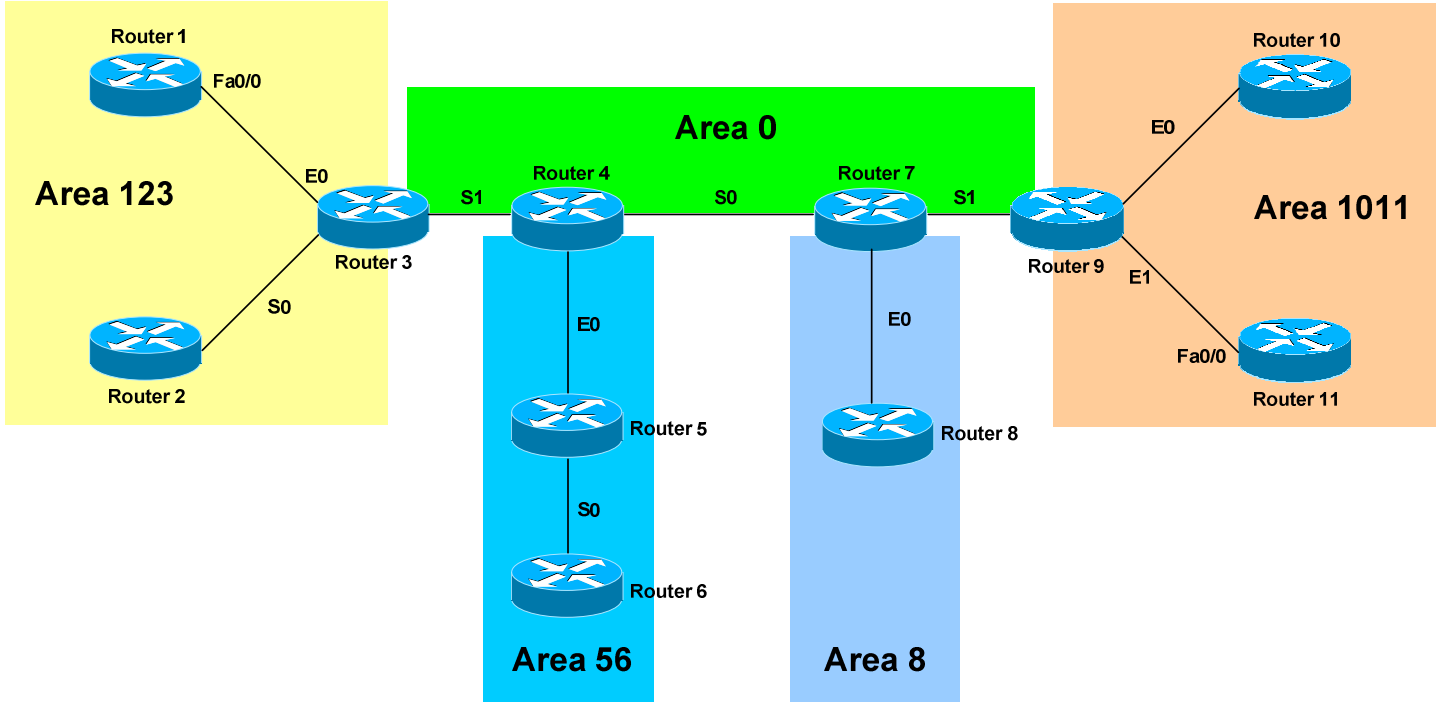
Router 1 – 3 = 192.168.13.x	Router 5 – 6 = 192.168.56.x
Router 2 – 3 = 192.168.23.x	Router 7 – 8 = 192.168.78.x
Router 3 – 4 = 192.168.34.x	Router 7 – 9 = 192.168.79.x
Router 4 – 5 = 192.168.45.x	Router 9 – 10 = 192.168.109.x
Router 4 – 7 = 192.168.47.x	Router 9 - 11 = 192.168.119.x
3. Configure a loopback interface on each router. The interface should have an address using the following scheme: Y.Y.Y.Y/24. For example, Router 4's loopback should be 4.4.4.4/24.

* * *

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Configuring Basic OSPF Routing – Lab (continued)



OSPF Objectives:

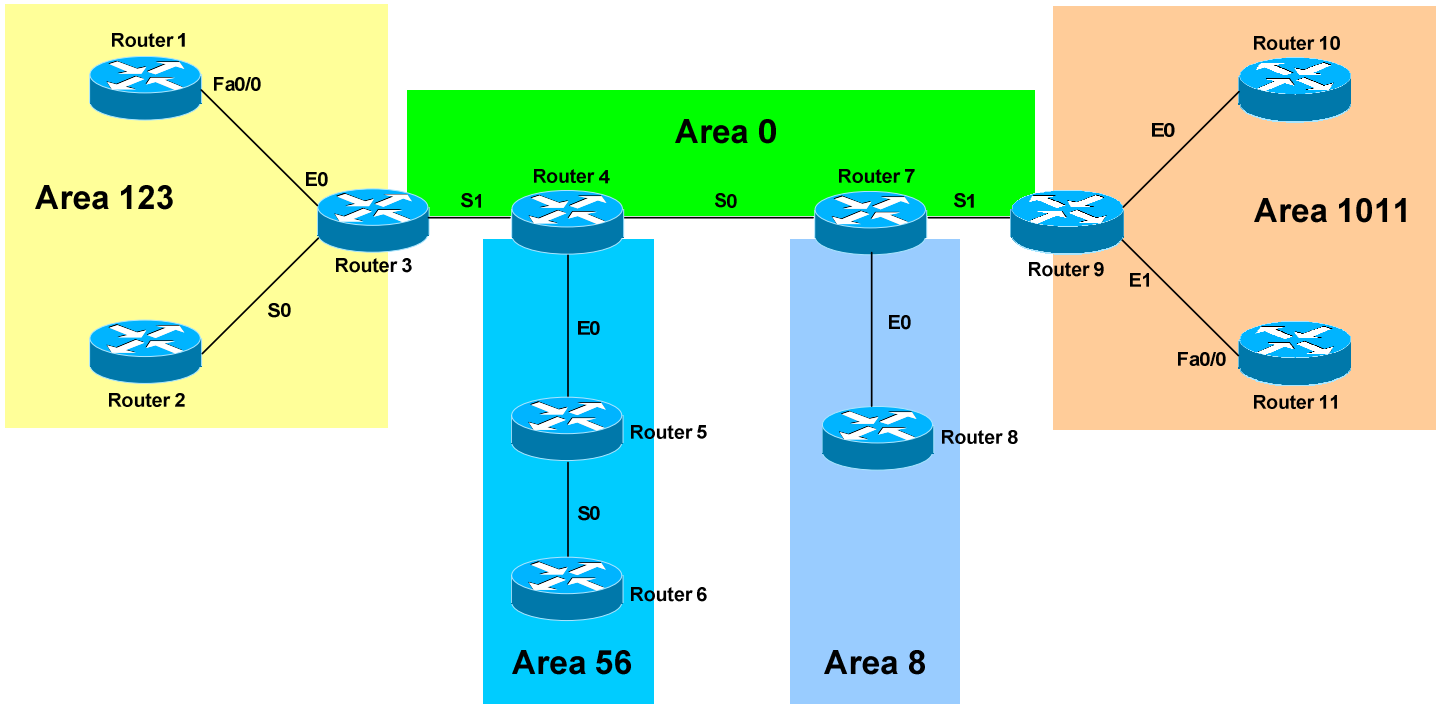
4. Configure OSPF routing on all routers. Use whatever process ID you wish.

5. Manually set the OSPF router-ID on your router to your loopback IP address.

6. Place each interface on your router into the Area specified by the diagram. Place loopback interfaces in whatever area makes the most sense.

* * *

Configuring Basic OSPF Routing – Lab (continued)



OSPF Objectives:

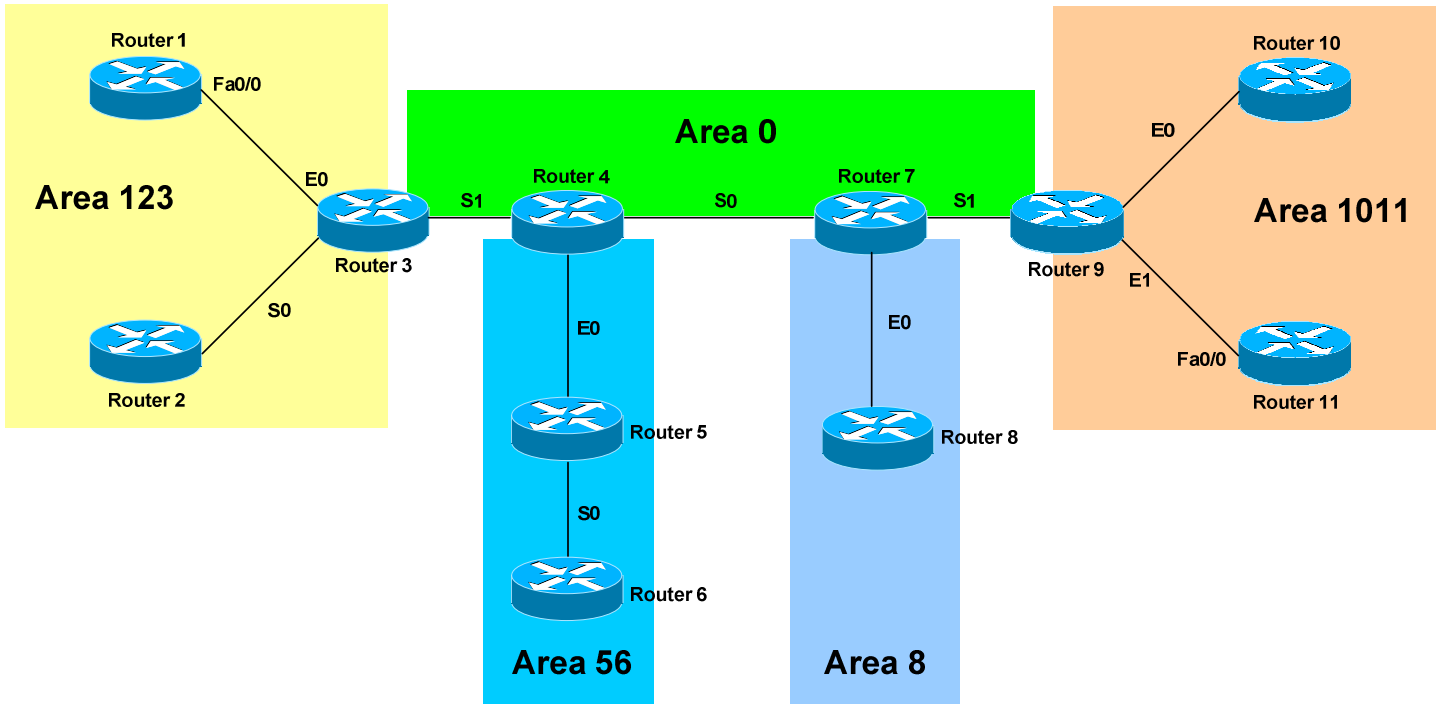
- 7. Check the routing tables on your routers. What different types of routes do you see?

- 8. Confirm that you can ping all networks in the OSPF domain.

- 9. View your neighbor table.

* * *

Configuring Basic OSPF Routing – Lab (continued)



OSPF Objectives:

10. Debug OSPF so that you can see hello packets sent between neighbors.

11. Your instructor will inject some external routes into Router 7. What additional type of route now shows up in the routing table?

* * *