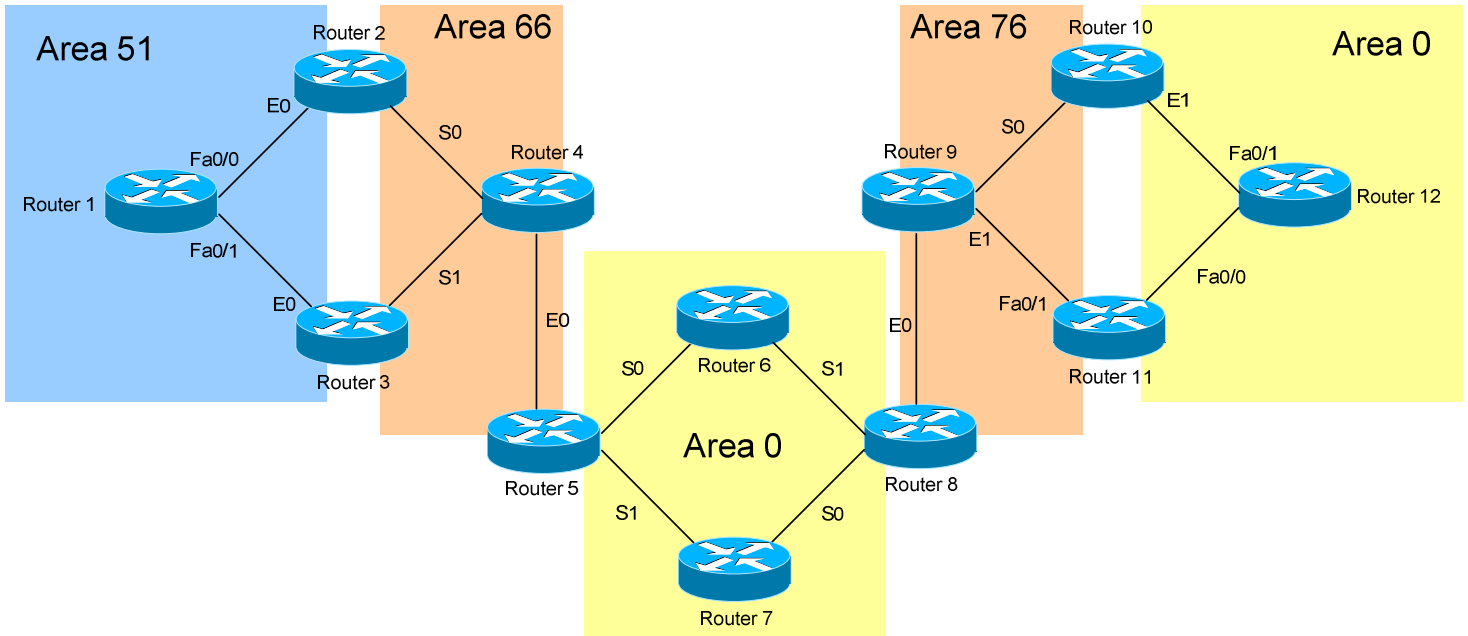


- Intermediate OSPF Lab -

Configuring OSPF Routing – Intermediate Lab



Basic Objectives:

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

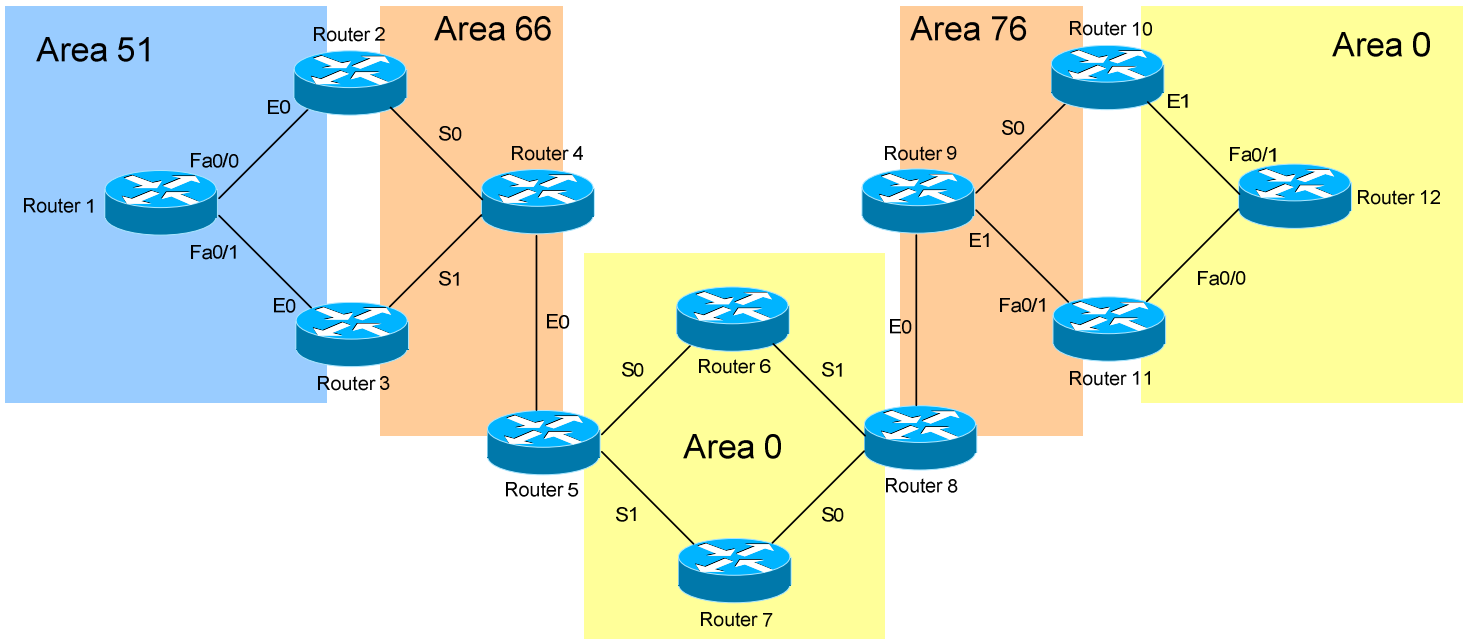
Router 1 – 2 = 192.168.12.x	Router 6 – 8 = 192.168.68.x
Router 1 – 3 = 192.168.13.x	Router 7 – 8 = 192.168.78.x
Router 2 – 4 = 192.168.24.x	Router 8 – 9 = 192.168.89.x
Router 3 – 4 = 192.168.34.x	Router 9 – 10 = 192.168.109.x
Router 4 – 5 = 192.168.45.x	Router 9 – 11 = 192.168.119.x
Router 5 – 6 = 192.168.56.x	Router 10 – 12 = 192.168.120.x
Router 5 – 7 = 192.168.57.x	Router 11 – 12 = 192.168.121.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 OSPF Routing – Intermediate Lab (continued)



OSPF Objectives:

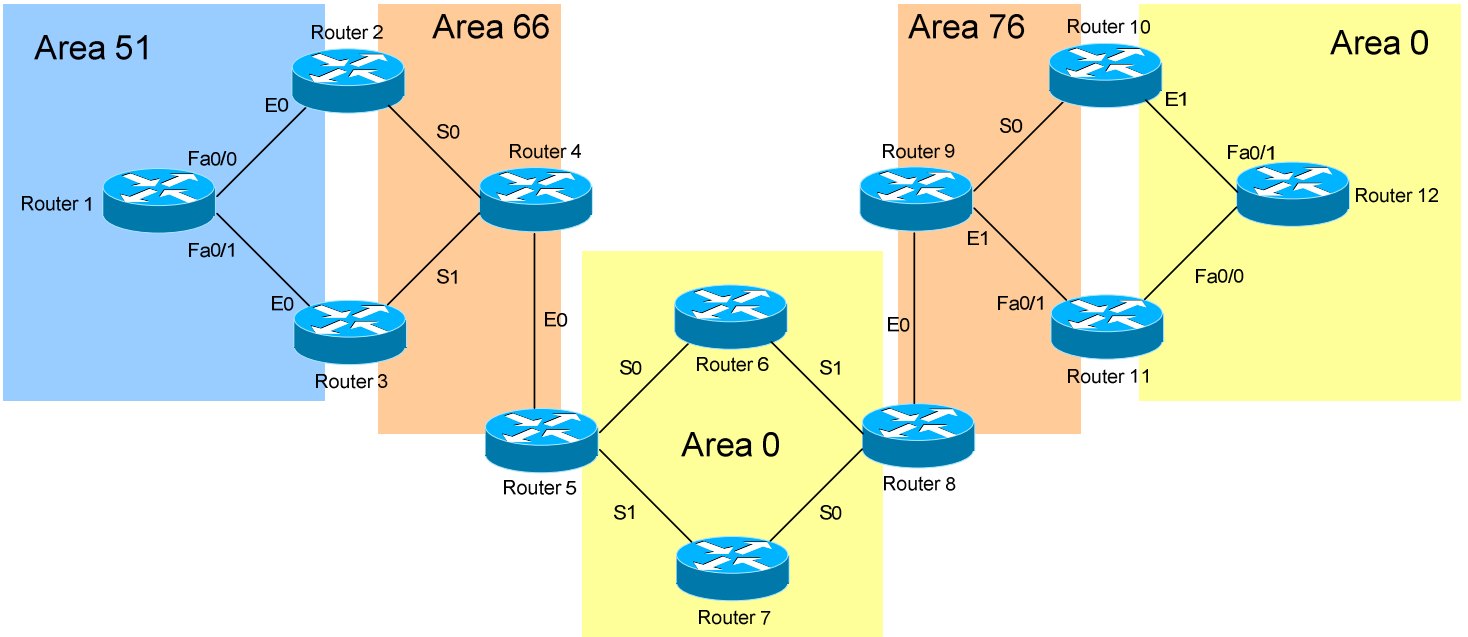
4. Configure OSPF routing on all routers. Use whatever process ID you wish.

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

6. Place each interface on your router into the Area specified by the diagram. Place loopback interfaces in an area matching your router number (for example, if you are Router 3, the loopback should be in Area 3).

* * *

Configuring OSPF Routing – Intermediate Lab



OSPF Objectives:

7. Ensure that all networks are reachable. Virtually every area must be linked together.

8. Configure OSPF md5 authentication throughout your OSPF domain. Use a key of “CISCO” between all neighbors.

9. Ensure that all networks are still reachable.

* * *