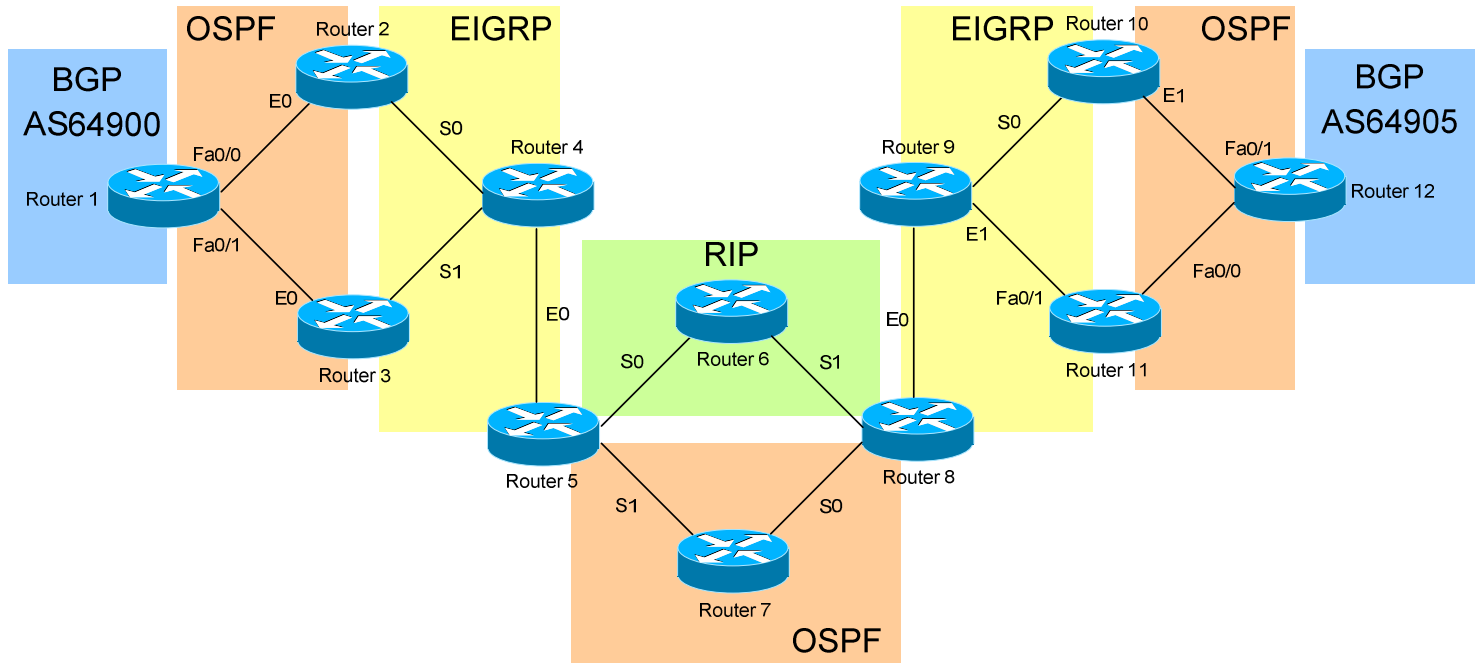


## - Redistribution Lab -

### Configuring Route Redistribution - 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:
 

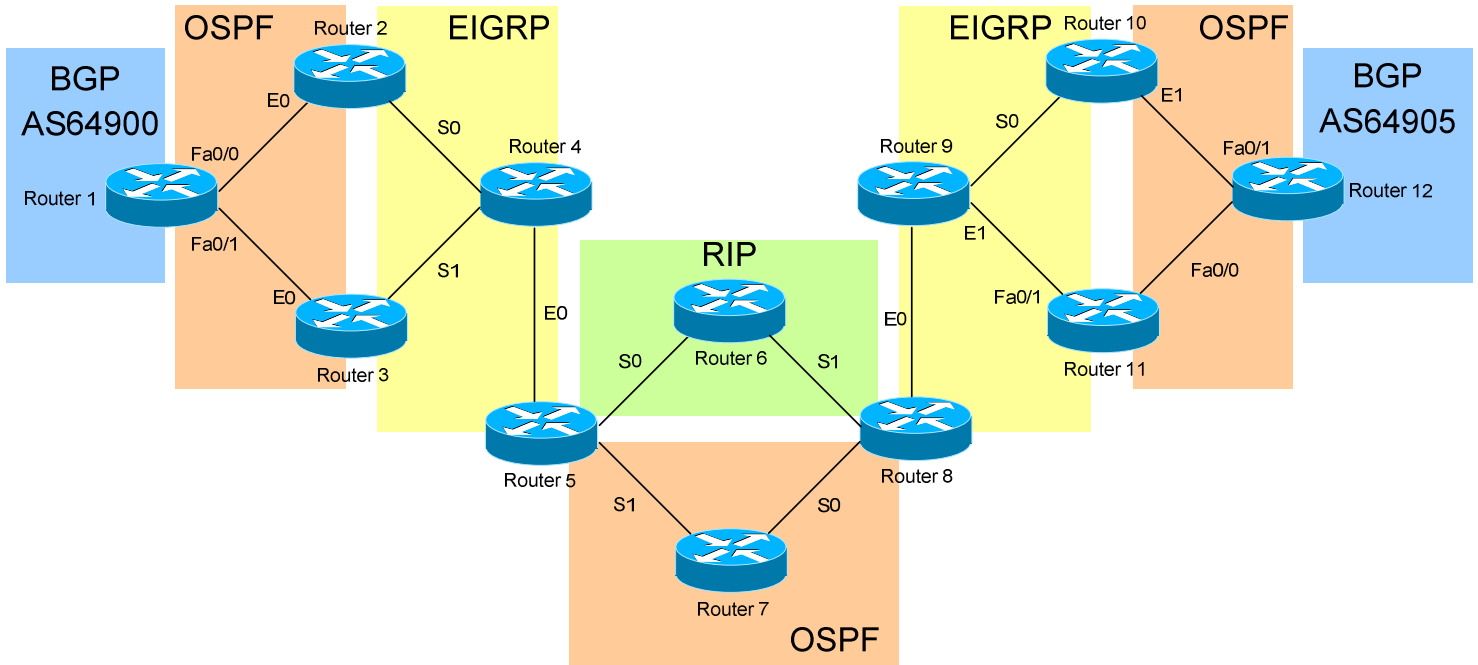
Router 1 – 2 = 192.168.12.x	Router 6 – 8 = 192.168.68.x
Router 1 – 3 = 192.168.13.x	Router 7 – 8 = 192.168.78.x
Router 2 – 4 = 192.168.24.x	Router 8 – 9 = 192.168.89.x
Router 3 – 4 = 192.168.34.x	Router 9 – 10 = 192.168.109.x
Router 4 – 5 = 192.168.45.x	Router 9 – 11 = 192.168.119.x
Router 5 – 6 = 192.168.56.x	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 Route Redistribution – Lab (continued)**



**Redistribution Objectives:**

4. Configure each IGP as diagrammed. Use AS numbers and Process IDs of your choosing. Advertise loopback networks into whichever IGP makes the most sense.

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5. IGP updates should not be forwarded out inappropriate interfaces. For example, Router 5 should neither send nor accept RIP or OSPF updates out its Ethernet0 interface.

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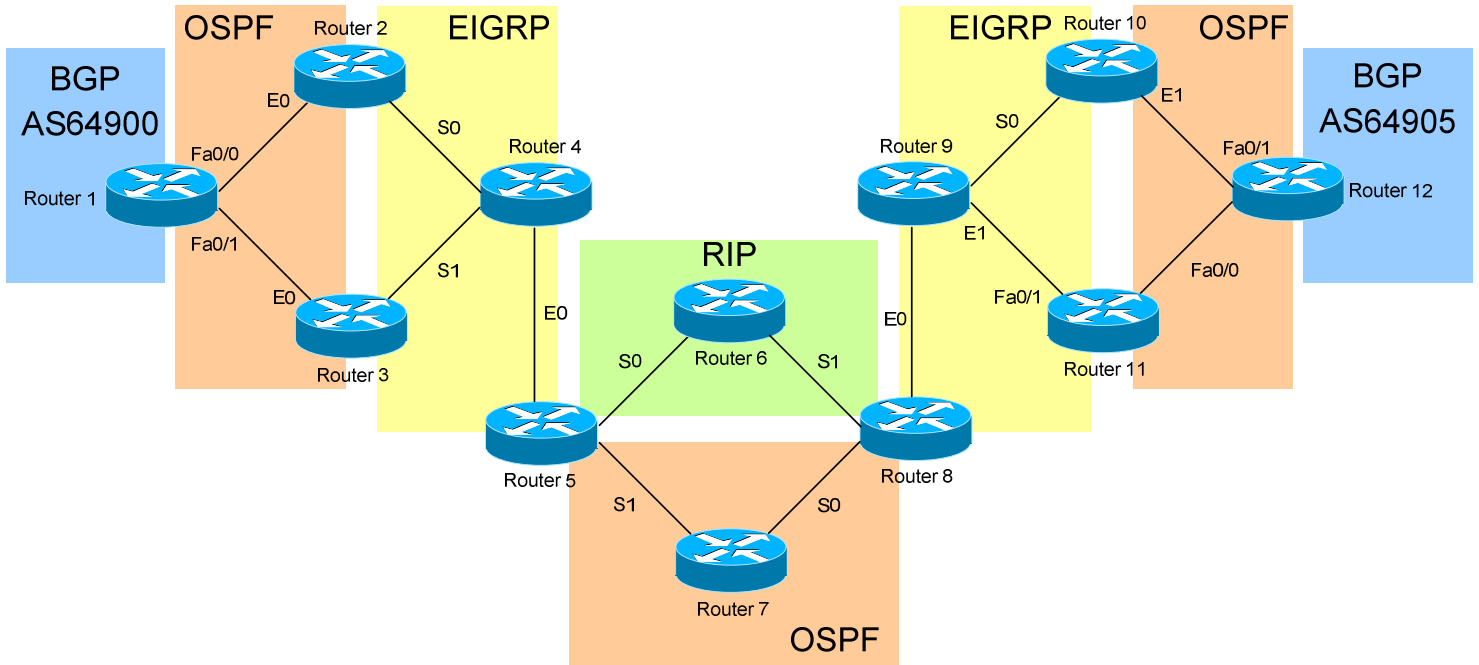
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**Configuring Route Redistribution – Lab (continued)**



**Redistribution Objectives:**

6. Perform route redistribution between all IGPs.

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7. Ensure that neither route feedback nor routing loops occur after redistribution is complete.

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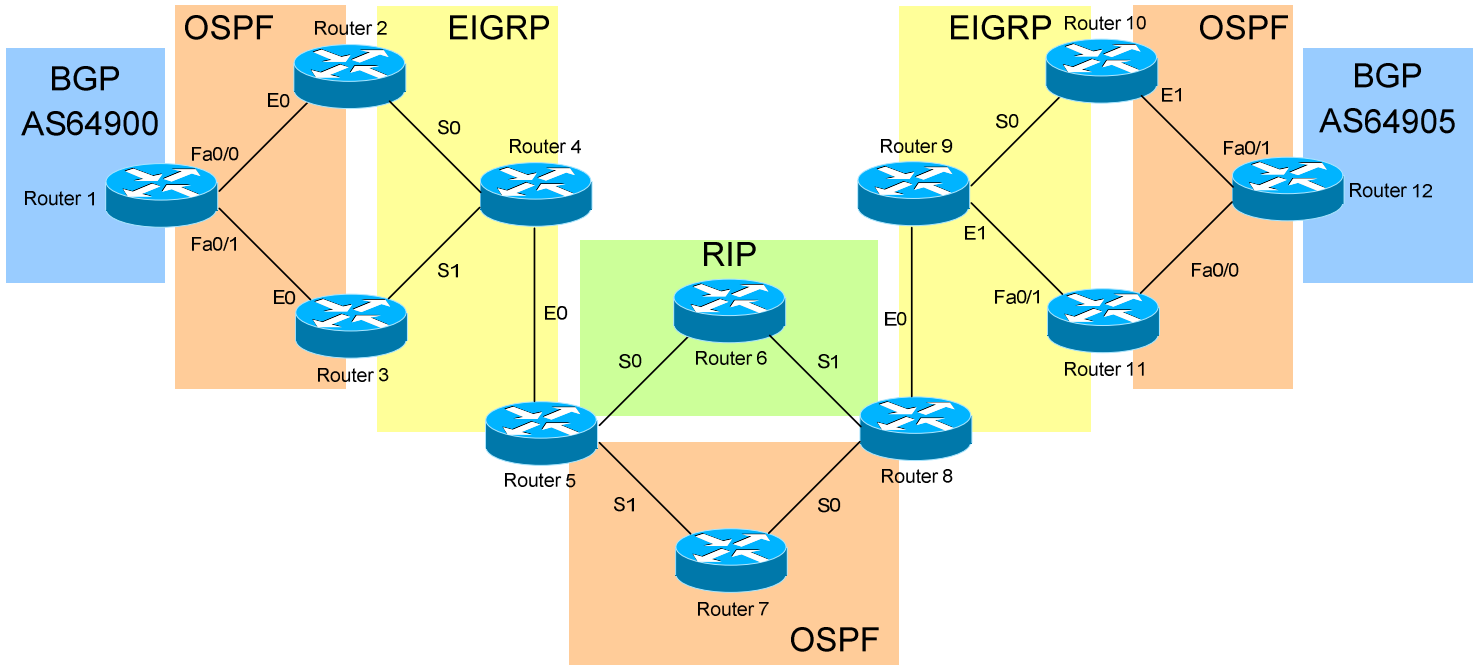
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**Configuring Route Redistribution – Lab (continued)**



**Redistribution Objectives:**

8. Ensure and test the reachability of all networks.

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9. Configure Router 1 and Router 12 as eBGP peers, using the AS numbers as diagrammed.

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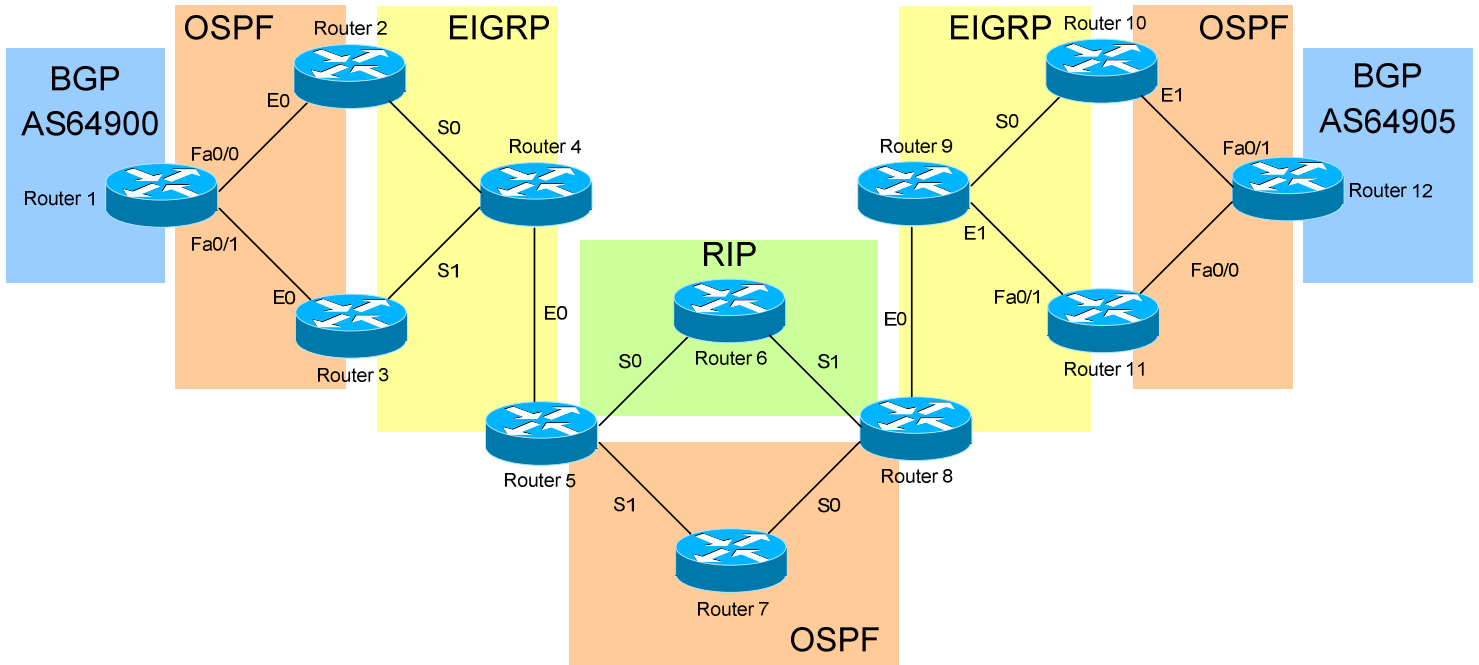
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**Configuring Route Redistribution – Lab (continued)**



**Redistribution Objectives:**

10. On Router 1 and Router 12, create a loopback interface with the following address 66.XX.1.1/16, where XX is your router number.

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11. Create static routes on both routers to the following networks, and set a next hop of 66.XX.1.2:

77.XX.0.0/24, 77.XX.1.0/24, 77.XX.2.0/24, 77.XX.3.0/24

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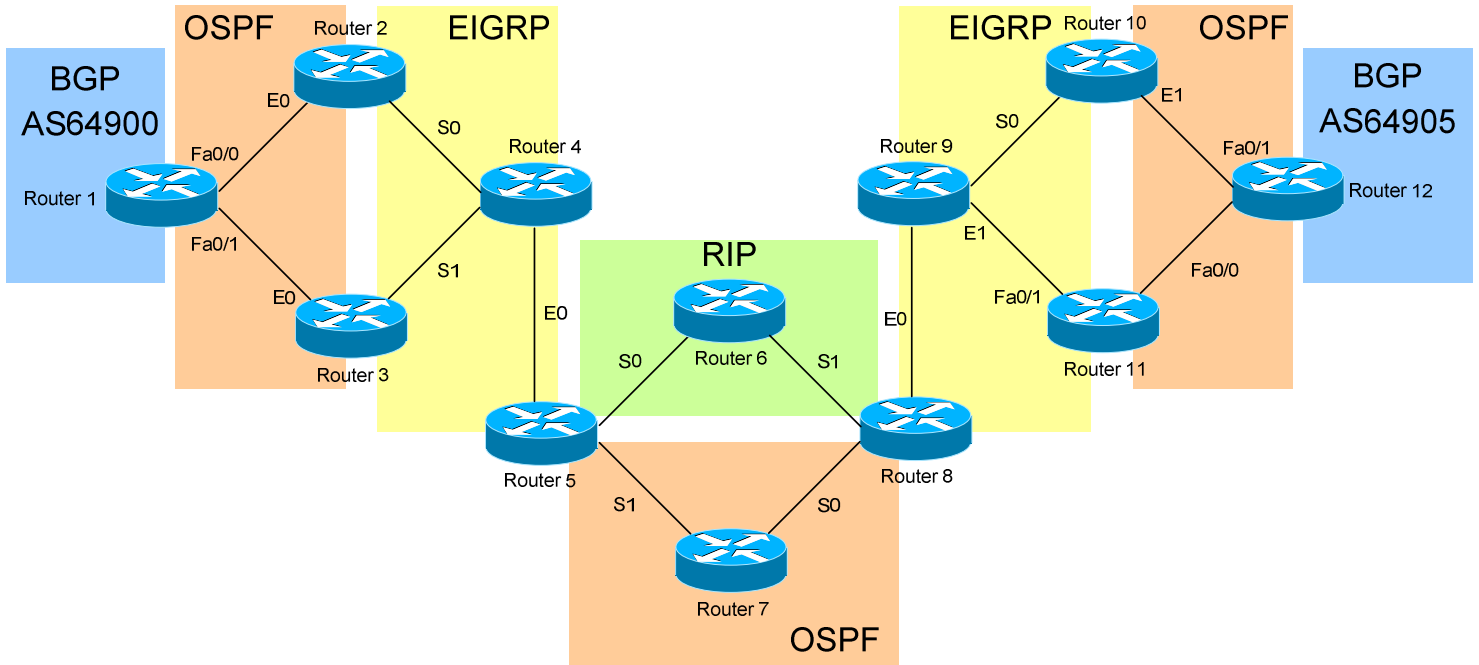
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**Configuring Route Redistribution – Lab (continued)**



**Redistribution Objectives:**

12. Advertise these static routes into BGP without using the *network* command. Ensure Router 1 and Router 12 can see each other's static routes via BGP.

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