**IFT 466 Advanced Computer Networks**

**Lab 3  
EIGRP – Passive Interface**

After you complete each step, put a ‘√’ or ‘x’ in the completed box

**Quick Reminder:** Passive interface command is used to control the advertisement of routing information. The command enables the suppression of routing updates over some interfaces while it allows updates to be exchanged over the other interfaces.

1. Setup up the following topology on Packet Tracer

Diagram

Description automatically generated

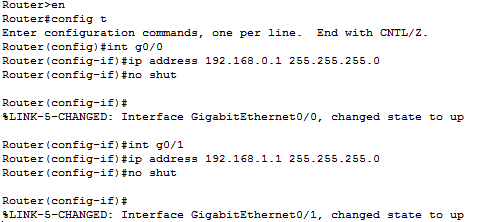
**Logo

Description automatically generated with low confidence**

✓

1. Configure IP addresses on the R0 interfaces

**Logo

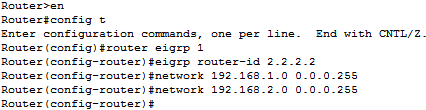
Description automatically generated with low confidence****Logo

Description automatically generated with low confidence**

✓

1. **Logo

   Description automatically generated with low confidence**Repeat the same configurations for Routers 1 and 2 using the addresses on the topology above.   
     
    ✓
2. Now we will configure EIGRP on the routers starting on R2



**Logo

Description automatically generated with low confidence** ✓

1. Repeat the same steps for Routers 0 and 1

**Logo

Description automatically generated with low confidence**

✓

1. Go back into Router 2  
     
   Now run the show ip eigrp neighbors command, you should see both neighbors.  
     
   Insert a screenshot of the command below with both neighbors shown

Graphical user interface, application

Description automatically generated with medium confidence

1. Now run the show ip protocols commands verify that EIGRP 1 is the protocol  
     
   Check out the metrics being used….K1 and K3 should both be usedGraphical user interface, text, application

   Description automatically generated

**Logo

Description automatically generated with low confidence**

✓

1. Now run the show ip route on Router 2 to make sure that the 192.168.0.0 network is in our route table (which was learned via EIGRP).  
     
   Insert a screenshot of the command below with both neighbors shown

Calendar

Description automatically generated with medium confidence

1. Go back to R2 and we will make the G0/0 interface passive



**Logo

Description automatically generated with low confidence**

✓

1. Insert a screenshot of the message which appears telling you that you connection to the neighbor is “down” as the hold time has expired.

Graphical user interface, text, application

Description automatically generated

1. Now run the show ip eigrp neighbors command on R2 and that neighbor should not appear on the list.   
     
   Insert a screenshot of the command below with that neighbor gone.

Graphical user interface, text

Description automatically generated