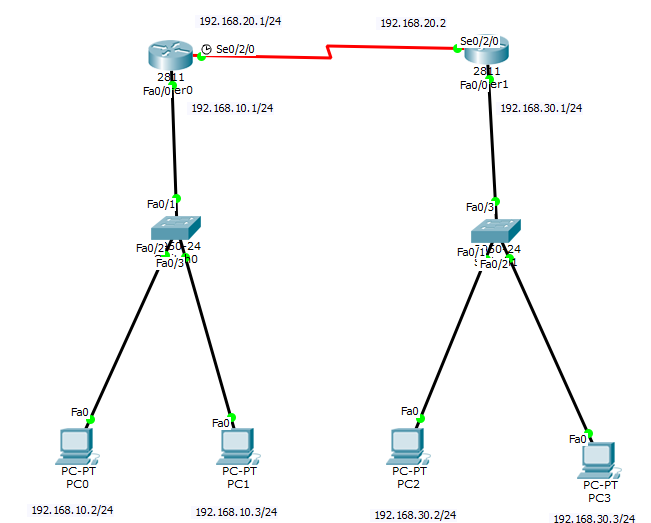
**IFT 466 Advanced Computer Networks**

**Lab 1  
EIGRP – Basic Configuration**

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

**Objective**Demonstrate how to configure the Enhanced Interior Gateway Routing Protocol (EIGRP) in a network topology.

1. Setup up the following topology on Packet Tracer

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✓

1. Configure both the PCs and routers with the layer 3 addressing all on appropriate interfaces

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✓

1. Confirm the following

PC0 can ping its default gateway

PC0 cannot ping PC2

**** ✓

Graphical user interface

Description automatically generated

1. We will now assign the EIGRP protocol on both routers

We will enable the EIGRP routing process on each router using AS number 10

**Question**  
What is the range of numbers that can be used for AS numbers?   
  
**1- 65535**

We will then advertise directly connected networks via the network command





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✓

Step 1: open CLI mode in the router.

Step 2:

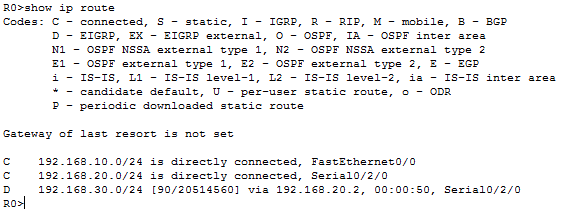
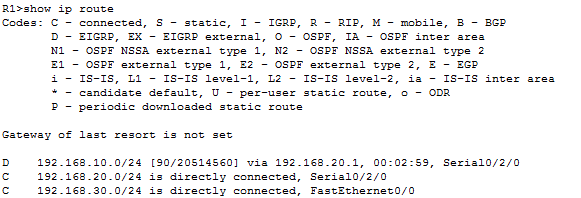
**R0**

* Router> Enable
* Router# Config Terminal
* Router(config)# router eigrp 10
* Router(config-router)# network 192.168.10.0 0.0.0.255
* Router(config-router)# network 192.168.20.0 0.0.0.255
* Router(config-router)# do wr

**R1**

* Router> Enable
* Router# Config Terminal
* Router(config)# router eigrp 10
* Router(config-router)# network 192.168.20.0 0.0.0.255.255.255.0
* Router(config-router)# network 192.168.30.0 255.255.255.0
* Router(config-router)# do wr

1. Run the show ip route command on R0/R1 and now both routers have now learned of the extra network



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✓

A screenshot of a computer

Description automatically generated with medium confidence

Graphical user interface, application

Description automatically generated

Now try and ping PC2 from PC0 and it should work

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✓

Graphical user interface

Description automatically generated