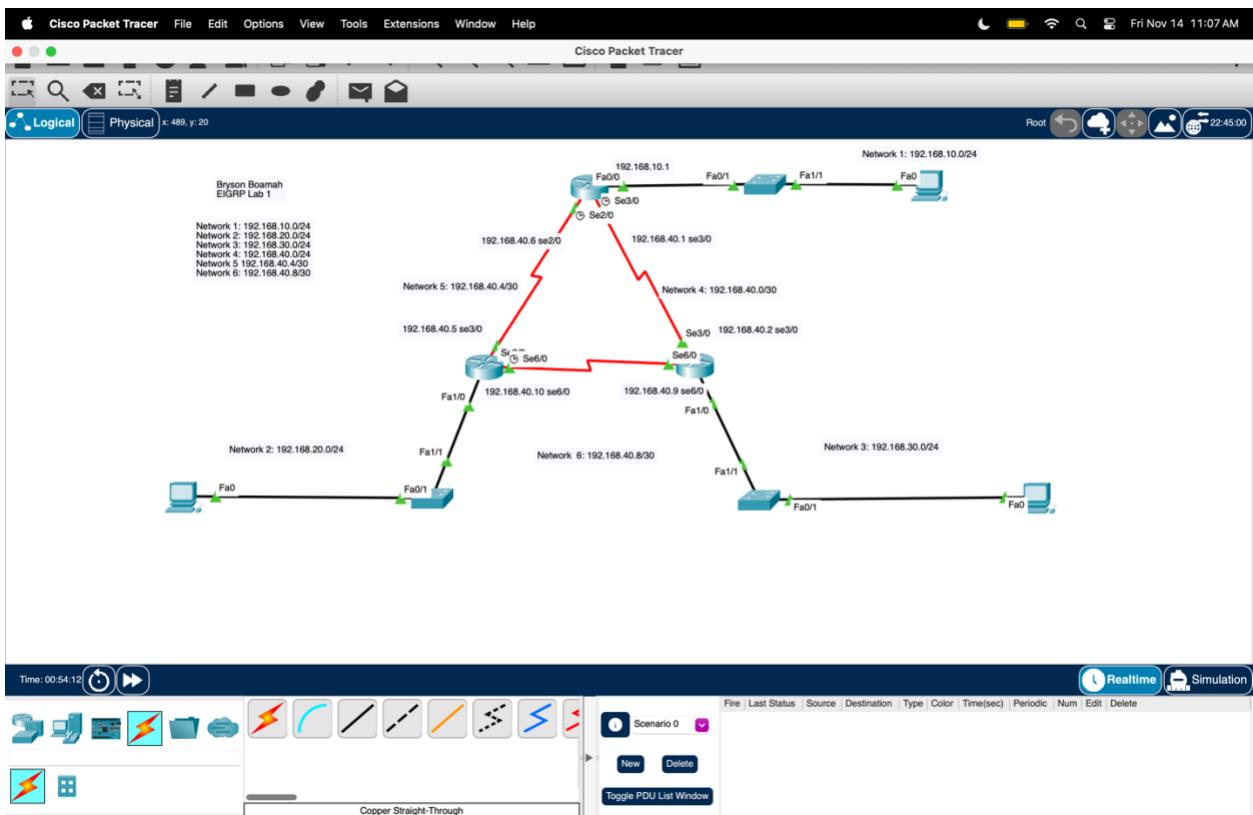


# Networking Infrastructure Management

## Configuring EIGRP Lab 1

Complete the EIGRP Lab 1 and submit the following screenshots. Ensure screenshots are viewable.

1. The network diagram includes all routers, switches, and PCs. All network addresses with CIDR and all statically assigned addresses are annotated. Student's name and lab number are shown.



2. Display the results of the 'show ip route' command from one of the routers. Ensure the eigrp routes are displayed.

```
Router# show ip route
Codes: C - Connected, S - static, I - ISGRP, R - RIP, M - mobile, B - BGP
      D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
      N1 - OSPF external type 1, N2 - OSPF external type 2
      E1 - OSPF external type 1, E2 - OSPF external type 2
      i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
      * - candidate default, p - periodic downloaded static route, o - OSPF
      P - periodic downloaded static route

Gateway of last resort is not set

C 192.168.10.2/24 [1/0] via 192.168.49.1, 00:01:47, Serial3/0
D 192.168.20.2/24 [90/23515450] via 192.168.49.15, 00:01:14, Serial4/0
C 192.168.30.2/24 is directly connected, FastEthernet0/0
192.168.30.254/32 is directly connected, FastEthernet0/0
D 192.168.40.2/24 is a summary, 00:00:35, Null0
C 192.168.40.4/30 [90/21024000] via 192.168.49.1, 00:01:47, Serial3/0
D 192.168.40.4/30 is directly connected, Serial4/0
C 192.168.40.4/30 is directly connected, Serial4/0
```

3. A ping between two of the PCs. Ensure the sending PC has its IP address visible.

Cisco Packet Tracer - Cisco Command Line 1.0  
C:\ping 192.168.20.100

Pinging 192.168.20.100 with 32 bytes of data:

Request timed out.  
Reply from 192.168.20.100: bytes=32 time<1ms TTL=125  
Reply from 192.168.20.100: bytes=32 time=40ms TTL=125  
Reply from 192.168.20.100: bytes=32 time=40ms TTL=125

Ping statistics for 192.168.20.100:  
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss).  
Approximate round trip times in milli-seconds:  
Minimum = 4ms, Maximum = 40ms, Average = 7ms

C:\ping 192.168.20.100

Pinging 192.168.20.100 with 32 bytes of data:

Reply from 192.168.20.100: bytes=32 time=9ms TTL=125  
Reply from 192.168.20.100: bytes=32 time=42ms TTL=125  
Reply from 192.168.20.100: bytes=32 time=13ms TTL=125  
Reply from 192.168.20.100: bytes=32 time=1ms TTL=125

Ping statistics for 192.168.20.100:  
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss).  
Approximate round trip times in milli-seconds:  
Minimum = 1ms, Maximum = 47ms, Average = 30ms

C:\|