6/11/2020

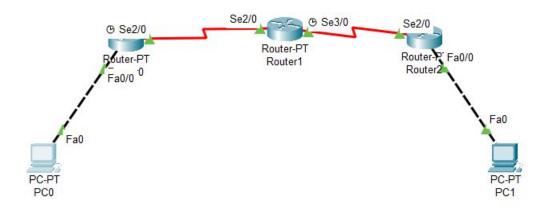
CN Lab 7

Learnings and Observations:

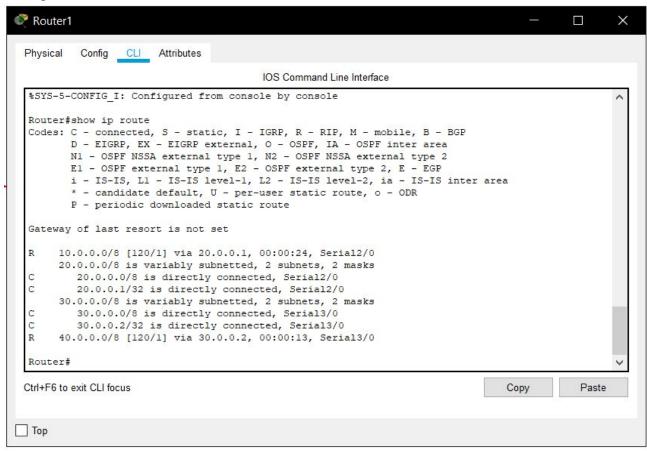
A topology was created using PCs and Routers. Routing Information Protocol was implemented to employ the hop count as a routing metric to find the best path between the source and the destination network. Verified by a ping test.

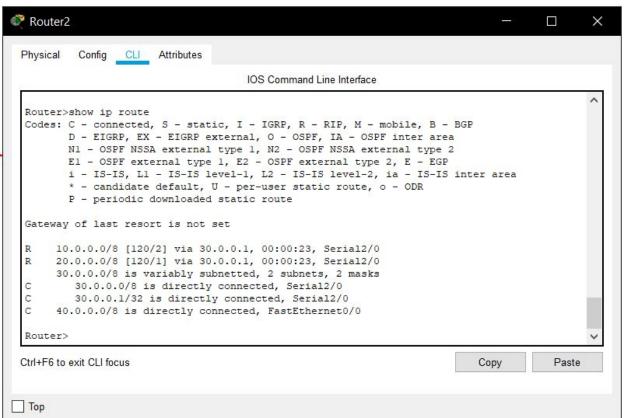
Screenshots:

Connection/topology



Config





Terminal

```
PC0
                                                                                                                                ×
  Physical Config Desktop Programming Attributes
                                                                                                                              Χ
  Command Prompt
  Packet Tracer PC Command Line 1.0 C:\>ping 40.0.0.1
  Pinging 40.0.0.1 with 32 bytes of data:
  Request timed out.
  Reply from 40.0.0.1: bytes=32 time=2ms TTL=125 Reply from 40.0.0.1: bytes=32 time=2ms TTL=125
  Reply from 40.0.0.1: bytes=32 time=10ms TTL=125
  Ping statistics for 40.0.0.1:
  Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
       Minimum = 2ms, Maximum = 10ms, Average = 4ms
  C:\>ping 40.0.0.1
  Pinging 40.0.0.1 with 32 bytes of data:
  Reply from 40.0.0.1: bytes=32 time=9ms TTL=125
Reply from 40.0.0.1: bytes=32 time=16ms TTL=125
  Reply from 40.0.0.1: bytes=32 time=2ms TTL=125
  Reply from 40.0.0.1: bytes=32 time=2ms TTL=125
  Ping statistics for 40.0.0.1:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds:
       Minimum = 2ms, Maximum = 16ms, Average = 7ms
   C:\>
Тор
```