LAB WEEK 7

To configure RIP routing protocol in Routers.

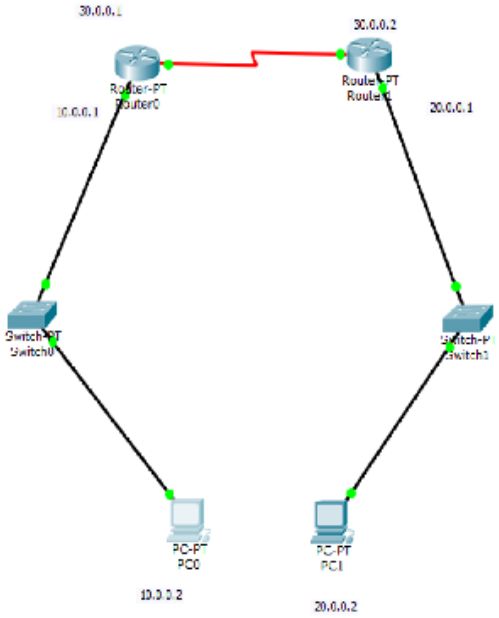

Figure 1: Topology

```
Packet Tracer PC Command Line 1.0
PC>ping 10.0.0.1

Pinging 10.0.0.1 with 32 bytes of data:

Reply from 10.0.0.1: bytes=32 time=0ms TTL=256
Reply from 10.0.0.1: bytes=32 time=0ms TTL=256
Reply from 10.0.0.1: bytes=32 time=0ms TTL=256
Reply from 10.0.0.1: bytes=32 time=0ms TTL=256

Ping statistics for 10.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

PC>ping 910.0.0.1
Ping request could not find host 910.0.0.1. Please check the name and try agai
PC>ping 30.0.0.1

Pinging 30.0.0.1 with 32 bytes of data:

Reply from 30.0.0.1: bytes=32 time=0ms TTL=256
Reply from 30.0.0.1: bytes=32 time=0ms TTL=256
Reply from 30.0.0.1: bytes=32 time=0ms TTL=256
Reply from 30.0.0.1: bytes=32 time=0ms TTL=256

Ping statistics for 30.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

PC>ping 30.0.0.2

Pinging 30.0.0.2 with 32 bytes of data:

Reply from 30.0.0.2: bytes=32 time=1ms TTL=254
Reply from 30.0.0.2: bytes=32 time=1ms TTL=254
Reply from 30.0.0.2: bytes=32 time=0ms TTL=254
Reply from 30.0.0.2: bytes=32 time=4ms TTL=254

Ping statistics for 30.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 4ms, Average = 2ms

PC>ping 20.0.0.1

Pinging 20.0.0.1 with 32 bytes of data:

Reply from 20.0.0.1: bytes=32 time=1ms TTL=254
Reply from 20.0.0.1: bytes=32 time=0ms TTL=254
Reply from 20.0.0.1: bytes=32 time=0ms TTL=254
Reply from 20.0.0.1: bytes=32 time=0ms TTL=254

Ping statistics for 20.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

Figure 2: Output

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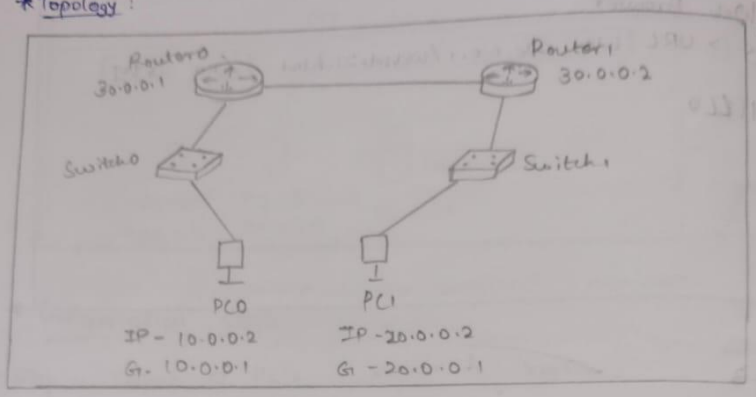
To configure RIP routing Protocol in Routers

* Topology :



* Configuration Steps:

Step 1: Select 2 PCs, 2 switches and 2 Router and connect all the end devices.

Step 2: Set IP address and Gateway for PC & Router

IP: PC0 - 10.0.0.2 , PC1 - 20.0.0.2
Router0 - 30.0.0.1
Router1 - 30.0.0.2

G: PC0 - 10.0.0.1 PC1 - 20.0.0.1

Step 3: Select Router0, Select RIP & add networks as 10.0.0.0 & 30.0.0.0, Follow same for Router1.

Step 4: Go to settings, In NVRAM save the changes

Step 5: Ping from PC-0 to PC-1

Figure 3: Observation Book 1

* Observation:

PC> ping 20.0.0.2

pinging 20.0.0.2 with 32 bytes of data:

Reply from 20.0.0.2 with 32 bytes of data:

Reply from 20.0.0.2: bytes=32 time=1ms TTL=128

ping statistics for 20.0.0.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 1ms, Maximum = 13ms, Average = 6ms

PC> ping 30.0.0.2

pinging 30.0.0.2 with 32 bytes of data:

Reply from 30.0.0.2: bytes = 32, time = 1ms TTL=128

ping statistics for 30.0.0.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% Loss)

Approximate round trip times in milli-seconds:

Minimum = 1ms, Maximum = 5ms, Average = 3ms

Figure 4: Observation Book 2

To configure RIP routing protocol in Routers using 3 routers

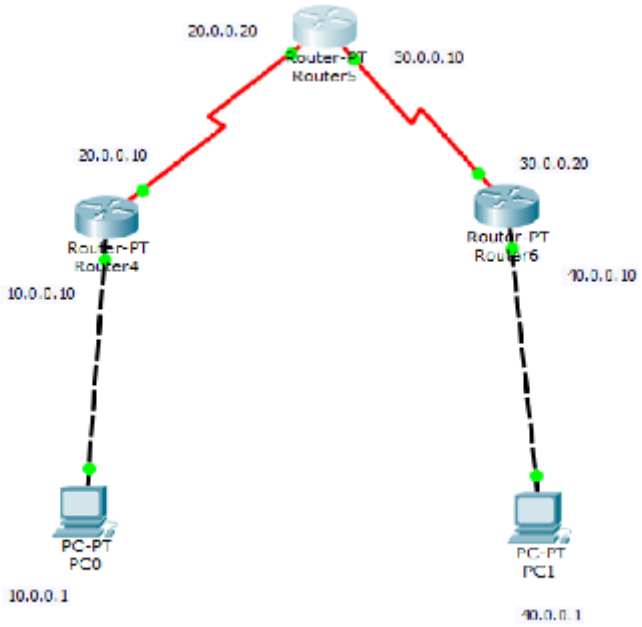


Figure 5: Topology

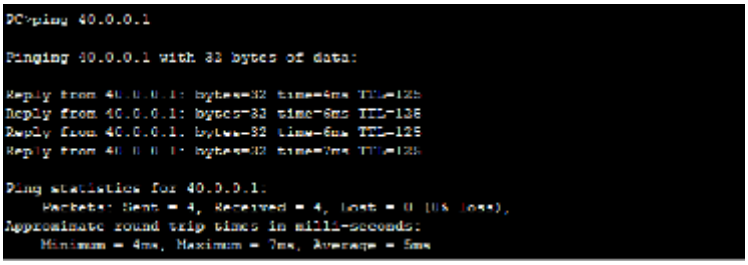


Figure 6: Output