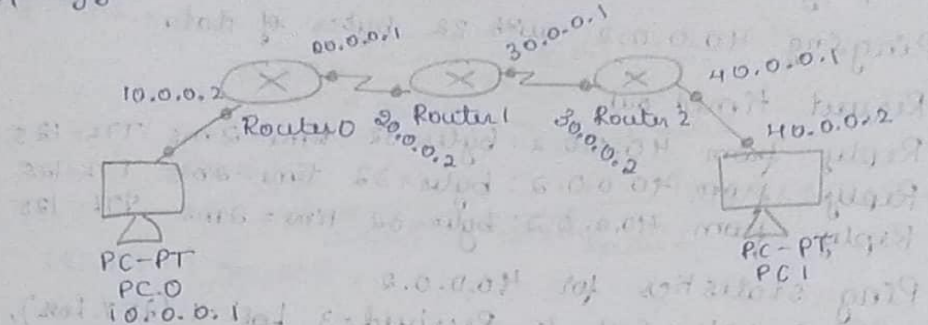


## Configure RIP routing Protocol in Routers

### Router Interface Protocol (RIP)

Topology:



Procedure:

- Create a topology with 2 PCs, 3 Routers.
- Configure PC with IP address and gateway.
- Configure Routers.

For Router 0,

enable

config terminal

interface fastethernet 0/0

ip address 10.0.0.1

interface Serial 2/0

ip address 20.0.0.2

encapsulation PPP

no shutdown

clock rate 64000

- Encapsulation PPP is given to all serial connections and clock rate 64000 is given whenever clock is present.

- Configure all routers,

For Router 0,

Router# enable

Router# show ip route

Router# config t

Router(config)# router rip

Router(config-router)# network 10.0.0.0

Router(config-router)# network 20.0.0.0

exit

Output:

In PC0,

ping 40.0.0.2

Pinging 40.0.0.2 with 32 bytes of data:

Request timed out.

Reply from 40.0.0.2: bytes=32 time=2ms TTL=125

Reply from 40.0.0.2: bytes=32 time=2ms TTL=125

Reply from 40.0.0.2: bytes=32 time=2ms TTL=125

Reply from 40.0.0.2: bytes=32 time=2ms TTL=125

Ping statistics for 40.0.0.2:

Packets: Sent=4, Received=3, Lost=1 (25% loss),

Approximate round trip times in milli-seconds:

Minimum=2ms, Maximum=13ms, Average=8ms

ping 40.0.0.2

Pinging 40.0.0.2 with 32 bytes of data:

Reply from 40.0.0.2: bytes=32 time=2ms TTL=125

Reply from 40.0.0.2: bytes=32 time=2ms TTL=125

Reply from 40.0.0.2: bytes=32 time=2ms TTL=125

Reply from 40.0.0.2: bytes=32 time=2ms TTL=125

Ping statistics for 40.0.0.2:

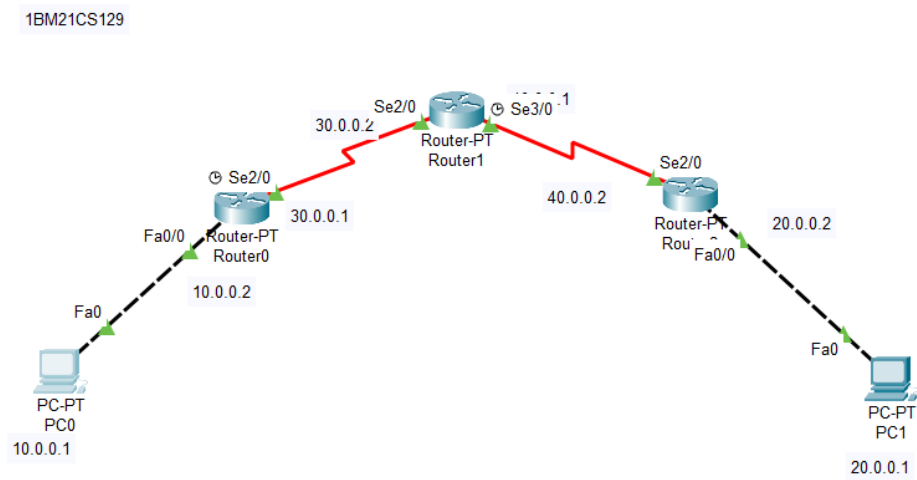
Packets: Sent=4, Received=4, Lost=0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum=2ms, Maximum=13ms, Average=8ms

*[Handwritten signature]*

## Topology:



## Output:

```
Physical Config Desktop Programming Attributes
Command Prompt

Cisco Packet Tracer PC Command Line 1.0
C:\>ping 20.0.0.1

Pinging 20.0.0.1 with 32 bytes of data:

Request timed out.
Reply from 20.0.0.1: bytes=32 time=24ms TTL=125
Reply from 20.0.0.1: bytes=32 time=25ms TTL=125
Reply from 20.0.0.1: bytes=32 time=25ms TTL=125

Ping statistics for 20.0.0.1:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 24ms, Maximum = 25ms, Average = 24ms

C:\>
```