

20/11/2024

## Experiment 5-Configure RIP routing Protocol in Router

Observation Book:

20/11/24

EXPERIMENT-5

R: Configure of routing information protocol (RIP)

AIM: RIP configuration in cisco packet

TOPOLOGY:

PROCEDURE:

- 1) Connect the devices as shown above such that all the links turn green.  
for end devices → Fast Ethernet (?) → Set IP, Subnet  
→ Settings → enter gateway
- 2) For routing:  
For each router go to CLI and enter  
ex: Router 1  
Router>enable  
Router#config terminal  
Router(config)#router rip  
Router(config-router)#network 40.0.0.0  
Router(config-router)#network 50.0.0.0  
Router(config-router)#network 20.0.0.0

Similarly for  
 Router 0 → connect to network 10.0.0.0 and 40.0.0.0  
 Router 2 → connect to network 50.0.0.0 and 30.0.0.0

3) Once this setup is complete, we can ping the message from one device to any other end device.

#### OUTPUT:

In Router 0

Router # show ip route

```
C 10.0.0.0/8 is directly connected, fastEthernet 0/0
R 20.0.0.0/8 [120/1] via 40.0.0.2, 00:00:15, Serial 2/0
R 30.0.0.0/8 [120/1] via 40.0.0.2, 00:00:15, Serial 2/0
C 40.0.0.0/8 is directly connected, Serial 2/0
R 50.0.0.0/8 [120/1] via 40.0.0.2, 00:00:15, Serial 2/0
```

Similarly the output is shown for "show ip route" on router 1 and 2.

Ping output (from PC5 to PC0)

(from PC5 to PC0)

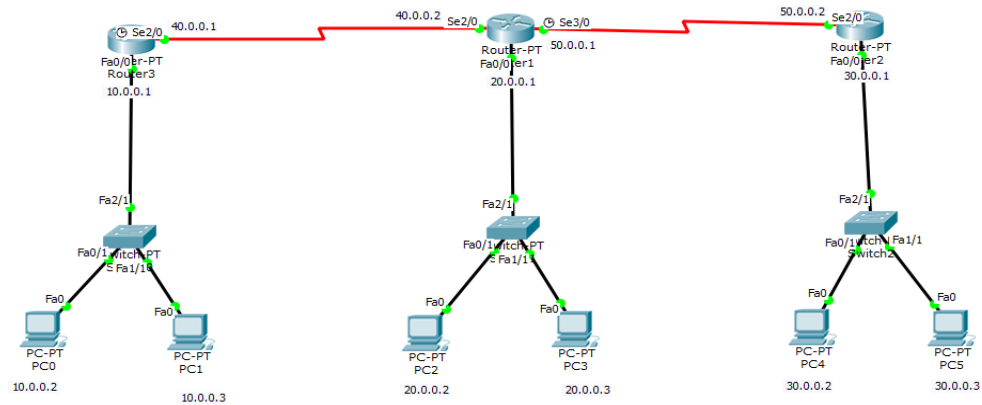
PC5 → command prompt.

PC > ping 10.0.0.2  
 ping 10.0.0.2 with 32 bytes of data.

Reply from 10.0.0.2:	bytes=32	time=2ms	TTL=125
Reply from 10.0.0.2:	bytes=32	time=2ms	TTL=125
Reply from 10.0.0.2:	bytes=32	time=1ms	TTL=125
Reply from 10.0.0.2:	bytes=32	time=1ms	TTL=125

Ping statistics for 10.0.0.2:  
 Packets: Sent = 4, Received = 4, Lost = 0 (0% loss)

## Topology:



## Output:

