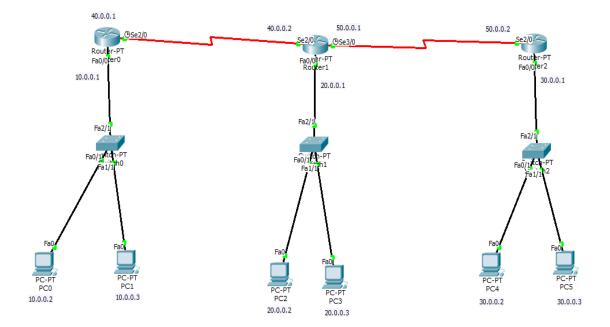


Roubet: In Router CLI > Show IP Route R 10.0-0.0/8 [120/1] via 40.0-0.00 , time , Se 2/12 C 20.0.0.0/8 wideredly commeded , Fa 0/0 R 30.0.0.018 [20/1] via 56.0.0.2, pine, Se 3/0 C 40.0.0.018 is directly connected, Be 210 C 50.0.018 is directly connected, se 3/2 (Similar for other Router In Pestop CLI Forom PC1 Pairs 20.0-0.2 request Timed out Peply forom 20.0.0.2: byte 32, time 2(ms, TTL-12E Ping statistics (Similer foor alters) Observation: We alsowe that using Router Information Protocol, eve can connect multiple Vetworks which can enable communication believes systems in different networks. Routers talk & share their Router tables with each other which shables the connection Once RIP is activated in Router, every nouter shaves its grouting protocol with its immediate neighbour, Hence in iterations every rauley will know about all network that their neighbour are connected to.



```
Router>enable
Router#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
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
Router(config-router) #exit
Router (config) #exit
Router#
%SYS-5-CONFIG I: Configured from console by console
Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route
Gateway of last resort is not set
     10.0.0.0/8 [120/1] via 40.0.0.1, 00:00:21, Serial2/0
R
С
    20.0.0.0/8 is directly connected, FastEthernet0/0
R
    30.0.0.0/8 [120/1] via 50.0.0.2, 00:00:09, Serial3/0
С
     40.0.0.0/8 is directly connected, Serial2/0
     50.0.0.0/8 is directly connected, Serial3/0
Router#
```

```
louter#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
      D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
      N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
      E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
      i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
      * - candidate default, U - per-user static route, o - ODR
      P - periodic downloaded static route
Sateway of last resort is not set
   10.0.0.0/8 is directly connected, FastEthernet0/0
  20.0.0.0/8 [120/1] via 40.0.0.2, 00:00:12, Serial2/0
   30.0.0.0/8 [120/2] via 40.0.0.2, 00:00:12, Serial2/0
40.0.0.0/8 is directly connected, Serial2/0

    50.0.0.0/8 [120/1] via 40.0.0.2, 00:00:12, Serial2/0

Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route
Gateway of last resort is not set
     10.0.0.0/8 [120/2] via 50.0.0.1, 00:00:11, Serial2/0
    20.0.0.0/8 [120/1] via 50.0.0.1, 00:00:11, Serial2/0
    30.0.0.0/8 is directly connected, FastEthernet0/0
R 40.0.0.0/8 [120/1] via 50.0.0.1, 00:00:11, Serial2/0
    50.0.0.0/8 is directly connected, Serial2/0
```

```
Command Prompt
```

```
Packet Tracer PC Command Line 1.0
PC>ping 20.0.0.2
Pinging 20.0.0.2 with 32 bytes of data:
Request timed out.
Reply from 20.0.0.2: bytes=32 time=21ms TTL=126
Reply from 20.0.0.2: bytes=32 time=2ms TTL=126
Reply from 20.0.0.2: bytes=32 time=2ms TTL=126
Ping statistics for 20.0.0.2:
   Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
Minimum = 2ms, Maximum = 2lms, Average = 8ms
PC>ping 30.0.0.2
Pinging 30.0.0.2 with 32 bytes of data:
Request timed out.
Reply from 30.0.0.2: bytes=32 time=8ms TTL=125
Reply from 30.0.0.2: bytes=32 time=7ms TTL=125
Reply from 30.0.0.2: bytes=32 time=6ms TTL=125
Ping statistics for 30.0.0.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
Minimum = 6ms, Maximum = 8ms, Average = 7ms
PC>ping 10.0.0.2
Pinging 10.0.0.2 with 32 bytes of data:
Reply from 10.0.0.2: bytes=32 time=0ms TTL=128
Ping statistics for 10.0.0.2:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

Command Prompt

```
Packet Tracer PC Command Line 1.0
PC>ping 10.0.0.2
Pinging 10.0.0.2 with 32 bytes of data:
Reply from 10.0.0.2: bytes=32 time=8ms TTL=126
Reply from 10.0.0.2: bytes=32 time=3ms TTL=126
Reply from 10.0.0.2: bytes=32 time=5ms TTL=126
Reply from 10.0.0.2: bytes=32 time=3ms TTL=126
Ping statistics for 10.0.0.2:
   Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
   Minimum = 3ms, Maximum = 8ms, Average = 4ms
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=5ms TTL=126
Reply from 30.0.0.2: bytes=32 time=4ms TTL=126
Reply from 30.0.0.2: bytes=32 time=6ms TTL=126
Reply from 30.0.0.2: bytes=32 time=4ms TTL=126
Ping statistics for 30.0.0.2:
   Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
   Minimum = 4ms, Maximum = 6ms, Average = 4ms
PC>
```

Command Prompt

```
Packet Tracer PC Command Line 1.0
PC>ping 20.0.0.3
Pinging 20.0.0.3 with 32 bytes of data:
Request timed out.
Reply from 20.0.0.3: bytes=32 time=4ms TTL=126
Reply from 20.0.0.3: bytes=32 time=6ms TTL=126
Reply from 20.0.0.3: bytes=32 time=1ms TTL=126
Ping statistics for 20.0.0.3:
   Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
   Minimum = 1ms, Maximum = 6ms, Average = 3ms
PC>ping 10.0.0.3
Pinging 10.0.0.3 with 32 bytes of data:
Reply from 10.0.0.3: bytes=32 time=7ms TTL=125
Reply from 10.0.0.3: bytes=32 time=10ms TTL=125
Reply from 10.0.0.3: bytes=32 time=8ms TTL=125
Reply from 10.0.0.3: bytes=32 time=6ms TTL=125
Ping statistics for 10.0.0.3:
   Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
   Minimum = 6ms, Maximum = 10ms, Average = 7ms
PC>
```