Experiment - 5

Aim: Configure RIP routing Protocol in Routers

20.0.0.20

Se2/0

30.0.0.20

Se2/0

Route Fa0/0

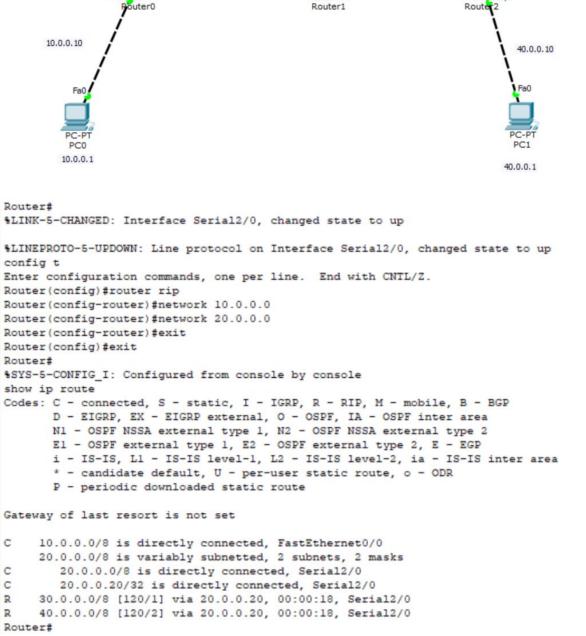
30.0.0.10

@ Se3/0

20.0.0.10

(9 Se2/0

Fa0/0 ter-PT



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Routerf
%LINK-5-CHANGED: Interface Serial3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up
config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #router rip
Router (config-router) #network 20.0.0.0
Router(config-router) #network 30.0.0.0
Router (config-router) #exit
Router (config) #exit
Routerf
%SYS-5-CONFIG I: Configured from console by console
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 20.0.0.10, 00:00:20, Serial2/0
     20.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C
        20.0.0.0/8 is directly connected, Serial2/0
C
        20.0.0.10/32 is directly connected, Serial2/0
     30.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
        30.0.0.0/8 is directly connected, Serial3/0
C
        30.0.0.20/32 is directly connected, Serial3/0
     40.0.0.0/8 [120/1] via 30.0.0.20, 00:00:19, Serial3/0
Router#
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #network 30.0.0.0
% Invalid input detected at '^' marker.
Router (config) #router rip
Router(config-router) #network 30.0.0.0
Router(config-router) #network 40.0.0.0
Router (config-router) #exit
Router (config) #exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
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 30.0.0.10, 00:00:14, Serial2/0
R
     20.0.0.0/8 [120/1] via 30.0.0.10, 00:00:14, Serial2/0
     30.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C
       30.0.0.0/8 is directly connected, Serial2/0
       30.0.0.10/32 is directly connected, Serial2/0
    40.0.0.0/8 is directly connected, FastEthernet0/0
Router#
```

```
Packet Tracer PC Command Line 1.0
PC>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=10ms TTL=125
Reply from 40.0.0.1: bytes=32 time=7ms TTL=125
Reply from 40.0.0.1: bytes=32 time=10ms TTL=125

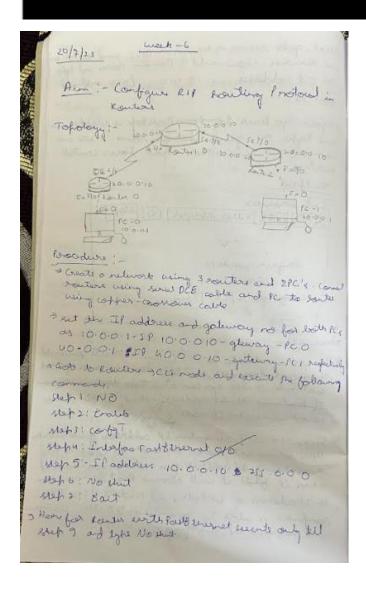
Ping statistics for 40.0.0.1:

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

Approximate round trip times in milli-seconds:

Minimum = 7ms, Maximum = 10ms, Average = 9ms

PC>
```



- Appen go to Route O I CLI mode and light this thatis-Step 1: - ConfgT steh 2: South 90th step 3 - Melwork 10.0.00 step 4: - Network 20.00.0 step 5: - built 3 Refeat their steps for all souther > at lost now go to each exceller and type whom it must not the strong on this believes associated with me monter will be labelled as a O and other II addresses on boldled 0912. time author :-3 locked leaves pc command Line 10 PC > Puguo 001 Purgue 60.0.0.1 with 32 legtes of data Request timed out: Rofley 1,0000 40 001 : lugles = 72 Junes 8ms TTL = 125 Reply from 40.001: light= 32 lines. Sing TTL - 125 Refly from 40:001: legter 32 times: 10ms TIL: 125 Oliveration !-= RIP is a dynamic routing probed that was not count a routing meloni to find on head path Dhelwer house and destindo 3 Hop count is he no of houters coming in heteren house and destination. a copdate of southing integration are always tour + full conting tobles are sent in wholes I hanters always found nouting information recent from neighbours trouters.