08/12/203 Aim: Lonfiguring RIP routing protocol in Routers. Topology: In west has a sent on the 20.0.0.1 20.0.0.2 30.0.0.1 30.0.0.2

DSe2/0 Bez/0 Bez/0 Routero, Routers Routers 40.0.0.10 10.0.619 La monstoon with book show tenders 0 220; dans towelve, 1.0.000 ; evelaba git Steam towhere 1.0.00 : steekho gi = 13 = 10.0.0.b # - ildans < randomna ell sel Sirial DCE: Sirial connections, often used for L'AN links must be connected between serial to porte the ment enable clocking on the DCE ride to bring up the line protocol. We can tell which and of the connection is the DCE ide by the small "clock" icon next to the part Introduction: Routing Information protocol (RIP) is a protocol that nouters can use to exchange network topology information. RIP wer a distance vector algorithm to decide which path to put a packet on to get to its distinction.

Procedure: | milion 700 principal : 100 Place two PC's and three nouters and commit the PC and router with copper cross over cable and the nouters are connected with each other with serial DCE cable. -> Click on the PC's and set the ip address.

submit mark and the grateway for each of
the PC's. P(0 -> ip addres: 10.0.0.1, ubnet mask: 255.0.0.0 PCI -> ip address: 40.0.0.1, subnet mark: 255.0.00

gateway: 40.0.0.10 -> Click on the first nouter -> go to cli-> > click on the first routh > go to clt

type the commands > enable; # config t;

# interface fartethermeto/o; # ip address;

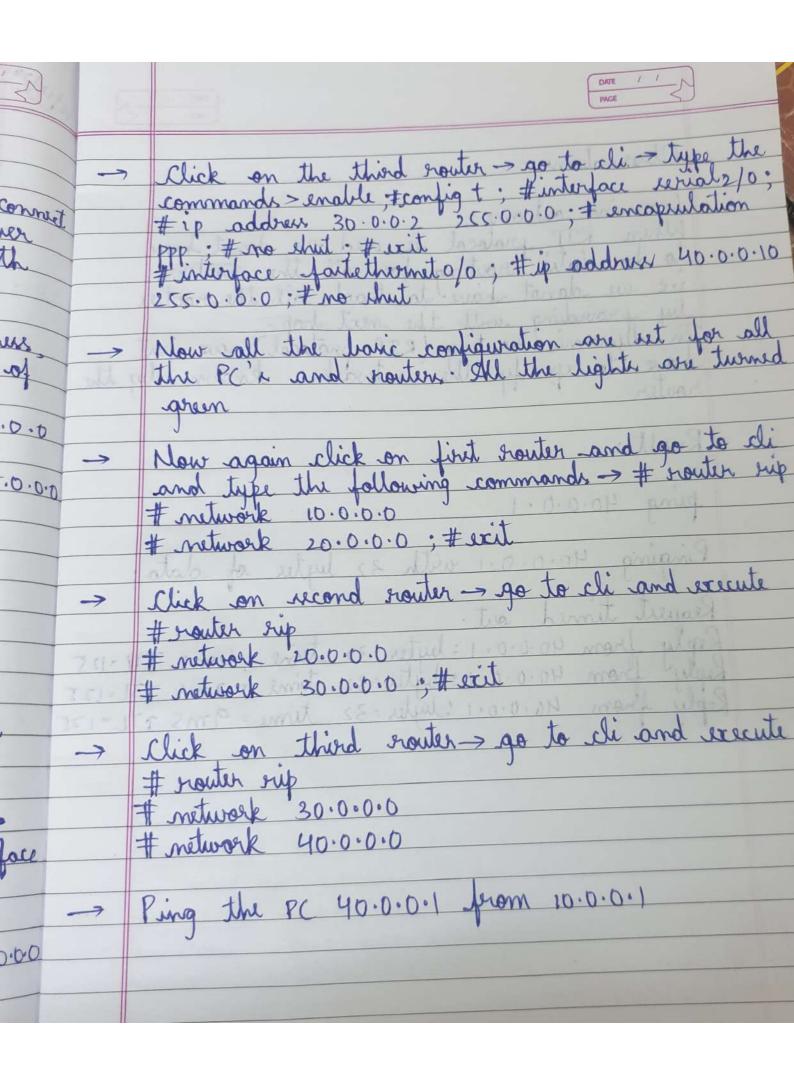
10.0.0.10 25t.0.0.0; # no shate; # recit;

255.0.0.0; # encapsulation ppp; # clock rate

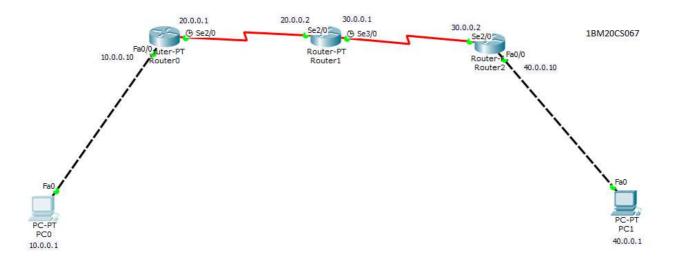
64000; # no shut

Click on the second router -> go to scli->

tune the command > enable of continuents. type the commands > enable; # configt; #interface levial 2/0; # ip address 20.0.0.0 2 250.0.0.0; # encapsulation ppp; # no shut; # exit # interface serial 3/0; # ip address 30.0.0.1 255.000 ; # encapsulation ppp; # clock nate 64000; # no



Observation: to do etatic routing for all the nouters
i.e we donot have to teach all the routers
by providing with the next hop.
In dynamic routing (RIP protocol) we just
have to specify the networks known by nouter. a Ruelthing return triet no sails moon wall ping 40.0.0.1 Pinging 40.0.0.1 with 32 legter of Reply from 40.0.0.1: lutter=32 time = 4ms TTL-125
Reply from 40.0.0.1: lutter=32 time = 2ms TTL-125
Reply from 40.0.0.1: Lutter=32 time = 9ms TTL-125 1.0.0.0.01 more 1.0.0.01 09 2dt pain



```
Router>enable
Router$config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)*interface serial2/0
Router(config)*jinterface serial2/0
Router(config-if)*pin address 30.0.0.2 255.0.0.0
Router(config-if)*pin shut
Router(config-if)*po shut
Router(config-if)*pin address 40.0.0.10 255.0.0.0
Router(config-if)*pin shut
Rout
```

Continue with configuration dialog? [yes/no]: no

Router(config-router) #exit Router(config) #

```
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=2ms TTL=125

Reply from 40.0.0.1: bytes=32 time=6ms TTL=125

Reply from 40.0.0.1: bytes=32 time=7ms 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 = 2ms, Maximum = 7ms, Average = 5ms

PC>
```

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