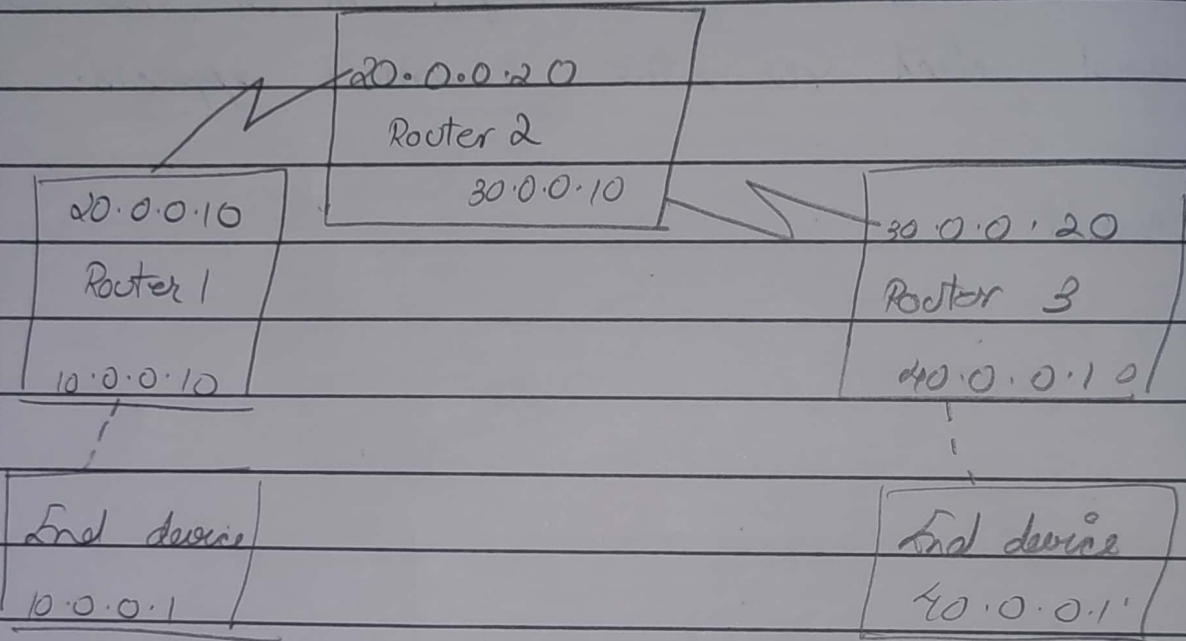


Exp-6

Aim: Configure RIP routing protocol in routers.

Topology:



Procedure:

- ① Connect 3 routers and 2 end devices
- ② design IP addresses to both end devices.
design IP addresses to all routers. Use the following commands

Router > enable

Router # config t

Router(config) # interface fast ethernet 0/0

Router(config-if) # ip address 10.0.0.10 255.0.0.0

Router(config-if) # no shut

Router(config-if) # exit.

④ Set gateways to end devices

End device 1 : 10.0.0.10

End device 2 : 40.0.0.10

⑤ Assign routes to all routers and in the configure mode use the following commands.

Router (config) # router rip

Router (config-router) # network <network address>

Router (config-router) # network <network address>

For router 1,

Router (config) # router rip

Router (config-router) # network 10.0.0.0

Router (config-router) # network 20.0.0.0

⑥ Ping end devices to test connection

Result:

> ping 10.0.0.1

Pinging 10.0.0.1 with 32 bytes of data :

~~Request timed out~~

Reply from 10.0.0.1 : bytes=32 time=5ms TTL=125

Reply from 10.0.0.1 bytes=32 time=5ms TTL=125

Reply from 10.0.0.1 bytes=32 time=21ms TTL=125

Ping statistics for 10.0.0.1:

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

Date : _____

Approximate round trip times in milli-seconds
Minimum = 2ms, Maximum = 21ms, Average = 10ms

Observation:

Routing Information Protocol is a dynamic routing protocol that uses hop count as routing metric to find best path between source and destination networks. Hop count is the number of routers occurring in between source and destination networks.

