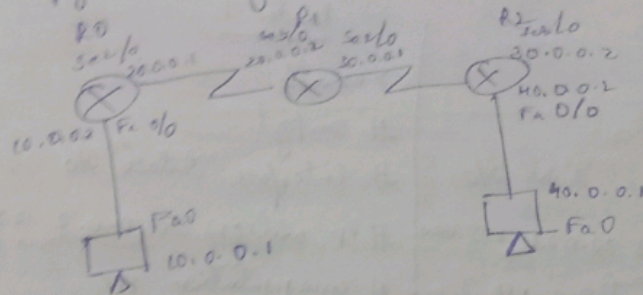


Obj: Configure Routing Information Protocol



Procedure

- set up network using 3 routers and 2 end devices by connecting the routers to router via serial DCE cable and number of to end devices using copper iron-cable.
- configure IP address of end devices
- configure IP address of fastethernet interface of router

Command (router)

>enable

config t

interface FastEthernet 0/0

ip address 10.0.0.2 255.0.0.0

no shutdown

exit

Router 2

>enable

config t

interface FastEthernet 0/0

ip address 40.0.0.2 255.0.0.0

no shutdown

exit

→ Config IP address & routers

Router 0

```
>enable
# config t
# interface serial 2/0
# ip address 20.0.0.1 255.0.0.0
# encapsulation ppp
# clock rate 64000
# no shutdown
# exit
```

Router 2

```
>enable
# config t
# interface serial 3/0
# ip address 30.0.0.2 255.0.0.0
# no shutdown
# exit
```

→ connect the networks

Router 0

```
>enable
# config t
# router rip
# network 10.0.0.0
# network 20.0.0.0
# exit
```

ab.

Router 1

```
>enable
# config t
# router rip
# network 20.0.0.0
# network 30.0.0.0
# exit
```

Router 2

```
>enable
# config t
# router rip
# network 30.0.0.0
# network 10.0.0.0
# exit
```


Observation? RIP is a dynamic routing protocol that uses hop count as a routing metric to find the best path between the source and destination.

PC > ping 10.0.0.1

Pinging 10.0.0.1 with 32 bytes of data: time = 23ms TTL = 125

Reply from 10.0.0.1: bytes = 32 Time = 11ms TTL = 125

Reply from 10.0.0.1: bytes = 32 Time = 2ms TTL = 125

Reply from 10.0.0.1: bytes = 32 Time = 15ms TTL = 125

Ping statistics:

Packets: sent = 4, Received = 4, lost = 0 (0% loss)

Approx round trip time

min = 2ms

max = 23ms

Avg = 14ms