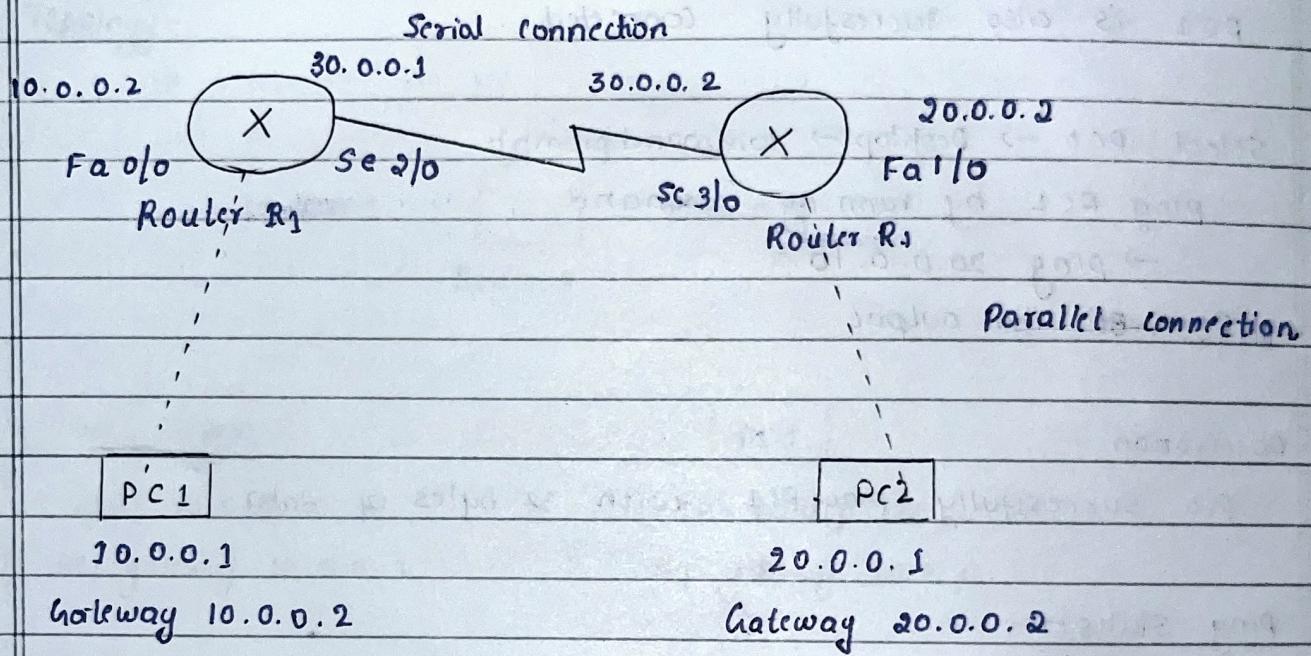


16/10/2024 Lab-3.

Router and End devices

Devices used : 2 routers and 2 end devices

Topology :



Procedure

- Select a generic router R1
- Connect an end device PC1 to router R1 through parallel connection. fastethernet 0/0:
- Configure PC1 with ip address 10.0.0.1 and gateway 10.0.0.2
- Similarly select another generic router R2 and connect an end device PC2. fastethernet 1/0.
- Configure PC2 with ip address 20.0.0.1 and gateway 20.0.0.2

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Scanned by CamScanner

NOW Select router R1 go to CLI and execute the following

Router > enable

Router # configure terminal

Router (config) # interface FastEthernet 0/0

Router (config-if) # ip address 10.0.0.2 255.0.0.0

Router (config-if) # no shutdown

"Interface FastEthernet 0/0, changed state to up"

Hence the connection b/w Router & end devices is established.

Now connect router R1 with router R2 using serial cable.

(serially connected)

To setup connection b/w routers again,

- Select router R1 and go to CLI.

Router (config) # interface serial 2/0

Router (config-if) # ip address 30.0.0.1 255.0.0.0

Router (config-if) # no shutdown

- Select router R2 and go to CLI.

Router (config) # interface serial 3/0

Router (config-if) # ip address 30.0.0.2 255.0.0.0

Router (config-if) # no shutdown

"Interface Serial 2/0 changed state to up"
3/0

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Observations: strong < medium

- After setting up the mentioned topology.
Now try to ping PC2 with PC1.
open command prompt for PC1 type ping 20.0.0.1
Destination host unreachable
packets sent : 4 Received : 0 lost : 40% loss = 100%.

It is also observed that the end system PC1 was only pinged with router R1 only.

ping 30.0.0.1 → successful

packets sent : 4 Received : 4 lost : 0 lost = 0%.

✓
23/10/24

IT is of long as much longer -

the link speed is (medium) much

packets are more reaching of it (high) much

available on it (high) then