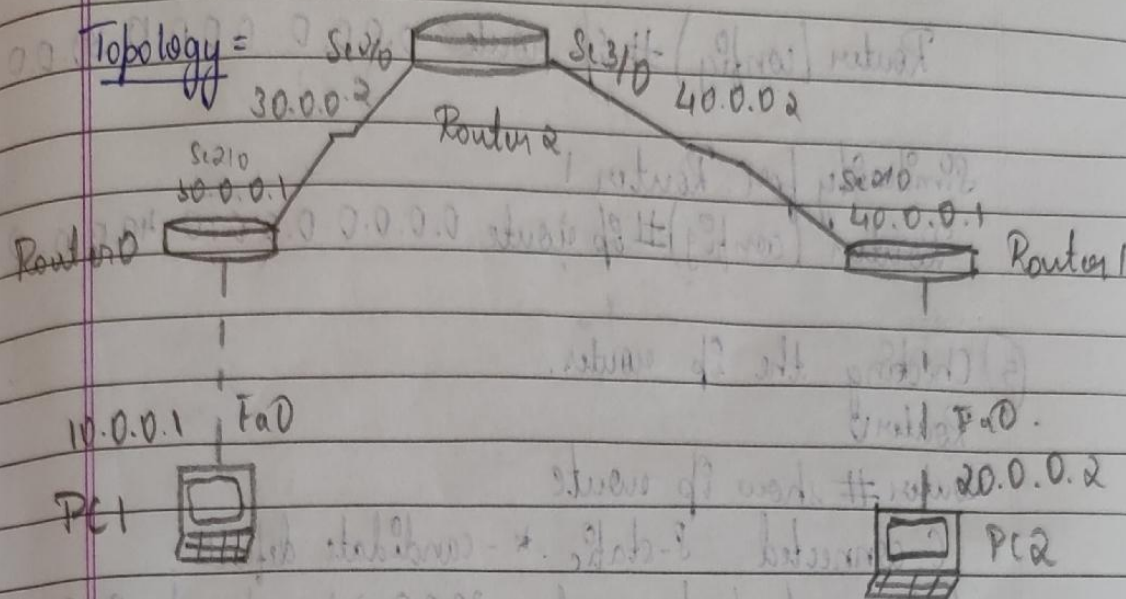


Aim = To Configure default & static route to router



Procedure = ① Drag and drop 2 PC's & 3 routers from the devices. Connect each PC to one router and the extra router to the both routers.

② Set IP addresses of PC1 → 10.0.0.1, PC2 → 20.0.0.1.  
Set the Gateway as 10.0.0.2 & 20.0.0.2.

③ Configure the ports in Router 0 & 1.

Router > enable

Router # config t

Router (config) interface fastEthernet 0/0

Router (config-if) # ip address 10.0.0.2 255.0.0.0

Router (config-if) # no shut

Router (config-if) # exit

Router (config-if) # interface Serial 2/0

Router (config-if) # ip address 30.0.0.1 255.0.0.0

Router (config-if) # no shut

Router (config-if) # exit.



Similarly for Router 2

④ Next we have to perform default routing

Router (config) # ip route 0.0.0.0 0.0.0.0 30.0.0.2

Similarly for Router 1

Router (config) # ip route 0.0.0.0 0.0.0.0 40.0.0.2

⑤ Checking the ip route.

Router 0

Router # show ip route

C-connected S-static \* - candidate default

Gateway of last route = 30.0.0.2 to network 0.0.0.0

C 10.0.0.0/8 is directly connected, FastEthernet 0/0

C 30.0.0.0/8 is directly connected, Serial 2/0

S\* 0.0.0.0/0 [1/0] via 30.0.0.1

Router 1:

Router # show ip route

C-connected S-static \* - candidate default

S 10.0.0.0/8 [1/0] via 30.0.0.1

S 20.0.0.0/8 [1/0] via 40.0.0.1

C 30.0.0.0/8 directly connected, Serial 2/0

C 40.0.0.0/8 directly connected, Serial 3/0

Output:

Ping Output:

PC > ping 10.0.0.1

ping 10.0.0.1 with 32 bytes of data

Reply from 10.0.0.1: bytes=32 time=4ms TTL=125

Reply from 10.0.0.1: bytes=32 time=16ms TTL=125

Reply from 10.0.0.1: bytes=32 time=17ms TTL=125

Reply from 10.0.0.1: bytes=32 time=25ms TTL=125

Ping Statistics for 10.0.0.1

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss)

Approx round trip times

Minimum = 4ms, Max = 25ms, Avg = 16ms

Observation

Observation = We can observe that the default and static routing both can be done.

10/10  
17/17  
123



## Command Prompt



Packet Tracer PC Command Line 1.0

PC>ping 30.0.0.1

Pinging 30.0.0.1 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

Request timed out.

Ping statistics for 30.0.0.1:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

PC>ping 30.0.0.1

Pinging 30.0.0.1 with 32 bytes of data:

Reply from 30.0.0.1: bytes=32 time=9ms TTL=125

Reply from 30.0.0.1: bytes=32 time=9ms TTL=125

Reply from 30.0.0.1: bytes=32 time=14ms TTL=125

Reply from 30.0.0.1: bytes=32 time=10ms TTL=125

Ping statistics for 30.0.0.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 9ms, Maximum = 14ms, Average = 10ms

PC>