

Default IP address LAB-3.

Topology Similar to that of Lab-2 that contains 3 routers & PC's connected as shown in that

Procedure:

- Select PC's and router and configure them with suitable IP address.
- Make connections to all the devices using suitable connection links.
- For the routers to link between PCs and other routers, use CL2 mode and start typing the commands.
- Now enter. Enable → Enter.
- Config T enter
- ~~En~~ Interface fast ethernet 0/0
- IP address 10.0.0.10 255.0.0.0
- Now shut

Repeat this step similarly to all the routers in order to make default path.

→ Type . in config T

→ IP route Destination Subnet Mask Intermediate device.

→ IP router 0.0.0.0 0.0.0.0 20.0.0.10.

Similarly perform this to all the routers

→ Show IP route enter

10.0.0.0/8 is directly connected to fast ethernet 0/0

20.0.0.0/8 is directly connected serial 2/0  
0.0.0.0/0 [1/0] via 20.0.0.10

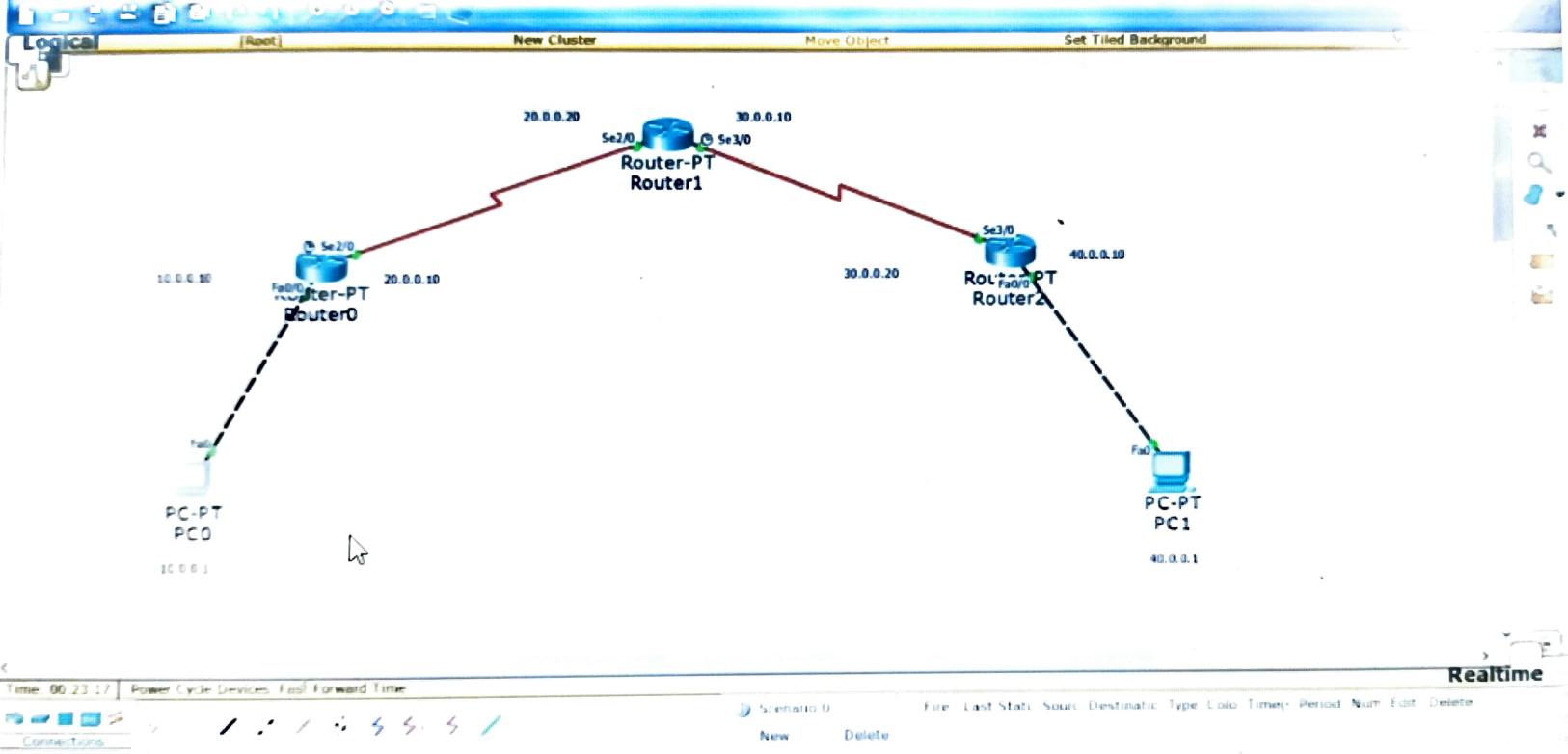
Similarly all the routers are connected.

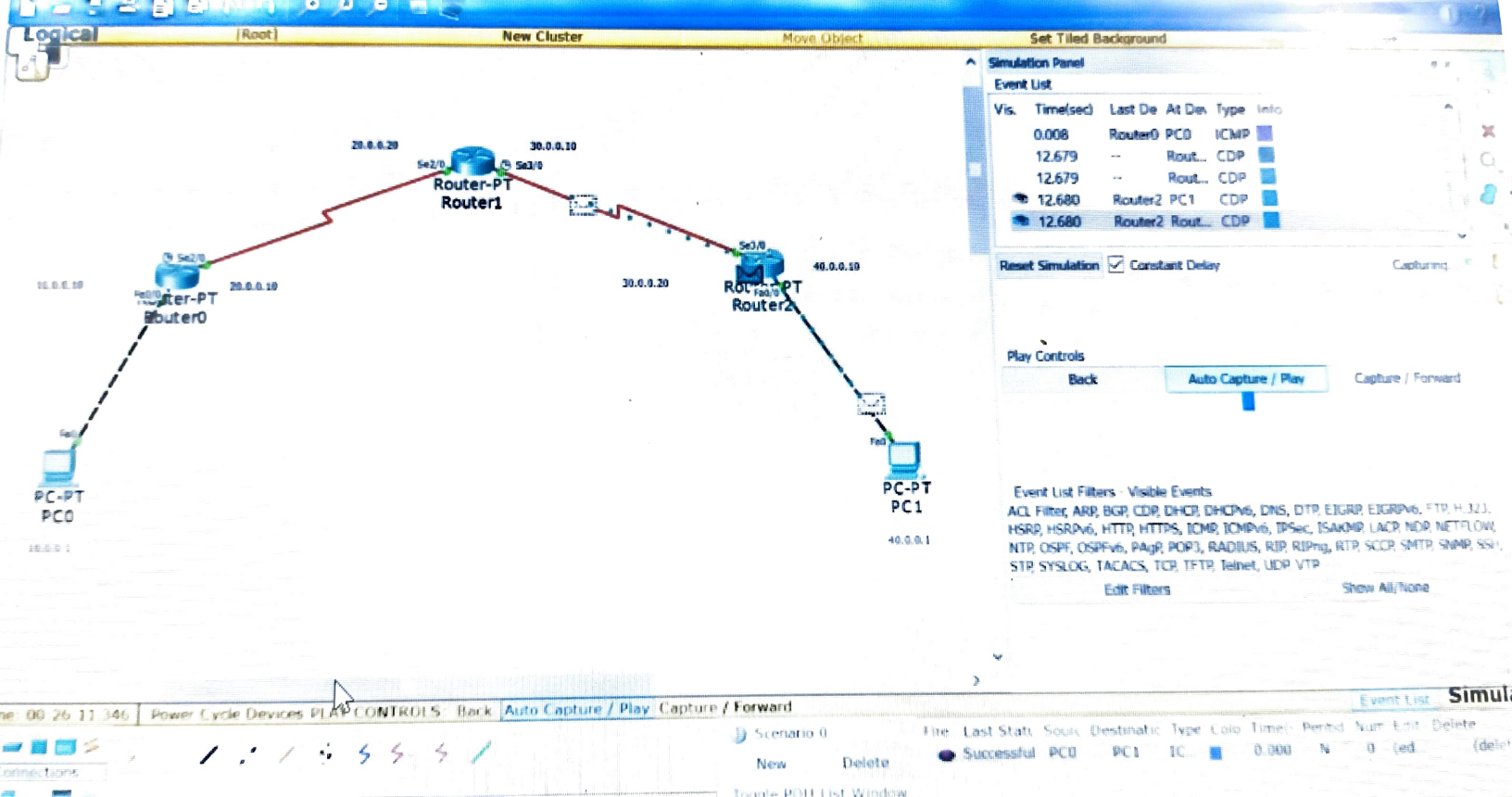
Observation:

In the previous one, we have given the IP address to all the routers with destination subnet, and intermediate IP address of those particular device, but here in this experiment we use a default IP address is 0.0.0.0 and subnet Mask 0.0.0.0 so that it can create a pass through channel to all the packets that are sent will be transferred by the intermediate device. This is generally used in large no of device connection.

Topology:

17/8







## Command Prompt

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=16ms TTL=125

Reply from 40.0.0.1: bytes=32 time=2ms 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 = 16ms, Average = 6ms

PC>ping 40.0.0.1

Pinging 40.0.0.1 with 32 bytes of data:

Reply from 40.0.0.1: bytes=32 time=21ms TTL=125

Reply from 40.0.0.1: bytes=32 time=9ms TTL=125

Reply from 40.0.0.1: bytes=32 time=2ms TTL=125

Reply from 40.0.0.1: bytes=32 time=4ms TTL=125

Ping statistics for 40.0.0.1:

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

Approximate round trip times in milli-seconds:

Minimum = 2ms, Maximum = 21ms, Average = 9ms

PC>