

Program-2

Configure IP address to routers in packet tracer. Explore the following messages: ping responses, destination unreachable, request timed out, reply

Topology, Procedure and Observation:

LAB-2

Aim: To connect to 2 PCs with 2 different routes using router.

Topology:

```
graph TD
    Router[Router-PT  
Router-0] ---|Fa 0/0| PC0[PC-PT  
PC0  
10.0.0.0.2]
    Router ---|Fa 1/0| PC1[PC-PT  
PC1  
10.0.0.0.3]
```

Procedure:

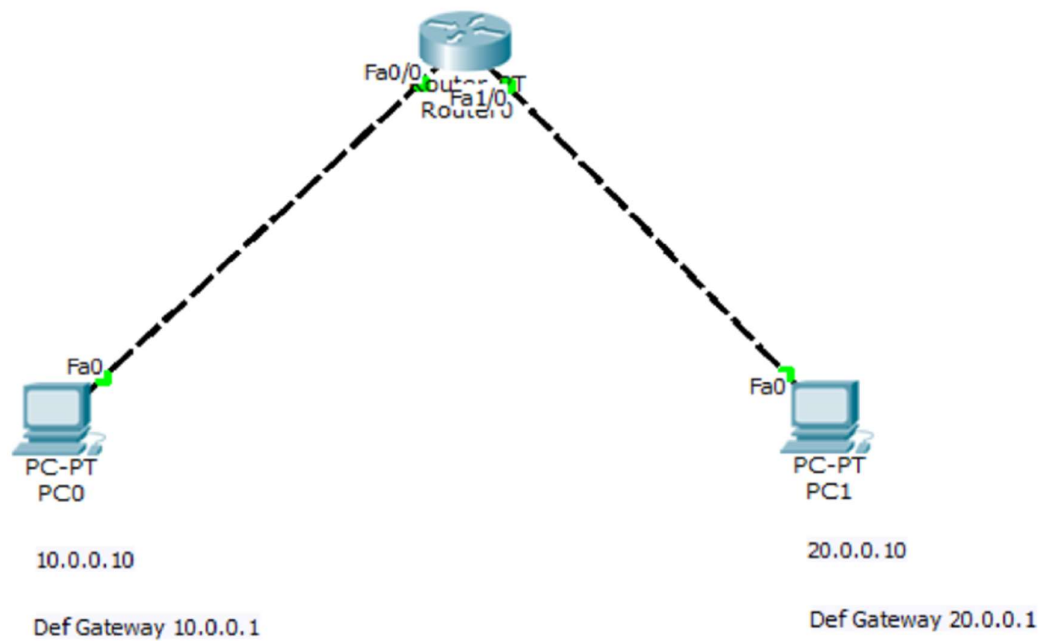
- Add 2 PCs and 1 generic router.
- Connect PC to router using cable-one wire.
- Set up IP addresses, gateway, subnet mask of both the PC's (in fast ethernet & settings)
- In router set up its IP address (both-based on I/O, 0/0)
- Open CLI of router & type:
Continue without configuration dialog? n
Router # enable
Router # config terminal
Router (config) # interface fast ethernet 0/0
Router (config) # ip address 10.0.0.10 255.0.0.0
Router (config) # no shutdown.
exit
do the same for other fast ethernet I/O.
- Click on PC → PC0 → desktop → command prompt.
type ping 20.0.0.1 (this sends packet PC0 to PC1)

Observation: This sends 32 bytes of data (sent=4, lost=1)

In router CLI

```
Router (config) # exit
Router # show ip route
c 10.0.0.0 0/8 9s directly connected, fast ethernet 0/0
c 20.0.0.0 0/8 9s directly connected, fast ethernet 1/0
```

Screenshots:



PC0

Physical Config Desktop Custom Interface

Command Prompt

```
Pinging 20.0.0.10 with 32 bytes of data:

Request timed out.
Reply from 20.0.0.10: bytes=32 time=0ms TTL=127
Reply from 20.0.0.10: bytes=32 time=0ms TTL=127
Reply from 20.0.0.10: bytes=32 time=0ms TTL=127

Ping statistics for 20.0.0.10:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```