

2) Config IP address to routers in packet tracer. Explore the following msg: ping responses, destination unreachable, request timed out, reply

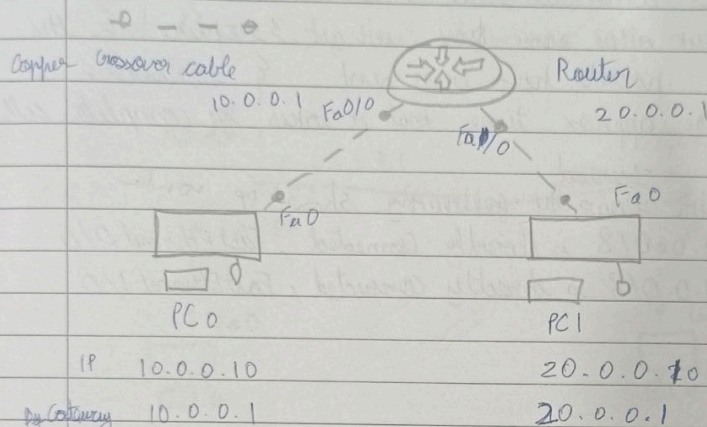
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Single Router

Connect 2 PC ^{using} to router

Aim: To demonstrate the connection between two ~~PCs~~ ~~router~~ and ~~can~~ end devices in two different networks using the router.



Procedure

- 1) Open Cisco packet tracer.
- 2) Add the end devices & the router from the left hand icon menu.
- 3) Connect the device: use a copper crossover cable to connect each PC to the router.
- 4) ip config on each device → go to config → fast ethernet enter IP

PC0	10.0.0.10	255.0.0.0
PC1	20.0.0.10	255.0.0.0

change gateway

PC0	10.0.0.1
PC1	20.0.0.1

- 5) Router config → go to cli → Enter the following commands
 No → Enable → config terminal → interface fastethernet 0/0 →
 ip address 10.0.0.1 255.0.0.0 → no shutdown → exit
 (repeat for second device) output Show IP Route.

- 6) Setup is complete.

C 10.0.0.0/8 is directly connected, fastethernet 0/0
 C 20.0.0.0/8 is directly connected, fastethernet 1/0

7) Select a device → go to desktop → command prompt → ping (if of second device)

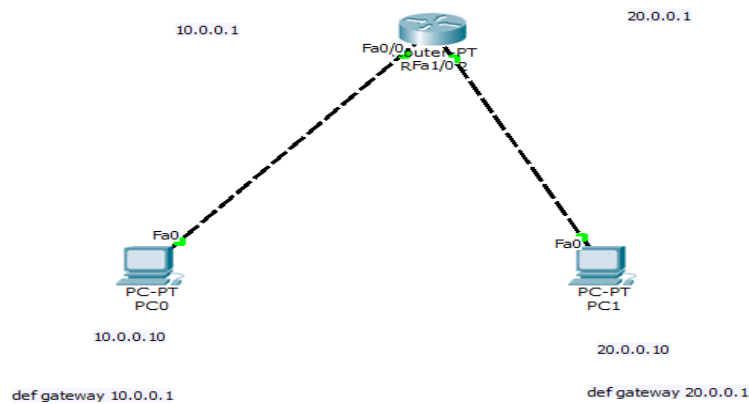
Discussion

We observe that initially when the ping request is sent we get a time out error (Router localis the second device) but after some time we get 3 replies & the msg that packets have been sent & received. & displays the approx time that it takes to complete all this.

Routing table shows the following show ip route

C 10.0.0.0/8 is directly connected, FastEthernet 0/0
C 20.0.0.0/8 is directly connected, FastEthernet 1/0

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PC0

Physical Config Desktop Custom Interface

Command Prompt

```
Packet Tracer PC Command Line 1.0
PC>ping 20.0.0.10

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

PC>ping 20.0.0.10

Pinging 20.0.0.10 with 32 bytes of data:

Reply from 20.0.0.10: bytes=32 time=0ms TTL=127
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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 = 4, Lost = 0 (0% loss),
```

PC2

Physical Config Desktop Custom Interface

Command Prompt

```
Packet Tracer PC Command Line 1.0
PC>ping 10.0.0.10

Pinging 10.0.0.10 with 32 bytes of data:

Request timed out.
Reply from 10.0.0.10: bytes=32 time=0ms TTL=127
Reply from 10.0.0.10: bytes=32 time=0ms TTL=127
Reply from 10.0.0.10: bytes=32 time=0ms TTL=127

Ping statistics for 10.0.0.10:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

PC>|
```