

9/10/2024

Week-2(Experiment 2a)

Observation Book:

exp-1
Router Configuration :-
LAB-02
9/10/2024

Aim: To connect 2 PC's with 2 different routes using a router.

Topology:

Router2

PC-PT1
10.0.0.2
def gateway: 10.0.0.1

PC-PT2
20.0.0.2
def gateway: 20.0.0.1

Procedure:

- Add 2 PCs and one generic router on the workspace
- Give the PCs an IP address and default gateway
- Let one PC be connected to the Router through a copper cross over each.
- click on the router and go to the CLI command continue with configuration dialog? n.

```
Router# enable
Router# config terminal
Router(config-if)# interface FastEthernet 0/0
Router(config-if)# ip address 10.0.0.1 255.0.0.0
Router(config-if)# no shutdown
Router(config-if)# exit.
```

→ same for the other Ethernet 1/0

→ for PC0, in Desktop, in command prompt,
PC>ping 20.0.0.2 // this sends packets from PC0 to PC1

(This sends 32 bytes of data)

└ packets: sent = 4

Received = 3

Lost = 1. (25% loss).

→ To get the information about the Ethernets connected

└ in Router → CLI

```
Router(config)# exit
```

```
Router# show ip route
```

└ (C/P) → C 10.0.0.0/8 is directly connected, FastEthernet 0/0

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

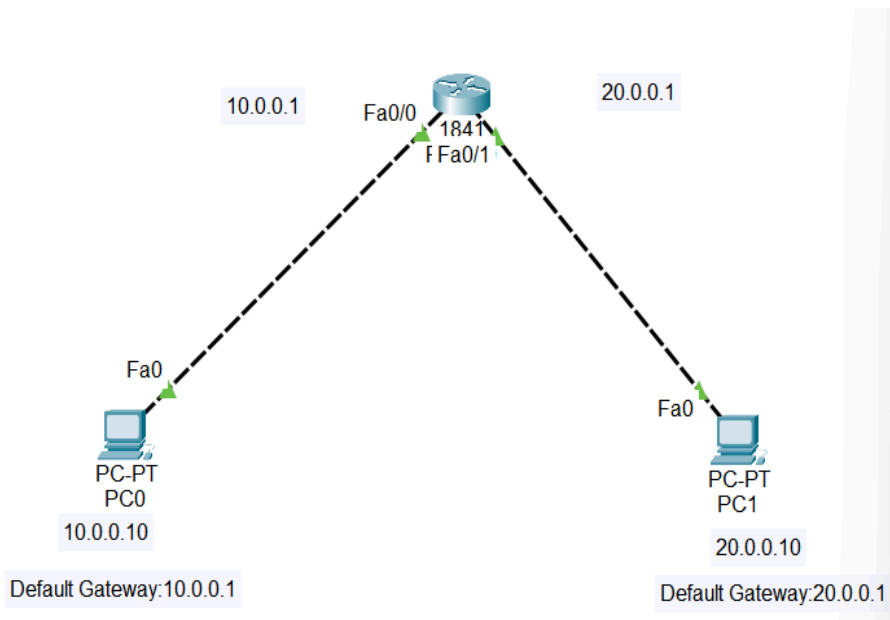
* Observation:-

The buttons on the copper cross over turned green

→ from PC0 to PC1, packets sent were 4,
Received were 3, and Lost = 1.

→ from PC1 to PC0, packets sent were 4,
Received were 4, and Lost = 0.

Topology:



Output:

```
PC0
Physical Config Desktop Programming Attributes
Command Prompt X
Cisco Packet Tracer PC Command Line 1.0
C:\>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<1ms TTL=127
Reply from 20.0.0.10: bytes=32 time=11ms TTL=127
Reply from 20.0.0.10: bytes=32 time<1ms 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 = 11ms, Average = 3ms

C:\>|
```