

Program 2

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

Topology , Procedure and Observation:

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Experiment 2

1. Aim:
To connect 2 PCs with 2 different routes using Router

Topology:

10.0.0.4 20.0.0.4

Fa0/0, Router-PT Fa1/0
Router0

PC-PT
PC0
10.0.0.1

PC-PT
PC1
20.0.0.1

Procedure:

- Add 2 PCs and 1 generic router
- Connect PC to router using cross-overs wire
- Set up IP address, gateway, subnet mask of both the PCs (in fastEthernet & settings gateway)
- In router set up its IP address (both-based on 0/0, 1/0)
- Open CLI of router and type

continue with configuration dialog ? no

Router # enable

Router # config terminal

Router (config) # interface FastEthernet 0/0

Router (config-if) # ip address 10.0.0.1 255.0.0.0

Router (config) # no shutdown
exit

do the same for the other FastEthernet 1/0

(vi) Click on PC-PC0 → Desktop → Command Prompt, type ping 20.0.0.1 (this sends packet from 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 10.0.0.0/8 is directly connected, FastEthernet 0/0

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

Screen Shots:

