

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:

Router (config) # exit
Router # show ip route
C 10.0.0.0/8 is directly connected, Fast Ethernet 0/0
C 20.0.0.0/8 is directly connected, Fast Ethernet 1/0

LAB-2
experiment-2

aim :- configure IP address to routers in packet tracer.
Explore the following messages: ping responses,
destination unreachable, request time out, reply.

Topology:-

30.0.0.1
10.0.0.2
30.0.0.2
20.0.0.2
20.0.0.1

Procedure:-

- (1) Create a 2 network of 10.0.0.0 and 20.0.0.0 by connecting a end device to the router.
- (2) Set up IP address, gateway, subnet mask of both networks.
- (3) In router set up its IP address (fast ethernet).
- (4) Set up another network 30.0.0.0 by connecting the 2 routers.

ION
Commands : for router in CLI.

Router # enable
Router # config terminal
Router (config) # interface fast Ethernet 0/0
Router (config) # no shutdown
exit
do the same for router 2.

Output :- Ping 20.0.0.1 .

Pinging 20.0.0.1 with 32 bytes of data:

Reply from 20.0.0.3: Destination host unreachable .

Reply from 10.0.0.3: Destination host unreachable .

Request time out.

Ping statistics for 20.0.0.2:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

Ping 20.0.0.2

Pinging 20.0.0.2 with 32 bytes of data:

Reply from 10.0.0.3: Destination host unreachable

Request time out.

Ping statistics for 20.0.0.2:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss).

Ping 10.0.0.3

Pinging 10.0.0.3 with 32 bytes of data:

Reply from 10.0.0.3: bytes = 32 time = 0 ms TTL = 255

Ping statistics for 10.0.0.3:

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


Approximate Round Trip Times in ms:-
Min = 0 ms, max = 0 ms, Avg = 0 ms.

10

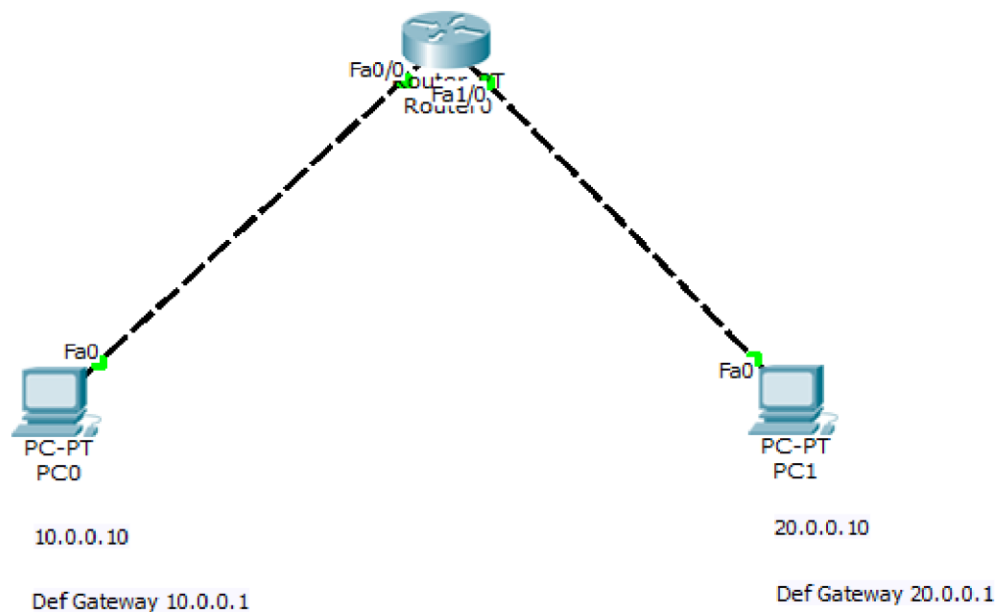
$TTL = 225$

TTL 2225

20 (0900H)



Screenshots:



PC0

Physical Config Desktop Custom Interface

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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

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
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 = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

PC>
```