

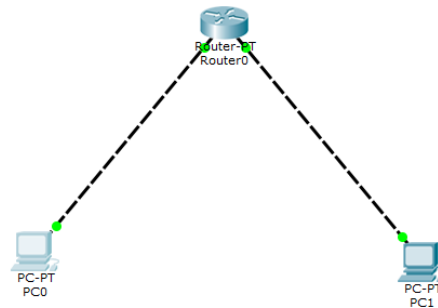
Week 2

EXPERIMENT 2

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

TOPOLOGY:



OUTPUT WITHOUT SETTING DEFAULT GATEWAY:

```
Packet Tracer PC Command Line 1.0
PC>ipconfi
Invalid Command.

PC>ipconfig

FastEthernet0 Connection: (default port)

    Link-local IPv6 Address.....: FE80::201:42FF:FE80:86E3
    IP Address.....: 10.0.0.10
    Subnet Mask.....: 255.0.0.0
    Default Gateway.....: 0.0.0.0

PC>ping 20.0.0.10

Pinging 20.0.0.10 with 32 bytes of data:

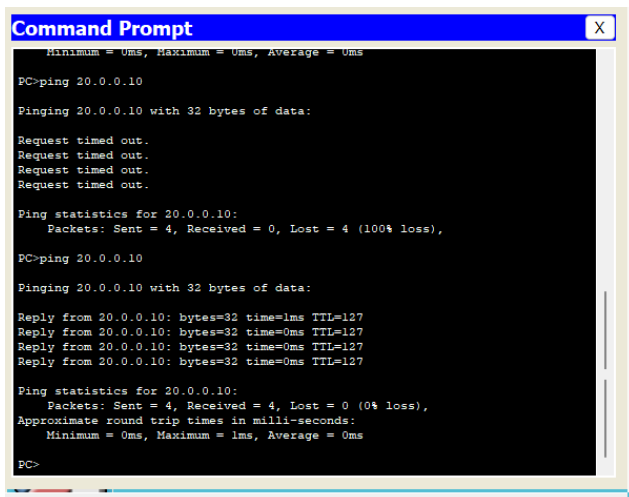
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 20.0.0.10:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

PC>
```

The screenshot shows the 'PC0' window in Packet Tracer. The 'Config' tab is selected. A 'Command Prompt' window is open, displaying the results of several commands. The 'ipconfi' command is invalid. The 'ipconfig' command shows the network configuration for the FastEthernet0 interface, including a link-local IPv6 address, IP address 10.0.0.10, subnet mask 255.0.0.0, and a default gateway of 0.0.0.0. The 'ping 20.0.0.10' command is executed, showing four 'Request timed out' messages and a final ping statistics summary indicating a 100% loss of packets.

OUTPUT AFTER SETTING DEFAULT GATEWAY:



```
Command Prompt
Minimum = 0ms, Maximum = 0ms, Average = 0ms

PC>ping 20.0.0.10

Pinging 20.0.0.10 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 20.0.0.10:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

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=1ms 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 = 1ms, Average = 0ms

PC>
```

OUTCOMES:

- 1.Ping Responses: The configured IP address of the destination device is correct and the network connection is functioning properly thus, we receive a successful ping response. This indicates that the destination device is reachable and responsive.
- 2.Without setting default gateway for the end devices :Request Timed Out-
"Request Timed Out" message : thus-the router sent a request but did not receive a response within a specific time frame.
- 3.After setting default gateway for end devices- Reply from: 4 "Reply from..32 bytes" messages are seen. Router has received a valid message or request and thus it generates a reply to acknowledge the receipt. A reply message confirms that the communication is established and the router is functioning properly.

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