

WEEK-2

2. Configure IP address to routers in packet tracer. Explorer the following messages: ping responses, destination unreachable, request timeout, reply.

Lab-02

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Aim: →

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

Steps → Procedure →

1. Connect the PCs to router
option 1: Wired connection
 - Use copper crossover to connect both PC to router.
2. Config IP address settings
For the PC0 → 10.0.0.1
for the PC1 → 20.0.0.1
3. Router's default gateway.
 - To Configure IP setting, you'll need to access to the router.
Give FastEthernet 0/0 → 10.0.0.2
FastEthernet 1/0 → 20.0.0.2
 - In the command prompt,
type following commands,
 1. enable
 2. config terminal
 3. interface fastEthernet 0/0
 4. IP address 10.0.0.2 255.0.0.0
 5. no shutdown

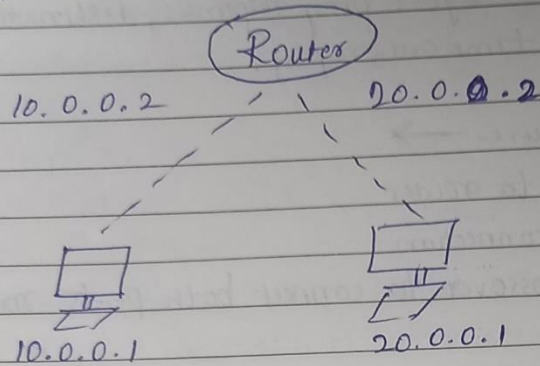
Follow these commands for fastEthernet 1/0.

- set the gateway both PCs.

4. Ping the PCs.

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

Topology →

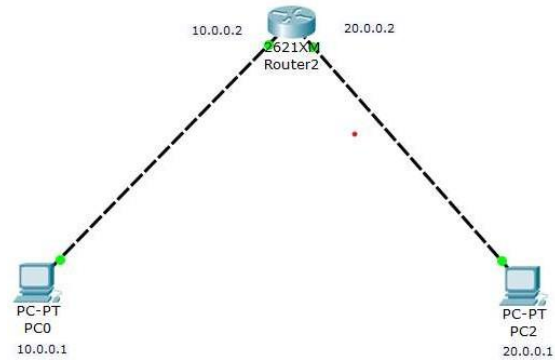


Observation →

The packets send from one pc to another pc through the router once you ping in command line.

✓

ROUTER:



PING RESPONSES:

```
Packet Tracer PC Command Line 1.0
C:\>ping 10.0.0.1
```

```
Pinging 10.0.0.1 with 32 bytes of data:
```

```
Reply from 10.0.0.1: bytes=32 time=1ms TTL=127
Reply from 10.0.0.1: bytes=32 time=1ms TTL=127
Reply from 10.0.0.1: bytes=32 time=3ms TTL=127
Reply from 10.0.0.1: bytes=32 time=1ms TTL=127
```

```
Ping statistics for 10.0.0.1:
```

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

```
C:\>ping 20.0.0.1
```

```
Pinging 20.0.0.1 with 32 bytes of data:
```

```
Reply from 20.0.0.1: bytes=32 time=1ms TTL=127
Reply from 20.0.0.1: bytes=32 time<1ms TTL=127
Reply from 20.0.0.1: bytes=32 time<1ms TTL=127
Reply from 20.0.0.1: bytes=32 time<1ms TTL=127
```

```
Ping statistics for 20.0.0.1:
```

```
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

```
enable
Router#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface fastEthernet0/1
Router(config-if)#ip address 20.0.0.2 255.0.0.0
Router(config-if)#no shutdown
Router(config-if)#exit
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
enable
Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

C    10.0.0.0/8 is directly connected, FastEthernet0/0
C    20.0.0.0/8 is directly connected, FastEthernet0/1
```