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

- O Cappet the 2 Pc's and Router from the end device. Set the IP address of 2 Pc's as 10.0.0.1 and 20.0.0.1. This indicate they belong to different networks. Set the galeway of 1st Pc as 10.0.0.2 and 2nd pc 20.0.0.2 and connect them to the router
- Of different network by using steps, below

Router > enoble

Router # config terminal

Router (config) # interface fort Ethernet 0/0

Router (config.) # ip address 10.0.0.2 255.0.0.0

Router (config.if) # exit

Router (config.if) # exit

Router (config.if) # ip address 20.0.0.1 255.00.0

Router (config.if) # no shut

Router (config.if) # no shut

Router (config.if) # exit

Router (config.if) # exit

Router (config.if) # exit

Router (config.if) # exit

(3) Send a simple PDU from Pro to PCI with its address 10.0.0.1 to 20.0.0.1 And Use ping command to verify the packets send and received. The packets will be

transmitted through the Rades

- (assign the Routel Collabing the above mentioned steps Now, Add another generic Power to connect these two existing routers. Configure the 3rd Routel following the same steps or above
- ping 30.0.0.1

  the response will be destination unreachable.

  Although, everything seems to be connected. Each Router will have information about network that are directly connected to the Router. It can check show ip route. We want to the Router. It can check using and teach the

Router about the other networks in the topday

- Router # config t

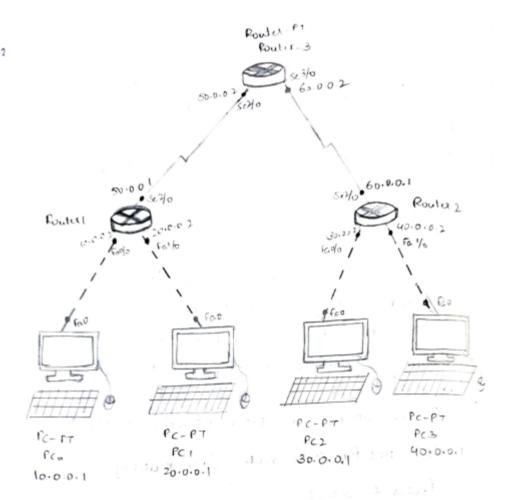
  Router (config) # ip route 30.0.0.0 255.0.0.0 \$0.0.0.2

  Router (config) # ip route 40.0.0.0 255.0.0.0 \$0.0.0.2

  Router (config) # ip route 60.0.0.0 255.0.0.0 \$0.0.0.2

  Router (config) # exit

  Router (config) # exit
- Toutel: Pouter # show op route we get
  - 6 10.0.0.018 (in directly connected, fortithizing %
  - c 20.0.0.0 /8 is directly connected, fortitheent 1/0
  - S 30.0.0.0/8[] via 50.0.0.2
  - 8 40.0.0.0/8 [ ] via 50.0.0.2
  - c 50.0.0.0/8 is directly connected, social 2/0
  - S 60.0.0.0/8 [] real 50.0.0.2



Output:

for Destination host unreachable

Pinging 0.0.0.1 with 32 byter of data:

Pinging 0.0.0.1 with 32 byter of data:

Pinging 10.0.0.1 with 32 byter of data:

Ping statistics - for 10.0.0.1:

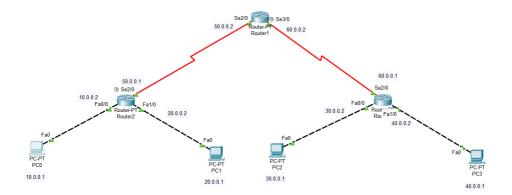
pockets: Sort = 4, Received = 0 : Lost = 4 (100% Loss)

```
For Reply:
           30.0.0.1 with 32 byter of data:
  Reply from 30.0.0.1: bytes=32 time = 7ms TTL=125
 Reply from 30.0.0.1: bytes: 32 time = 11ms TTL=125

Reply from 30.0.0.1: byte=32 time = 2ms TTL:125

Reply from 30.0.0.1: byte=32 time = 4ms TTL=125
         statistics for 30.0.0.1:
           packet: Sont = 4, Received = 4, Lost =0 (0% coss),
Approximate round trip times in milli-seconds:
          Minimum = 2ms, Maximum = 11ms, Average = 6ms
```

**TOPOLOGY for 3 routers** 



## OUTPUT

```
Physical Config Desktop Programming Attributes

Command Prompt

X

Packet Tracer PC Command Line 1.0
C:\>ping 30.0.0.1

Pinging 30.0.0.1 with 32 bytes of data:

Reply from 10.0.0.2: Destination host unreachable.

Request timed out.

Reply from 10.0.0.2: Destination host unreachable.

Reply from 10.0.0.2: Destination host unreachable.

Ping statistics for 30.0.0.1:

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

C:\>
```

```
C:\>ping 30.0.0.1
Pinging 30.0.0.1 with 32 bytes of data:

Reply from 30.0.0.1: bytes=32 time=11ms TTL=125
Reply from 30.0.0.1: bytes=32 time=2ms TTL=125
Reply from 30.0.0.1: bytes=32 time=24ms TTL=125
Reply from 30.0.0.1: bytes=32 time=2ms TTL=125
Ping statistics for 30.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 24ms, Average = 9ms
```