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Lab-2

Router

Config IP address to routers in packets tracker, explore the messages. ping responses, destination, unreachable, request timed out, reply. Aim: To demonstrate the connection blw two end devices

in two different networks using the router.

Router III alog 10.0.6.1. of Faolo Fathlo.

20.0.0.1

IP: 10.0.0.10

Def gateway

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Procedure:

Add the end devices and the router from the left hand 2). icen menu at explain a bovision to Jose need

Connect the device : use a copper crossover cable to connect each PC to the router.

duent the tolloring If config on each device -> go to config -> fact ethernet condition of 8 is directly connected.

enter IP

PCO: 10.0.0.10

PCI: 20.0.0.10 255.0.0.0.

beloomen albort 2 255.0.0.0

Change gateway

PCI: 20.0.0.1

- 5) Route Config → go to CII → Enter the following command

  ⇒ Enable → config terminal → interface fast ethernet Olay
  ip address 10.0.0.1 255.0.0.0 → no shutdown → exit

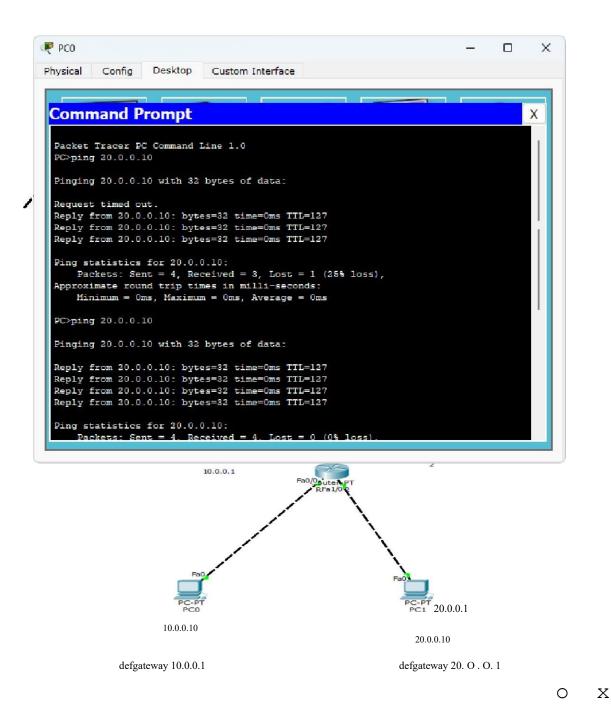
  (Repeat for second device).
- 6) Setup is complete
- 7) Select a device -> goto desktop -> command prompt, -> ping (same for second device).

## Observation:

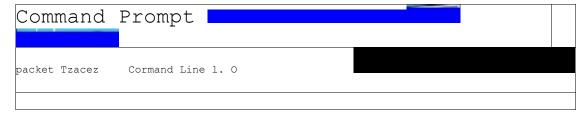
We observe that initially when ping request is sent we get a time out error (Router locates the second) but often some time we get 3 teplies of the message that packet have been sent a received a displays the approx time that it takes to complete all this.

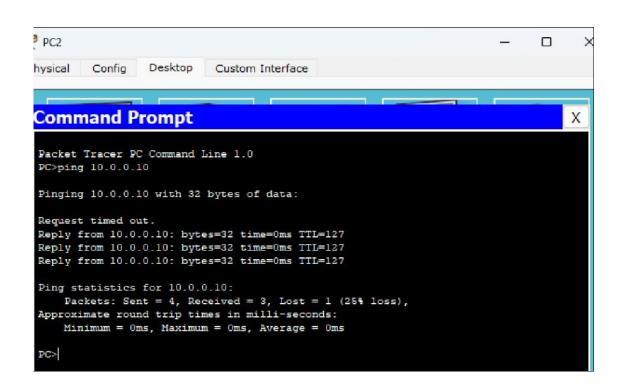
Routing table shows the following

Connected: 20.0.0.018 is directly connected, FastEthernet 1/0.



physicalConfig DesktopCustom Interface





```
Reply from 10.0.0.10: bytes=32 time=0ms TTL=127
Reply from 10.0.0.10: bytes=32 time=0ms TTL=127
Reply from 10.0.0.10: bytes=32 time=0ms TTL=127

Ping statistics for 10.0.0.10:

Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 0ms, Average = 0ms

PC>
```