LAB-2 17/11/22 Alm: Configuring IP address to Routers in Packet Tracer. Explore the following messages: Ping Responses, Destination insuachable, Request timed out, Reply. Topology: One-Router: Fao Fao PCI : 50.0.0.1 20.0.02 30.0.0.1 30.0 Se 2/0 Se 2/0 Se 2/0 Routero Routeron Router2 Lar godiash Fao R G. Perst party mester had any PC-PT 40.0.0.1

Perocedive :

- Due-Kouter

 → Place two generic Pc's and a generic growter

 and the mouter is connected to each of the

 Pc's with a copper cross wire. The connections will

 be read initially.
- -> Place the nodes for each of the PC's and each of the fast ethernet connections
- The Subnet mask as 10.0.0.1 and 255.0.0.0 and set the gateway as 10.0.0.10. Set the above values for PCI with the values corresponding to PCI
- configuration dialog enable config t interface (CLI) and do not continue with configuration dialog enable config t interface fastethernet 0/0 ip address 10.0.0.10 d55.0.0.0 -> no shut; the connection between souter and PCO turn green when the above process is repeated for the connection between souter and PCI that connection also turns green. Router table can be seen thising the command show ip now.
- -> After the connections turn green, a PC can be penged by click on the PC then selecting desktop and then select command prompt.

3-nouters:

- Place three generic monters and two generic

 PC's. First nonter is connected to the first PC

 and third nonter is connected to the second PC

 by a copper cross over wire and the three nonters

 are connected among each other with the Serial

 DCE cable. All the connections are read initially
- -> Place the nodes and the nonter and PC is connected through fast ethernet while the nonters are connected through Serial
- > tach of the PC is clicked and the IP address, Subnet mask and gateway is set for each of the PC with the corn esponding values

-> Router 1 is clicked > CLI > "no" > enable > configt > interface fastethernet 0/0 > ip address 10.0.0.10. 255.0.0.0> no shut - with these the first connection is estableshed.

config t > interjace serial 2/0 > ip address 20.0.0.10 255.0.0.0> no shut -> Second connection is established > Router 2 is clicked > CLI > "no" > enable > config t > interface Serial 2/0 > % address 10.0.0.2 255.0.0.0> no shut -> with these first connection is established. config t> interface Serial 3/0 > ip address 30.0.0.1 255.0.0,0 > no shut -> with these second connection & established. → After all the above steps all green lights are grown and when the PCI is pinged from PCO -> we get the reply, Destination unreachable -> when the nouter 20.0.0.2 is pinged by PCO the reply, request timed out is seen. The above replies are seen because the nonters are not trained for the non-connected LAN'S fonter 1 is trained by using ip noute 30.0.0.0 255.0.0.0 20.0.0.2 ip route 40.0.0.0 255.0.0.0 20.0.0.2 Router & is trained by ip noute 10.0.0.0 &55.0.0.0 &0.0.0.1 ip nonte 40.0.0.0 &55.0.0.0 30.0.0.2 Penglery Router 3 is frained by ip noute 10.0.0.0 255.0.0.0 30.0.0.1 ip route 20.0.0.0 255.0.0.0 Now, the correct neply is seen when PCI is pinged Observations: one-Router when so pings so for the first time we get bing 20.0.0.1 ping 20.0.0.1 Pinging 20.0.0.1 with 32 bytes of data: Request timed out Reply from 20.0.0.1: bytes = 32 time = 0 ms TTL= 127 Reply from 20.0.0.1: bytes = 32 time = 0 msTTL= 127 Reply from 20.0.0.1: bytes= 32 time = 0 ms TTL=127

Ping statistics for 20.0.0.1: Packets: Sent = 4, Received = 3, host = 1 (25% 1038) Approxlmate round trip times in ms Minimum = 0 ms, Maximum = 4ms, Average = 1ms

But when PCO pings PCI again or if PCI neverse pings PCO we get the output when where all the 4 times reply is observed

3-Routins:

Before the routers are trained and PCI is penged by PCO and Router 2 we get

ping 40.0.0.1

Penging 40.0.0.1 with 32 bytes of data:

Reply from 10.0.0.10: Destination host imreachable Reply from 10.0.0.10: Destination host imreachable Reply from 10.0.0.10: Destination host imreachable Reply from 10.0.0.10: Destination host imreachable

Pringing Statistics 40.0.0.1 Packets: Sent = 4 Received = 0 host = 4 (100%, Lors)

ping 20.0.0.2

Request timed out Request timed out Request timed out Request timed out

Pengeng statistics 20.0.0.2.
Packets: Sent=4 Received=0 Lost=4 (100%, Loss)

After the nonters are trained

ping 40.0.0.1

Penging 40.0.0.1 with 32 bytes of data

Request timed out

Reply from 40.0.0.1: bytes = 32 time = 2 ms TTL = 125 Reply from 40.0.0.1: bytes = 32 time = 2 ms TTL = 125 Reply from 40.0.0.1: bytes = 32 time = 2 ms TTL = 125

Pinging statistics for 40.0.0.1

Packets: Sent = 4 Received = 9 Loss = 1 (25 % Loss)











