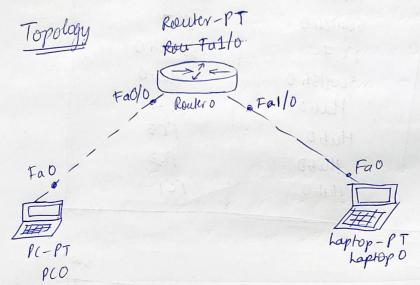
17-11-22 Lab-3

Configuring IP address to Router to Packet Tracen. Explore the following messages: Ping responses, Restination unreachable, Request timed out, Reply.



Routers are sophisticated multi-port devices. They operate at Network layer and care a Routing table to determine which path from Src to dest. should be selected

Procedure:

* Select 2 generic end devices from the & device-type selection box. We give source device IP address as 10.0.0.1 and 20.0.0.1 to the other device. Subject maste 255.0.0 * We then select a generic Router-PT and connect it to the end devices using copper cross-over connections. * We sel interface b/w end durices and router denoted by a red det (400+ functioning).

* To configure the router type the folly, commands in Router's CLI.

Ankith S

continue with configuration dialog ? [yes/no]: no 1st side configuration Router > enable Router # config terminal Router (config) # interface fastEthernet 0/0 Router (config-if) # 18 address 10.0.0.10 255.0.0.0 Router (config-f) # no shutdown pouter (config-if) # escit. 2nd side configuration. Router Config-if # interface fait Ethernet 1/0 Router (config-i]) # 1Paddren 20.0.0.10 255.0.00 Router (config-if) # no shutdown Router Ceonfig-if) # exit. * Now the interfaces burn to green color indicating network is functional. (10.0.0.1) functional. (10.0.0.1)

* Select and end in command prompt Output pinging 20.0.0.1 with 32 bytes of data Request timed out Regulf Fined Out Request fined out request fined out * Grateway address has to be added for end devices to know where to send PDV when router in present. For 10.0.0.1 -> Set gateway 10.0.0.10 20.0.0.1 -> set gatway 20.0.0.10

After setting gateway, now is command line. pc > proj 10,00.1 pinging 10.0.0.1 with 32 bytes of data; Roply from 10.0.0.1: byth = 32 time = 0 ms 7TL = 127 Reply from 10.0.0-1: bytes -32 time = 0 ms TTL = 127 Reply from 10.0.0.1; bytes = 32 time = 0 ms TTL > 127 Reply from 10.0-0.1: bytes = 32 time = 0 ms +12 = 127 Ping stubulies for 10-0.0.1: Packets, Sert - 4, Recieved = H, Lost = 0 (0% Loss) Approx round trip times is milli-seconds: misimum = oms, Maximum - ons, Avg = 0 ms 502/0 Topology 21 se 2/0 gv. 0.0.1 | switch 1002 | PUH | 20.0.0.3 pag Router 1 config: interface fartethernt 0/0 1 p addren 10.0.0.10 255/0.0.0 no Shittdown exit interface senal 2/0 ip address 30.0.0.10 no shutdown > exit 255-0.00

Routes 2 config: interface fast Ethernet 010 ip address 20,0.0, 10 255.0.0.0 no shutdown exit interface served 2/0 ip address 30.0.010. 255-0-0.0 no shutdown exit from 10.0.0.1 PC/> Ping 30. 0.0.10 Op: Packets: Sent = 4, Recieved = 4, Lott = 0 From 10.0.0.1 pc/> ping 20-0.0.1 Repty from 10.0.0.10: pertination host unreachable

Packeth: sent = 4, Recieved = 0 LOT = H (100% LOM)

