lowers in parket es longique Ip addless to tracer. Explore the following nessages: ping respon - ses, destination, unreachable, sequest timed out, reply.

Steps involved:

Step 1: Delag and deop 2 pc's and a genetic nouter. Set the Ip addresses of 2 pc's as 10.0.01 and 20.0.0.1 Respectively. Set the gateway of 2 pc's as 10.0.0.3 and 20.0.0.3 respectively and connect them to the souter.

Step2: Configure the router settings to connect the two networks live, two pris of different n/w) by using following steps after making the connections.

> Router > enable Routel # config terminal Router (config) # interface jastethernet 0/0 Router (config-i6)#1p address 10.0.0.3 251.0.0.0 Router (config-16)# no shutdown Router (conjig-i6) # Exit Router (conjig) # interface jast Ethernet 2/0 Route (config-i6) # ip address 20.0.0.3 215.0.0.0 Router (config-if)# no shuddown Routel (config-ig) # exit Router (config) # Exit

Routes #

step3: Send a Simple PDU from pco with ip address 10.0.0.1 to pc1 with ip address 20.0.0.1 and confirm how many parkets sent by using ping command.

Step4: Similarly, connect two mole pc's & with a

souter and configure by following above mentioned steps. Introduce one more router and connect it to the existing two souters of different network and configure it step 5: Now, if you ping from the pc with ip address 10.0.0.1 as > ping 40.0.0.1 the response will be destination unreachable. Although, it seemed there's a commection between these two pc's indirectly via routers, but every router may not have information regarding every network present in the topology so these pc's cannot communicate. To eliminate this, we should use static routing to teach every nouter manually.

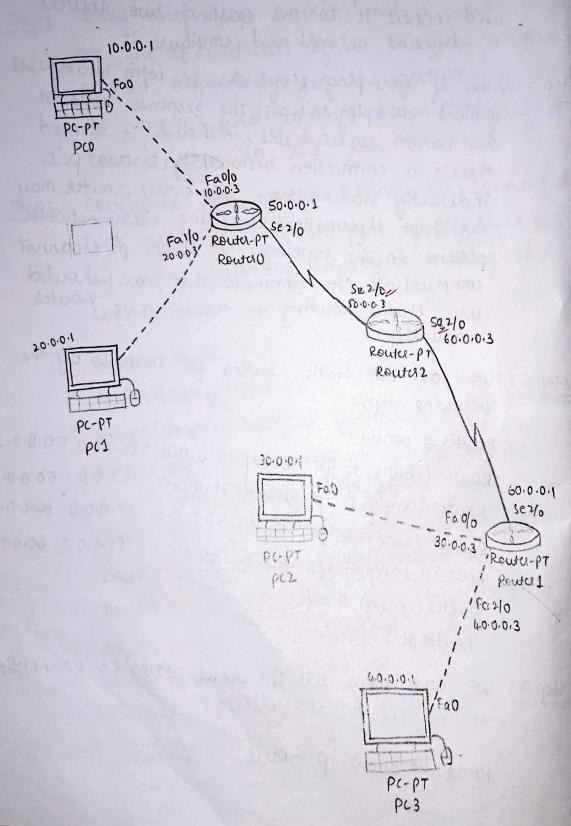
we can do static routing for souters by the Step 6: following steps: Router # config t 255.0.0.0 50.0.0.1 10.0.0.0 route Router (config) # ip 217.0.0.0 50.0.0.1 20.0.0.0 soute Router (config) # ip 30.0.0.0 21.0.0.0 60.0.0.1 soute Router (config) # ip MO.0.0.0 522.0.0.0 60.0.0. soute Router (config)#ip Router (config) # exit

step 7: we can view all the sout networks connected to a souter as follows:

Router # show ip house.

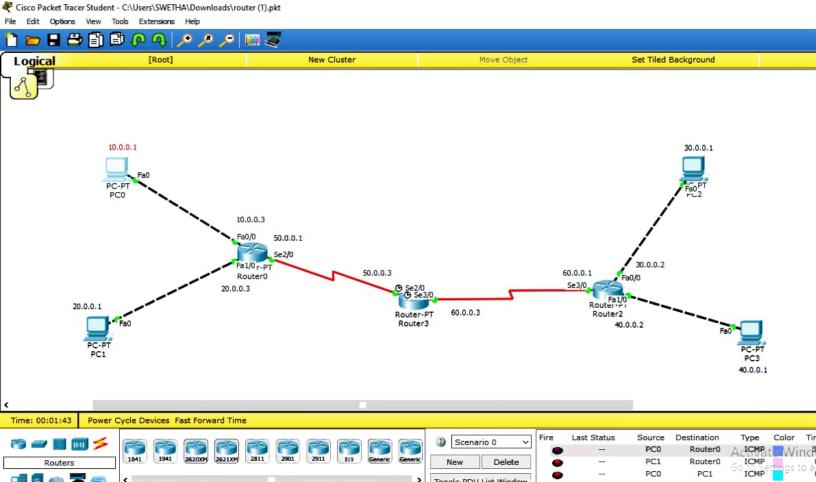
Routes #

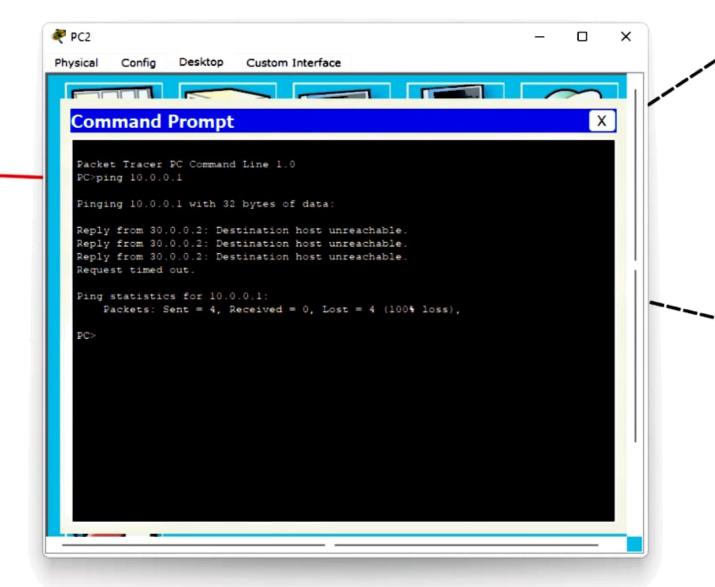
c-connected, s-static codes: 50.0.0.1 via [1/0] 10.0.0.018 S 50.0.0.1 via [010] 20.0.0.018 S 60.0.0.1 via 30.0.0.0/8 [210] S 60.0.0.1 Na 40.0.0.0/8 [110] S directly connected, Serial 2/0 20.0.0.018 M C connected, soil 2/0 60.0.0.0/8



Before making Static route, from pc2 ping 10.0.0.1. command prompt: PC> plng 10:0:0.1 pinging 10.0.0.1 with 32 bytes of date: un reachable Reply from 30.0.0.3: Destination Reply from 30.0.0.3: Destination host unleachable host unieachable Reply from 30.0.0.3; Destination host Request timed out. plag statistics tol 10.0.0.1; parkets: Sent = 4, Reviewed = 0, Losst = 4 (100%, loss). After static route, trom pc1 ping pc3 command prompt: pc > ping 40.0.0.1 pinging 40.0.01 with 32 bytes of data: Request timed out time= 3ms TTL=125 Reply from 40.0.0.1; bytes= 32 time=3my TTL2125 time=3my TTL2125 Reply from 40.0:0.1: byte=32 Seply from 40.0.0.1; bytes=32 ping statistics for 40.0.0.1: 16/23 Parkets: sent = 4, Reviewed = 3, Lost: 21 (25% LON) place officent of the inadditions on 30 their are you are 10000

exact configuring the south interform





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