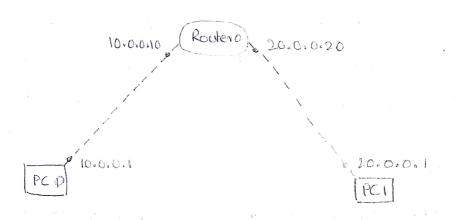
Experiment - 2

Name of the experiment: Greate Configure IP address to routers in packet tracer Explore the following messages: ping responses, destination unreachable, request timed out, reply.

2a:

Aim: To Consigure IP address to routers in packet tracer and get real ping responses - request timed out, reply.

Topology:



Procedure:

- · 2 PCs are connected to a router using copper cross over
- · IP addresses one set for PCs and Touten
- · It address for Routen is set wing gollowing commands—

 router + enable

 router # config t

 router (config) # ip address 10.0.0.0 255.0.0.0

 router (config)# interface fastethemet 0/0

 router (config-it)# ip address 10.0.0.10 255.0.0.0

router (config-ig) # no shut

router (config-if) # exit

sintillar router (config)# intergace garterethernet 10 router (config-ig)# ip address 20.0.0.10 255.0.0.0
Touter (config-ig)# no shut router (config-ig)# exit

· after all IB are set, ping message is sent.

Result: PC> ping 20.0.0.1

pinging 20.0.0.1 with 32 bytes of data:

Request timed out.

Reply from 20.0.0.01 bytes: 32 time=0ms TTL=127

Reply from 20.0.0.1: bytes = 32 time = 0 ms TTL=127

Reply from 20.0.0.1: bytes = 32 time= 0ms TTL= 127

Ping statistics for 20.0.0.1:

packets: sent = 4, received = 3, lost = 1 (25% loss), approximate found trip times in milli-seconds:

Minimum = Oms, Maximum = Oms, Average = Oms

observation:

PCO is in network 10.0.0.0 and PCI is in 20.0.0.0. Hence we use router to connect them. when a ping menage is sent from netwood.

PC 10.0.0.1 to 20.0.0.1, it the menage reaches the destination through nowher.

when a menage is sent, the router captures it and sends to the new distination PC which is in another network.

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26:

Him: To configure IP address to routers in packet tracer and get ping responses, destination host unreachable, replies.

Topology:

10.0-0 (router) 20.0.0.10 20.0.0.20 30.0.0.20 30.0.0.10 30.0.0.10

PCO PCO. 1

Procedure:

- · Connect corresponding PC to corresponding routers using copper cross-over
- · connect routers wing serial DOE.
- · set IP address for PCs.
- · Configure IP address to routers by giving commands in
- · Aster all IPs are set, ping PC to get distinction host unreachable menage
- route the IPs to the adjacent IPs using following command router (config)# 30 ip route 30.0.0.0

255.0.0.0 20.0.0.20

router (config) # ip route 40.0.0.0
255.0.0.0 20.0.0.0

por router [config]## ip route 10.0.0.0 255.000
20.0.0.10
router (config)## ip route 40.0.0.0 255.000
30.0.0.20

for routen 2- router (config)# ip route 10.0.0.0 255.0.00
30.0.0.10
router (contig)#

router (config)# 12 route 20.0.0.0 255.00.0

· After this is done, ping pc to get reply men ages.

Result:

1.0.0.0 PC > ping 40.0.0.1

pinging 40.0.0.1 with 32 bytes of data:

Reply from 10.0.0.10: Destination host unreachable Reply from 10.0.0.10: Destination host unreachable Reply from 10.0.0.10: Destination host unreachable Reply from 10.0.0.10: Destination host unreachable

Ping station gon 40.0.0.1.

packets: sent: 4, received:0, lost: 4.(1007, loss)

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pinging 10.0.0.1 with 32 bytes of data:

Reply from 10.0.0.10: bytes=32 time: 1mg TTL=128

Reply from 10.0.0.10: bytes=32 time: 1mg TTL=128

Reply from 10.0.0.10: bytes=32 time=2ms TTL=128

Reply from 10.0.0.10: bytes=32 time=4ms TTL=128

ping station for 10.0.0.1:

Packets: sept= 4, Received=4, Loss=0, Co: loss).

Approximate round trip times in milli-seconds.

Minimum=1 ms, maximum=16 ms, average = 6 ms

Observation:

PCO is in network 10.0.0.0 and PCI is in network 40.0.0.0. There the 3 routers in between which initially directly connects 10.000, 20.0.0.0, 30.0.0.0 and 20.0.0.0. Hence when a ping mexage is sent from Trusted it only reaches the first routen and gives destination host not entreachable memage.

Africation host not entreachable memage.

Africation the routers know about other adjacent networks, (next hop) we send a ping memage from

40.0.0.1 to 10.0.0.1 to get desired tep result.

The message reaches the destination.

