9-oct-24 Lab 2: Correcting two PCs on different networks asing a grouter appeared retworks

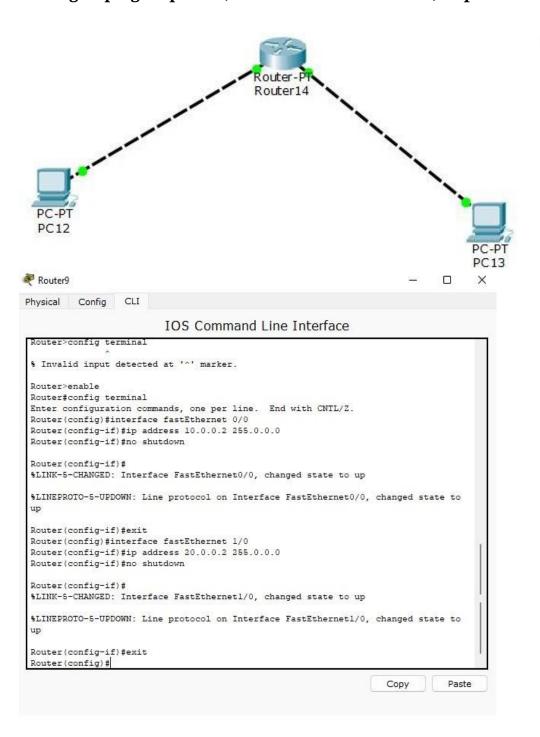
(a) Configure IP address to nouters in packet traces. Explore the following messages: ping, presponse, destination, unreadable, nearest time out, neply with a grouter with two Aim: To configure a network with a grouter with two PCs connected using crossover cable, and to enable comunication between them. components onto the workspace: Place on greates in the middle Torology: je obis reltie ge 29 out evol? : 239. Food Surfaces to allow resolvered each of the devices as the surfaces of of a feet of a surface of or a feet of or a feet of a surface 3. Configure that senter by clicking on 039 is menter ID 2010, Onthe bro 10.0.0.10 est at default gateway 20.0.0.1 default goteway 10.0.0.1 1. PCo: Connected to roter's interface Fa do using as cross-over cable IP oddress: 10.0,00.10 senteted infection Default Grateway: 10.0.0.0. 2. PC1: Connected to the nouter's interface Fo 1/0 cusing a cross over cable evolution evolution Default Grateray: 20.0.0.10.0.05 seechbo 9: mostule on the 2 el-0598, estavel time! ,82 - 05H 1-70-75 12-78-25 POSE 1 , all was the Brees 2 , 10-75 75

3. Router:	4. Configure the PCs: was state booking shore 9-9
Interfact to 90 contracts	4. Configure the PCs: For PCO: PCO and set the IP address to
Interface Fa 1/0 corrected to PCI  Interface Fa 1/0 corrected to PCI  I Paddress of Fo 0/0: 10.0.0.1  TPaddress of Fa 1/0: 20.0.0.1	For PCO:  · click on PCO and set the IP address to
I Paddress of Fo 0/0 may be pure consulty see (	in hubble wash
TPodbess of Fa Vo : 20.00.1	10.0.0.0.1
at bre also remains	c 200000 is doubly consted, but Exherest of
Perocedure: breo allos revolucio prico beturno as	
1. open asso packet tracer and drag the bollowing	1.1. PCI and set the IP Address to
components onto the workspace:	I hask to 199.
· Router: Place on noutes in the middle	1.0. It insternal to 20,000.
· PCs: Place two PCs on Either side of the router	
	5. Test Connectivity by opening the command paramet on
2. Use Conses Over calles to connect the devices	
as follows:	PCO & PCI - with the styll contractive ty the
PCO -> Routers Fo 0/0 interface	Obe the Italy
PCI - Router's Fa /o interface	Forom PCO, ping PCO'S IP (20.0.0.10)  Forom PCI, ping PCO'S IP (10.0.0.10)
	Forom PCI, pung PCOS IP(10.0.010)
3. Configure the monter by clicking on the montes	a to began
and enter the CLI	Observation as and feet brose donesty you
Assign IP address to the nouter interfoce:	observation!  1. If the configuration and cabling are correct, you will receive successful ping replies b/w the two PCs
	will predire successful pang sayous.
configure terminal	2. If there is no connectivity, tensubleshoot by verifying:
configure terminal	Correct IP addressing, calling type, both nouter
interface fastethernet 0/001 24/1000 1I	correct IP addressing, calling type, both mouter interfaces are up & running.
io address 10.0.0.1 255.0, p. 0	
of no shutdown vectore and at believe 3:108.	Show IP groute was observed to be:
Lat soften be the grantest with the	
interface fastathernet 1/0 00.00 supplies	Codes: C- corrected, S- statio, I-IGRP, R-RIP.
interfoce fastathernet 1/0.0.8.0.86.0.81  interfoce fastathernet 1/0.0.8.0.86.0.81  paddress 20.0.0.10.0.000  paddress 20.0.0.10.000  paddress 20.0.0000  paddress 20.0.00000  paddress 20.0.00000  paddress 20.0.00000  paddress 20.0.00000  paddress 20.0.000000  paddress 20.0000000000000000000000000000000000	M-Mobile, B-BGP, D-EIGRP, EX-EIGRP external,
no shuthown	0-05PE, IA-OSPF inter area M1-05PF MSSA external type 2
of the same same of the same o	EI-OSPF external type 1, E2-OSPF storal Eye2, E-EGP
sometimes to the same of the s	EI-OSPF external type 1, E2-OSPF stornal type 2, E-EGP 1-IS-IS, L2-IS-IS level-1, C2-IS-IS level-2, ia-IS-IS interovea

\* - candidate result, b-per-user static noute, 0-00R P-periodic download etatic noute craterray of last resort is not set me dails. 10.0.0.0/8 is directly connected, Fast Ethernet ofo 20.0.0.0/8 is directly connected, Fast Ethernet o/1 glish you PCI god set the IP Addrage to ping from PEO esto de PC Itembre 3000000 1.0.0.05 et pouretop thuisset > ping 20.0.0.10 pinging 20.0.0.10 with 32 bytes of data: Reply from 20.0.0.10: lytes = 64 time = 6me TTL=127 Reply from 20.0.0.10: bytes = 64 time = 1 ms TTL=127 Ping statistics for 20.0-6.10 town peo, ping Pockete: Set = 2, Recieved = 2, Lost = 0 approximate ground torin times in milli-seconds:

Maximum : I'ms of previage = 0 ms for a previage = 0 ms for cornect IP addressing, calling type, both montes entrate on un la guarring.

2) Configure IP address to routers in packet tracer. Explore the following messages: ping responses, destination unreachable, request timed out, reply



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Physical Config Desktop Custom Interface

Command Prompt

Packet Tracer PC Command Line 1.0
PC-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=0ms 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 round trip times in milli-seconds:

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

PC>ping 20.0.0.1

Pinging 20.0.0.1 with 32 bytes of data:

Reply from 20.0.0.1: bytes=32 time=0ms TTL=127
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Physical Config Desktop Custom Interface

Command Prompt

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Packet Tracer PC Command Line 1.0

PC-ping
Packet Tracer PC Ping

Usage: ping [-n count | -v IOS | -t ] target

PC-ping 20.0.0.1

Pinging 20.0.0.1 with 32 bytes of deta:

Request timed out.
Request timed out.
Request timed out.
Request timed out.
Pring statistics for 20.0.0.1:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

PC-
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## **Observation:**

16-oct-24 ellers a metros Egp 26 Routes # configured tonnincel PC's on two networks via Ain: To cornect two Routes (configure) # 4 odds Routes ( config - if) It sent Topology: Topology: 30.0.0.1
225 20 30.0.0.1
20 210 1 20 210 1 Router-PT
Router-PT
Router-PT 10,00.2 / Router - PTulle on # ( be- pitros Fa Wood
Router 0 configuration PCS 10.0.0.1 Fo 0

20.0.0.1 PC-PT

PC-PT IP address = 10.0.0.1 Default Graterbay ? I 1000 to 2 how 139 no shall. pc1 - connected to oronter's (Router 1) interface

2. Pc1 - connected to oronter's (Router 1) interface

2. Pc3 - connected to oronter's (Router 1) interface

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2. Pc3 - connected to oronter's (Router 1) interface OS more address vios 2010. Ot. promiss Default Grateway: 20-0.0020000 9I 25139 pag 3. Router O Interface Fa 0/0 connected to PC-0 · Freefore se 2/8 corrected to Router -1 · IP address of Fa 0/0: 10.0.0.2 Thodoress of se 2/0: 30.0.0.1 return . . Is address of esc 210, 130.00.2. The grandle of

Router # configure torminal Procedure: 15 de se al sulatota pail . Open Caso Packet torsier and drag the following Routes (config) # interfoce fact othernet 1/0 Routes (config-it) # ip address 20.0.0.2 255-0.0.8 components onthe workspace: Router: Place two grouters in the middle Router (config-if) # sait PC: Place two PCs on either side of the Router (config) # interface serial 2/6 Router (config-t) # & ip address 30.0.02 258.0.0 · Use Comes over cables to corner the devices Router (cooping -if) # no shuthown as follows:

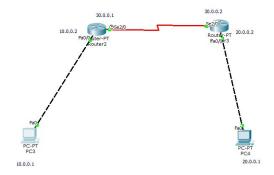
PCO > Routers (a) Fa % interface

PC1 > Routers (1) Fa Vo interface Configure the PC's For PCO: · Club on PCO and set the IP address to · Configure Router o by dicking on the nonter & exter CLI

Assign IP addresses to the norter viterface: 10.0.0.), subject mark to 255.0.0.0 and For PC1: 10.000 200 10.000 9I Router > enable . Click on PCI and set the IP address to 20.0.0.1 Routes (only) H interfoce fast ethernet 0/0 subnet masks to 255 0-0.0 and default geterray Router (config if) # up address 10.0.0.2 255.0.0.0 to 20.00 observe et between - 157 Pouter (config-11) rest extras as 8/0,000 Router (config ) # interfore revial 260 Test connectivity by opening command personnet on PCO Use the ping command to check connectivity from PGO, Router (confight) # up address 30.0.0.1 255.0.0.0 ping PCI's IP address (200.0.1) Router (config - if) # no shutdown absorbation: The ping results are as follows: receive successful ping replies blu two PC's PC > ping 20.0.0.1 Pinging 20.0-0.1 with 32 bytes of data 4. Router 2:

• Interfore Fo Vo corrected to PC-1 Request timed out · Interfore to la connected to Router 6 repfore Request timed out 1 Paddress of Se 2/0: 30.0.0.2 Request timed out all about destroyed

Ping statistics for 20.00.1 Racket sent = u, Received = 0, loss = 4 (100% toss) conjuste outro atmosphere PC 7 Ring 20.0.0.1 genter: Place ture south Pinging 20.0.0.1 with 32 bytes of data graphy from 10.0.0.2: Destination host unreachable seply from 16.0.0.1: Destiration host unreachable neply from 10. 0.0.2: Destination host weakhable request timed out aspects of or acceptance 109 Ping statistics for 20.0.0.) Packet: sent = 4, received = 0, lost = 40 Router or enable Il soute was observed to be detri to (pulso) was is directly connected, Fast Ethernet 0/0 10.0.0.0/8 [10] via 30.0.0.2 20.0.0.0/8 30.0.0,018 is directly con. is directly connected to serial 2/0 smalled so ere stludere pring ell



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Physical Config Desktop Custom Interface

Command Prompt

Packet Tracer PC Command Line 1.0

Popping 20.0.0.1

Pinging 20.0.0.1 with 32 bytes of data:

Reply from 10.0.0.2: Destination host unreachable.

Reply from 10.0.0.2: Destination host unreachable.

Reply from 10.0.0.2: Destination host unreachable.

Ping statistics for 20.0.0.1:

Reckets: Sent = 4, Received = 0, Lost = 4 (100% loss),

RC-ping 20.0.0.1

Pinging 20.0.0.1 with 32 bytes of data:

Reply from 10.0.0.2: Destination host unreachable.

Reply from 10.0.0.2: Destination host unreachable.
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