WEEK 2

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

OBSERVATION:

| | Clasemate Date 32/26/2028 |
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| | Configure IP address to routers in packet traces. Explore the following mestages: ping sesponses, destina- tion unreachable, request timed out refly: |
| නිය) | Ains?- Configue 1P addess to soutes and exploring ping |
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| | (in provide) touri |
| | PC-PT PC-PT 20.0.0.1 |
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| | Proadweit |
| | Step 1: Select Router - PJ and place it in morlespace |
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| | in morphael. |
| | 0/0 of south and fout ellowest ale of Dis |
| | slep 3; connect fast eltremet 0/0 of PCs to fast eltremet 0/0 of south and fast eltremet 0/0 of PC2 to fast eltremet 0/0 of south elsing copper woll- |
| | Ones. |
| | 1 1 1 1 1 address of of PCI at 10.0.0.1 and |
| | slep 5: In setting set galaxay of PCI at 10.0.0.10 |
| | Step 6: setup the interface of soutes using the follow |
| | to configure routes commandeire interface (CLI) |
| | |
| | Routes O CLI |
| | Press > enable |
| | Routes # config to or config terminal |
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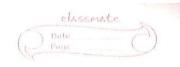
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| + | Interface serial 2/0 -> Interface Mired 5/0 IP address 20.0.020> IP address 30.0.0.10. |
| | No shut> No shut |
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| | 0.31 68000 |
| 1-1-1 | Routes # : show IP soute |
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| | -> click on PC- |
| | → Ping 40.0.0.1 |
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| | Static Routing: |
| Incide. | cund: |
| | JP goule 30.0.0.0 255,0.0.0 20.0.0.20 |
| Cast is | 1P rate \$0.0.0.0 255.0.0.0 20.0.0.20 |
| | |
| Poster 2 | : IP route 10.0.0.0 255.0.0.0 20.0.0.10 |
| | IP noute 40.0.0.0 255.0.0.0 30.0.0.20 |
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| en | Show IP growth |
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| Routes 3 | - 30 roule 10.0.0.0 255.0.0.0 30.0.0.10 |
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| | Show IP loute. |
| 150 - 67 | |
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| | ping 40-0-0-1 4 |
| | J. |
| Land. | Router (contra) # interface Loude theread 0/ D |
| | Router (config) # interface fast ethernel 0/0 Router (config - if) # if address 10.0.0.10 255.0.0.0. |
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| | Routes (config. if) # interface fastethand 1/0. Routes (config. if) # ip addles 20.0.0.0 Routes (config. if) # no ibul. |
| | Router (config if) # ip addless 20.0.0.0 355.0.0.0 |
| | Routes (config II) # no which |
| | exil. |
| | Routes (config) # exil |
| | Router # |
| | Show ip route |
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| 25 (C 1) | C 10.000.0 18 is directly connected, Fact Etherned of o |
| | C 20.0.018 is directly connected, Fast themel 1/0 |
| | 1 Control of the cont |
| 10000 | Stip 7: - Obsernation |
| | Eyreen lights appear on wire when no shut |
| | commande are written which indicate that they are |
| | heady for data transmission. |
| Test 5 | finder - total actions are minuted by 11/15 |
| | Ping outfut in Pco: |
| , | 01 \ -1 20001 |
| 7-3- | penging 20.0.0.1 with 32 bytes of data. |
| | Requart Timed fout was and a stand |
| | Reply from 20.0.0.1: byles = 32 line = oms 771 = 127. |
| | |
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| | Reply from 20.0.0.1 bytes=3d lime = oms TTL=127 Peply from 20.0.0.1 beyld = 3d lime = oms TTL=127 ping statistics for 20.0.0.1 packets: sent: 4 Pecenid = 3, loss=1 (25-1-loss), Appropriate Approximate found this time on millicseco. |
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| | ohm to |
| - Pos | Observation On perigong in PCO, for the first time there is a 25% Lock |
| &b) | Ain: - Configure using 3 router, and 2PCs |
| | Jopalogy:- |
| | 10.0.0.10 Roules 0 Se 210 Roules 2 Facolo Se 210 20.0.0.20 Je210 Paolo 30.0.0.10 |
| | FaO |
| | PC - PT PC PT PC PT |
| | Brocedure Step 1: The notional es started by selecting and |
| | Step 1: The network is started by relating end clewish PCO & PCI il., generic PCs and placing attems in workfacel. |
| | Step 2: school & souter - PT and place them as souter a in workspace. |
| | and the last the same will be the same of |



| | step 3: Ro & RI au connected to routes o and |
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| | Sould & Separated aller a collabora contours |
| | step4: Connect soutes o do soutes 1, soutes I do eoules 2 |
| | using |
| | steps: set up IP address de provido 10.0.0.1. PCI to |
| | 40.0.0.1. Set up galance of PCO as 10.0.0.10 and |
| | steps: ret up IP address of provide 10.0.0.1. Pri to 40.0.0.1. Set up galeuray of Pro as 10.0.0.10 and Pri as 40.0.0.10 |
| | The state of the s |
| | Configure the routes by opening CLT: |
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| | Route # config t. |
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| | Poutes (config - if)# " address 10.0.0.10 255.0.0.0 Poutes (config - if)# no shut. |
| | Poutes (config -if) # no shut |
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| | Routes (config) + interface serial 2/0. |
| | Routes (config-if) # ip address 20.0.0.10 255.0.0.0 |
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| | of laws, account value is a serie |
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| P-4-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2- | Roudis (config-4) # 10 address 30.00.10 255-0.00 |
| | Router (config of) # no short. |
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| | Bouter (config) H cond |
| | VJ |
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| 3x 1xxxxx | Routes > enable. |
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| | Routel (config # ip addless 80.0.0.90 255-0.0.0 |
| 184 | Router (config it) # ip addless 80.0.0.90 255.0.0.0 |
| | Router (config - of) # no shut. |
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| | Router (config) # interface fast ellured 0/0. Router (config - if) # ip address 40.0.10: 255.0.0.0. Pouler (config-if) # no shub. |
| | Router (config - if) # ip address 40.0.10. 255.0.0.0. |
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| | Routed 0: |
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| | Route 1. |
| | Renter # show ip soute |
| | C 20.0.0.0/8 is directly connected; usual 2/0 |
| 1 | C 30-0-0.0/9 it directly connected, serial 3/0 |
| . | Anna are in the same |
| 1 | Route 2: |
| (| Route # Show ip soute. |
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| | Quality hand 44 and 1 and |
| | pinging 40.0.0.1 with 52 bytes of data |
| | 574 13114 |
| | 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 |
| | Dilar 1000 0.10 : Destination host anseachable |
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| | Now configure the soutes which does not I data of other network of CLI write config t show soute. |
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| | Poute 30.0.0.0 255.0.0.0 20.0.20 ip soute 40.0.0.0 255.0.0.0 20.0.0.20. |
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| | Poute 30.0.0.0 255.0.0.0 20.0.20 ip soute 40.0.0.0 255.0.0.0 20.0.0.20. |
| | Route 30.0.0.0 255.0.0.0 20.0.0.20 ip soute 40.0.0.0 255.0.0.0 20.0.0.20 Route 1: ip soute 10.0.0.0 255.0.0.0 20.0.0.10 |
| | Route 30.0.0.0 255.0.0.0 20.0.20 ip soute 40.0.0.0 255.0.0.0 20.0.020. Route 1: ip soute 10.0.0.0 255.0.0.0 20.0.0.10 ip soute 40.0.0.0 255.0.0.0 30.0.0.20 Route 2: |
| | Pouter 0: ip soute 30.0.0.0 255.0.0.0 20.0.20 ip soute 40.0.0.0 255.0.0.0 20.0.020. Router 1: ip soute 10.0.0.0 255.0.0.0 20.0.0.10 ip soute 40.0.0.0 255.0.0.0 30.0.0.20 Router 2: |

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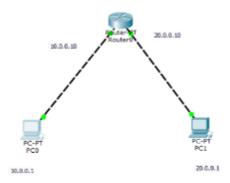
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| | C 20.0.0.0 (8 is divilly connected, resial 2/0 |
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| This . | 6 40.0.0.0/8 (1/0) via 20.0.0.20. |
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| | Routy 1. |
| 1 | Color of the color of the color |
| | S 10.0.0.0/s [1/0] via 20.0.0.10. |
| | c 20.0.0.0/8 is direlly commeted suid 2/0 |
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| | S 40.0.0.0 0/8 [1/0] vià 30.0.0.20 |
| The same No. | the set winds when we wind |
| 1. | Routel 2 |
| | S 10.0.0.018 [1/0] - rua 30.0.0.10 |
| | S 20.0.0.0/8 [1/0] min 20.00.00 |
| | C 30.0.0.0 18 de directer (pressontal 111.30 2/- |
| | c 40.0.0.0/g is dively connected, Fastelhund 0/0. |
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| | Ping nestages |
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| | per ping 40.0.0.1 |
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| | penging 40.0.0.1 with 30 bytes of data. |
| | |
| | Request timed out. |
| | Reply from 40.0.0.1 bytes = 32 time = 200 TTI = 120 |
| | Reply from 40.0.0.) byles=32 line = 2ms TTL=125 |
| The state of the s | Peply from 20.0.0.) bytes=32 time=2ms 776=12 |
| 1 | 1 1 0 |

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| | 1 | Peng statistics for 40-0-0-1 puckets sen = A, Recenied = 3 lost = 1 (25-1-loss) |
| - | | pucket slut = A, facenced = 3 lost = 1 (25-1-loss) |
| | | Approximate sound trip times in milli-seconds |
|) | OF ARTHUR SA | Minimum = 2ms, Manumum = 2ms Avelage = 2ms |
| neto/o | | Musual das |
| 10 | | Objetuation: |
| 1 | | In first ping distinction host was unreachous - le as Pouter o has no knowledge about the |
| | | nelitiesh 30.0.0.0 and 40.0.0.0 and the packets got |
| | | stuck or lost. |
| | | After this is souls is explicitly |
| | | After this ip roate is explicitly Now on penging there is 25% loss in first lime, the following one's has no loss |
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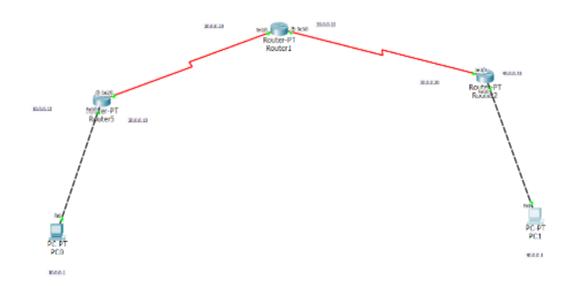
OUTPUT SCREENS:

TOPOLOGY

PROGRAM 2.1



PROGRAM 2.2



OUTPUT: PROGRAM 2.1

```
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

Reply from 20.0.0.1: bytes=32 time=10ms 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 = 10ms, Average = 3ms

PC>
```

