| | Dt: Pg: |
|----|--|
| | Expeniment Using routen and PC |
| | The second secon |
| | AIM: Configuring IP address to router in packet |
| | teraces to explose the following messages: |
| | ping responses, destination unreachable, |
| | Request temen neply noture priet |
| | |
| | Procedure: |
| | Ueing single nouten, & PC's |
| 1. | place a generic nouten and 2 generic PC's in |
| | Workspace |
| 2 | Connect the nouter and PCs using copper cross offer |
| 3 | Configure IP address of each pc and in the |
| | configuration. Under settings set gateways 4091 |
| | PC's to nouten |
| ٠, | Click on the generic-nouter and go to CLI. Enter |
| 4 | the following commands to set up connections between |
| ÷ | pcis and generic nouter through gateway 10.0.0.10 |
| | Next. |
| | Do the following steps |
| | No |
| | → Enable |
| P | # config 1 |
| | (config) # interface fastethernet 0/0 |
| | (config) # Interface Fasterner of Ceonfig 1f) # IP address 10.0.0.10 255-0-0-0 |
| | # no shut |
| | # exet |
| | Now setup connection between PC's and nouten |
| | |
| | through gateway 20 = 0 = 10 # Intenface fast ethenet 1/0 |
| | # Intentace tastement 70 # "p addness" 20.0.0.10 255.0.0.0 |
| | |
| | # no shut |

Experiment Using routen and Pc

Configurating IP address to routen in packet teraced to exclose the following mercadice. psny siesponses destination unreachable Using 3 router 1/192, PC Soft telles

PROCEdura

201010.103039 Ocho Civio Housed is , to 10 Router - PT 20.0.0.20 200 200 00 00 31.000 20 Connect themselfen and PCs usparal pper cace was Configure IP address of each PC mld in the contigues and nother pitios Beo on the generate-soutes and get Fig. 0.0 the following commands to ect with one between Acit and demonst events mondy days nord por 10 June CA Do the following cteps 0C1 -

1 Rofa05 #

- Encepte

(config) it intenface fastalkennet olo (config-14) # IP add ness 10,0,0,10 255, 0-0

JUN2 ON #

TIN #

Mow estup connection between PC's and Nouten Through gateway sorbelo of Interface fastethers 1/0

| | Once we enter "no shut ?? both times and the ambes |
|--|--|
| | light between the PC and nouter turns areen |
| | Endicating that the two ITNES are connected. |
| | |
| , | Simulation mode: - Add simple PDU by selecting the |
| \$ | PC's and circk on auto capture from the sight panel |
| | |
| | Real-time mode: - Celect the PC you want to send |
| | the podeast from pc, and open its commond prompt |
| | from desktop tab , specify the destination bar |
| | address. A response is sent from destination PC to |
| | sounce PC. |
| | |
| * | Using those noutens, 2 PC's |
| | |
| 1. | place 3 generic nowtens and generic pcs |
| 2 | Place a node for each device and specify the IP |
| | address |
| 3, | Connect the nouten using signal DCI |
| 4. | click on PC and then configure taband configure |
| | IP address of pcis |
| 2. | Next, click on settings in config tab set gateway as |
| | IP address of next nouten |
| 6. | IP address of PC and Its gateway address should |
| | belong to same network. |
| | |
| | for connecting noutens |
| | |
| | elick on Powten o |
| | to to CLI and Enter the commands |
| | → no |
| The state of the s | enable |
| | -> intenface senial e/o |
| | -1 IP add necs 20.0.0.10 255.0.0.00 |

| | Δ. |
|--|-----------------------------|
| After this, the ned eggnal | channe to Assan Ander 10 |
| they are neady for communi | ention |
| for connecting two device | |
| | |
| S T. F. F. L. W. Land Street State In 1876. | and the state of the |
| - no to nouten | |
| - Open CLI for nouteno | and enter the tollowing |
| commands | V X 10 2 |
| → ho | |
| → enable | in the first of the |
| → config | French M |
| - Intenface fastethernet | - 0 0 |
| → IP addness 10,0.0.1 | 0 522.0.0.0 |
| | |
| - no shut | |
| no shut | |
| | sien . Indicating that they |
| The ned light changes to g | |
| | |
| The red light changes to go are ready for communication | on see the |
| The red light changes to g are ready for communication | on see the |
| The red light changes to go are ready for communication Consecting Contex of net | on see the see that |
| The ned light changes to g ane neady for communication Consching fouter of of net I no I enable | on see the |
| The red light changes to g are ready for communication Formacting Router of of net Ino I enable I confly | -wonk 30: |
| The red light changes to g are neady for communication Consecting Pouter of the net I no I enable I confro Interface serial 2/1 | 0n -wonk 30: |
| The red light changes to g are ready for communication Connecting Pouter of of net Ino I enable I confrom I net reace serial 2/1 I route; 30,0.0.0 | 0n -wonk 30: |
| The red light changes to g are ready for communication Connecting Louter of of net Ind renable | 0n -wonk 30: |
| The red light changes to g are ready ton communication Connecting Pouter of of net Ind enable confloy interface serial 2/1 TP route: 30,0.0.0 | 0n -wonk 30: |
| The red light changes to g are ready for communication Connecting Couter of of net India renable confro interface serial 2/1 TP route: 30,0.0.0 exst show IP route | 0 255.0.0.0. 20.0.6.20 |
| The red light changes to g are ready for communication Connecting Louter of of net Ind renable | 0 255.0.0.0. 20.0.6.20 |
| The red light changes to g are ready for communication France thing fouter of of net India renable renable | 0 255.0.0.0. 20.0.6.20 |

| | ntenface senial 2/0 |
|-----|--|
| _ | TP 9,001te 40,0,0,0 255.0,0,0 20.0.0.20 |
| , A | - exit |
| _ | - show IP noute |
| | proving them is working the legitic of the |
| SP | mélanly nepeat fon nouten 1 l'nouter 2 |
| | |
| | imulation mode: - Add a simple PDU by selecting P |
| ţ | end elick on auto capture from 'right panel, |
| P | eal-time mode: - select the PC o and go to 9ts |
| و | command prompt and pring the nouter o, once the |
| | message has been sent successfully Repeat the |
| | with nouter 1 42 as well. Finally ping PCI |
| | The second of th |
| C | bsenvation: |
| | The state of the s |
| R | outen: |
| W | Then PCO pings per for the first time, we get the |
| 1 | finst packet as nequest thre out |
| 1 | Now, il we ping per again we get all & packets, nex |
| | nevense the prograg of PCO from PCI |
| | · · · · · · · · · · · · · · · · · · · |
| 3 | routen; |
| _ | 2 De La cerea the aputeur we get the result as |
| | destination not neactable. After training the routers |
| | we get to clean statistics. |
| / | |
| 4 | |
| | And the second s |
| | The state of the s |
| | |
| | |

| | Pesult |
|----|--|
| ~ | Vernog 1 nouten, 2 PC |
| 1 | |
| | pinging 20.0.0.1 with 32 bytes of data |
| | |
| | Reply from 20.0.0.1; byte = 32 time LIMS TTL=127 |
| | Keply from 20.0.011 byte so time the TTI = 127 |
| | Reply from 20.0.011; byte=82 time < lms TTL=127 |
| 4, | Reply Isrom 20.0.0.1: bytes= 32 tPme <1ms TTL=127 |
| | |
| , | ping statistics for 20.0.0.1 |
| | |
| | pinging 20.0.0.1 with 32 bytes of data |
| | Reply from 20.0.0.1 bytes=32 time clims TTL=127 |
| | Reply from 20.0:0:1 bytes=32 time < lms TTL=127 |
| | Peply from 20.0.0.1 bytes=32 Armerlms TTL=127 |
| | Reply from 20.0.0.1 bytes=32 time LLMS TTL=127 |
| | ping statistics for 20.0.0.1 |
| | packets = sent = 4, neckered = 4, lost = 0 |
| | とったでしても実施 |
| ર્ | Using those noutens two PCs |
| | |
| | ping 40.0.0.1 |
| | pinging 400.011 with 32 bytes of data |
| | |
| | Peply from 10.0.0.10; destination host unreachable |
| | 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 |
| | a la i destillación les |
| | Reply from 10.0.0.10: destination host unneachable Reply from 10.0.0.10: destination host unneachable |
| | ping statistics for to.0.0.1 |
| | ping statistics : sent = 4 : necieved = 4 ; lost = 4 |
| | |

| 7 | Prng 20.0.0.10 with 32 bytes of data |
|---------|--|
| | |
| | Reply from 20,0,0,10 with zzibytes = 32 time=1m: |
| | TTL = 255 |
| | Paply from 20+0.0.10; bytes=32 time=oms TT1=25 |
| | ping statistics for 20.0.0.10; |
| | packets: sent = +, necqued = 4, lost = 0 |
| | The second of the second of the second of the second of |
| 47 | Ping 30.0-0.10 |
| 70 | pinging 30.0.0.10 with 32 bytes of data |
| | 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - |
| | Reply forom 30.0.0.10: bytes = 32 time = 1ms TTL=256 |
| | 70 11 11 11 11 11 11 11 11 11 11 11 11 11 |
| | |
| (| Reply from 30.0.0.10; bytes=32 teme=oms TTL=255 Reply from 30.0.0.10; bytes=32 teme=oms TTL=255 |
| | Reply from 30.0.0.10. By 123 |
| e-su −1 | a traffic tire 30.0.01.0 |
| | parquets: sent=4, necleved=4, lost=0 |
| | |
| 5 | Ping 40.0.0.1 |
| | pringing 40.0.0.1 bytes = se |
| | |
| | buttes set time |
| | Leply from 40.0.01 : bytes=32, time=8ms TTL=125 Reply from 40.0.01 : bytes=32, time=8ms TTL=125 |
| | Δ_{-} Δ_{- |
| | |
| | ping statistics for 40.0 packets: sent=4, secseved=4, lost=1 |
| | pace |
| 7 | 0: 2 40.0:0:1 |
| (8) | Ping 40.0.0.1 with 32 bytes of data. Pinging 40.0.0.1 with 32 bytes of data. |
| | pinging 40.0.0.1 with 32 by003 Peply from 40.0.0.1: bytes=32, time=2ms TTL=125 |
| | Keply Trom |
| 111 | 10.11 from 40.0.0.1; byter = 30, time = qms TTL=125 |
| 11.11 | THE VARIABLE TO THE STATE OF TH |