COMPUTER NETWORK LABORATORY

LAB 1: INTRODUCTION

Computer Network Laboratory 9/06/2023 sample program Mountes methodores ourse stoke o 194initions: authorne agets LAN (Local Arua Network):

A LAN is a collection of devices connected together in one physical location such as building of five or nome. WAN (Wide Area Network):

A WAN is a large network of information

that is not tied to a single location Ethunet: Ethernes is the traditional technology for connecting devices in a wired local area network or wide tocarrea network. An Internet Protocal (IP) address is a unique numerical identifier for every device or network that connects to the internet. Hub is the anteral part of a cincular object switch is a high-speed deuta that receives incoming data packets and redirects them to their distinction on a local area network Surver: A server is a computer program or device that perbuides a service to another computer program and its user, also known as dient End devices: End devices are either the source or destination of data tonoursmitted over the network

Nodes: 0 1 1 to the sector A node is a point of intersection connection within a data communication network. mangary 4400 Steps involved Step 1: Donag and drop the PC and Server to workpay Step 2: Firstly, Copper straight-through cable was selected and connected the devices with it. If red lights are shown, remove that and copper cross-over cable is selected and grun lights are shown! Step 3: Cliak on the Pc. While paying attention to the link lights, tuen the power on off and on Same step is followed for server Step 4. Open PC configuration window, set the display name as client and DNS server to 10.0.0.2. Under Interface, dick fastethernet and set the IP address as 10.0.0.1 : Open somer configuration mindow, change the display name to web server and under interface, click fastethernet and set the IP address as 10.0.0.2. Step 6: Open server source, click ions and set the domain name as www-fireflab com set the IP address as 10.0.0.2 and dick add step 7: Same the work using the file > same as here distinction on a liver consensation and july no of source all was all

client the est med between 10.0:0.21

10.0.0.1

Realtime [In Command Prompt]

Ping 10.0.0.1

Ringing 10.0.0.1 with 32 bytes of data:

Reply from 10.0.0.1: bytes=32 time=0ms TTL=128

Reply from 10.0.0.1: bytes=32 time=1ms TTL=128

Reply from 10.0.0.1: bytes=32 time=1ms TTL=128

Reply from 10.0.0.1: bytes=32 time=3ms TTL=128

Reply from 10.0.0.1: bytes=32 time=3ms TTL=128

Riply from 10.0.0.1: bytes=32 time=3ms TTL=128

Ping statistics for 10.0.0.1:

Packets: Sent=H, Received=H, Lost=0 (01. Loss)

Approximate around trip himes in milli-seconds:

Minimum=0ms, Maximum=5ms, A verage=2ms

Pinging 10.0.0.3

Pinging 10.0.0.3

Pinging 10.0.0.3 with 32 bytes of data:

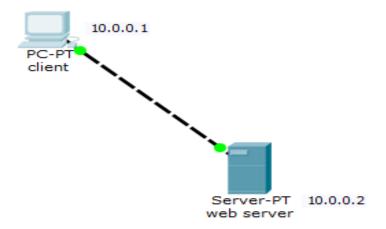
Request timed out.

Request timed out.

Request timed out.

Ping statistics for 10.0.0.3:
Packets: Sent = H, Received = 0, Lost = 4 (1001. loss)

TOPOLOGY:



COMMAND PROMPT OUTPUT:

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₱ PC2

                                                                                                                                    \times
                 Config Desktop Custom Interface
Physical
     Command Prompt
                                                                                                                                          Χ
     Packet Tracer PC Command Line 1.0
     PC>ping 10.0.0.2
      Pinging 10.0.0.2 with 32 bytes of data:
     Reply from 10.0.0.2: bytes=32 time=0ms TTL=128
Reply from 10.0.0.2: bytes=32 time=0ms TTL=128
Reply from 10.0.0.2: bytes=32 time=2ms TTL=128
Reply from 10.0.0.2: bytes=32 time=0ms TTL=128
      Ping statistics for 10.0.0.2:
     Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 2ms, Average = 0ms
      PC>ping 10.0.0.1
      Pinging 10.0.0.1 with 32 bytes of data:
     Reply from 10.0.0.1: bytes=32 time=3ms TTL=128
     Reply from 10.0.0.1: bytes=32 time=2ms TTL=128
Reply from 10.0.0.1: bytes=32 time=5ms TTL=128
      Reply from 10.0.0.1: bytes=32 time=2ms TTL=128
     Ping statistics for 10.0.0.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 2ms, Maximum = 5ms, Average = 3ms
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