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Course: MCA-2A

Que: 2:

Problem statement

There are two organizations in a city, named GEU and GEHU. Design a network b/w SOC dept. of GEU and GEHU. Also show the communication b/w user number 1 of GEU and user number 2 of GEHU.

Objective

Creating a computer network b/w the two departments of two different organizations.

Description

To construct a connection b/w the two departments of two different organizations. We have to go for the approach as, Connecting two LANs using a Router.

Steps

Step I: Create two different LANs for the department of SOC of both GEU & GEHU.

Step II: Connect both LANs using a Router

Step III: Assign IP addresses and default gateway to each of the users of both departments.

Step IV: Using ping command, from the command prompt, check the communication b/w the user #1 of SOC of GIEU and user #2 of SOC of GIEU.

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical | Physical x: 1126, y: 697 [Root] 07:12:00

PC4

Physical | Config | Desktop | Programming | Attributes

IP Configuration

| Interface | FastEthernet0 |

IP Configuration

- ○ DHCP   ● Static

IPv4 Address	192.168.1.2
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.4
DNS Server	0.0.0.0

IPv6 Configuration

- ○ Automatic   ● Static

IPv6 Address		/
Link Local Address	FE80::2E0:B0FF:FEA5:9B2
Default Gateway	
DNS Server	

802.1X

☐ Use 802.1X Security

Authentication	MD5
Username	
Password	

☐ Top

GEU
SOC Department

2960-24-TT
Switch0

PC-PT
PC0

USER 1
10.0.0.1

PC-PT
PC1

PC-PT
PC5

Time: 00:15:19

Realtime | Simulation

Scenario 0

Fire | Last Status | Source | Destination | Type | Color | Time(sec) | Periodic | Num | Edit | Delete

New | Delete

Toggle PDU List Window

Copper Straight-Through

Type here to search

30°C ENG 10:11 22-06-2021

File Edit Options View Tools Extensions Window Help

Logical Physical x: 1057, y: 706

[Root] 05:05:00

PC0

Physical Config Desktop Programming Attributes

Command Prompt

```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.2

Pinging 192.168.1.2 with 32 bytes of data:

Request timed out.
Reply from 192.168.1.2: bytes=32 time<1ms TTL=127
Reply from 192.168.1.2: bytes=32 time<1ms TTL=127
Reply from 192.168.1.2: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.1.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

☐ Top

GEU
SOC Department

2960-24TT
Switch0

PC-PT
PC0

PC-PT
PC1

PC-PT
PC5

USER 1
10.0.0.1

Time: 00:11:13

Realtime Simulation

Scenario 0

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

New Delete

Toggle PDU List Window

Copper Straight-Through

Type here to search

30°C ENG 10:07 22-06-2021