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Course: MCA

Section: A

Semester: 2

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Subject Name: CN Lab

Subject Code: PMC 202

Problem Statement: There are two organizations in a city named GEU and GEHU, design a network between the SOC department of GEU and GEHU. Show the communication between user number 1 of GEU and user no. 2 of GEHU.

Objective: to understand how to connect LANS

Step 1: Take two routers

Step 2: Take two switches and 2 PCs

Step 3: Create 2 LANS.

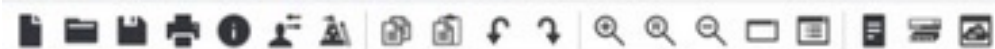
Step 4: Assign separate IP address.

Step 5: Connect with router with a cable.

Step 6: Change router name from config. hostname or routername

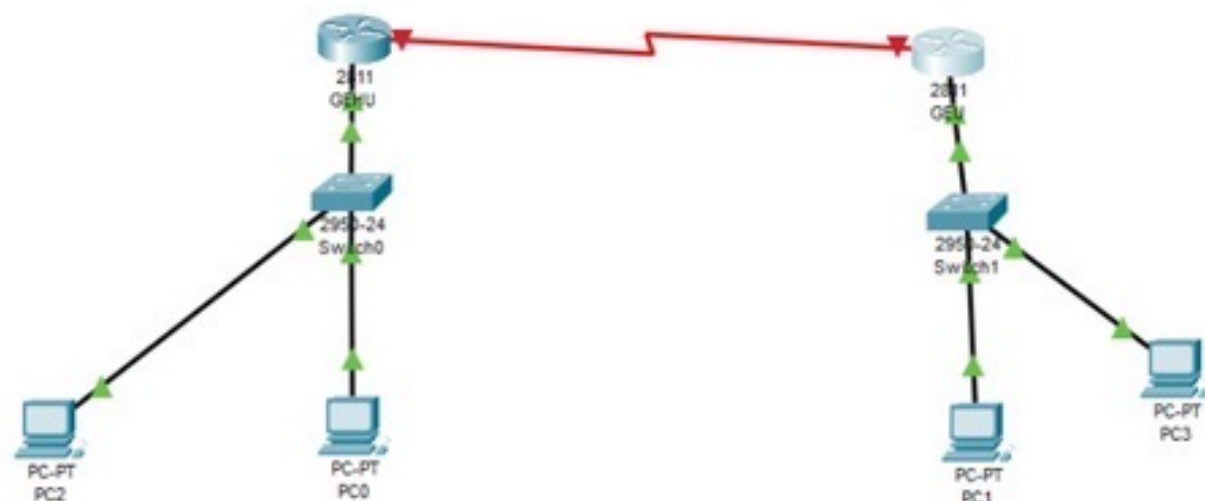
Step 7: Checking is done using Ping command.

Rashi



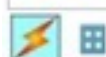
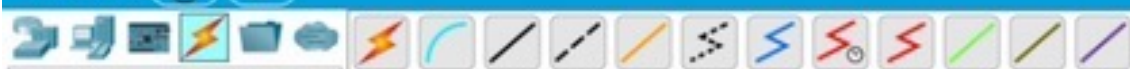
Logical Physical x: 1270, y: 168

[Root] 02:28:30



Time: 00:04:55

Realtime Simulation



Copper Straight-Through





Logical Physical x 753, y: 291



PC1

Physical Config Desktop Programming Attributes

Command Prompt

```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.2.1

Pinging 192.168.2.1 with 32 bytes of data:

Reply from 192.168.2.1: bytes=32 time<1ms TTL=255
Reply from 192.168.2.1: bytes=32 time<1ms TTL=255
Reply from 192.168.2.1: bytes=32 time<1ms TTL=255
Reply from 192.168.2.1: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.2.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

☐ Top

[Root]

00:38:30

Time: 00:01:17

Realtime

Simulation



(Select a Device to Drag and Drop to the Workspace)



Desktop

10:14

22-06-2021





Logical Physical x: 1143, y: 131



PC2

Physical Config Desktop Programming Attributes

## P Configuration

Interface FastEthernet0

## IP Configuration

☐ DHCP ☒ Static

IP Address 192.168.2.2

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

## IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::202:16FF:FE23:88A3

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security☐ Top

[Root]

01:59:30

Time: 00:03:58

Realtime

Simulation



Copper Straight-Through



Desktop

10:17

22-06-2021



Logical Physical x: 100%, y: 150



PC0

Physical Config Desktop Programming Attributes

P Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 192.168.1.2

Subnet Mask 255.255.255.0

Default Gateway 192.168.1.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::2E0:F9FF:FE05:3AAE

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

☐ Top

[Root] 02:05:30

Time: 00:04:10

Realtime Simulation

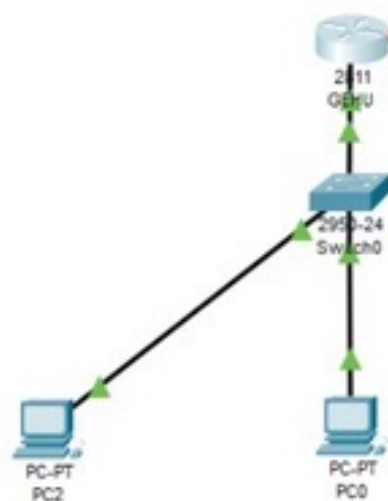


Copper Straight-Through





Logical Physical x: 181, y: 134



GEHU

Physical Config CLI Attributes

## GLOBAL

Settings

Algorithm Settings

## ROUTING

Static

RIP

## SWITCHING

VLAN Database

## INTERFACE

FastEthernet0/0

FastEthernet0/1

Serial0/0/0

## Global Settings

Display Name GEHU

Hostname Router

NVRAM

Erase

Save

Startup Config

Load...

Export...

Running Config

Export...

Merge...

## Equivalent IOS Commands

Press RETURN to get started!

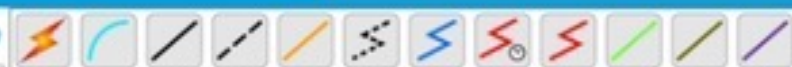
```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0,
changed state to up
```

☐ Top

[Root]

02:30:30

Time: 00:04:59



Realtime

Simulation

Copper Straight-Through



Desktop

10:18

22-06-2021