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Course: MCA

Section: A

University roll No: 2001022

Subject: CN

Subject code: TMC-203.

Q2: Problem statement: There are two organisation - - - - GEHU.

Objective: creating a network between 2 organisation

Description: steps for practical and paste snapshot of network design and configuration.

Step 1: Add 2 Routers on logical screen.

Step 2: Add 2 PCs and 2 LAN

Step 3: Join all the components with copper straight through.

Step 4: Configure both the routers to connect each other.

Step 5: Connect Routers with DTE

Step 6: Configure Router ID addresses

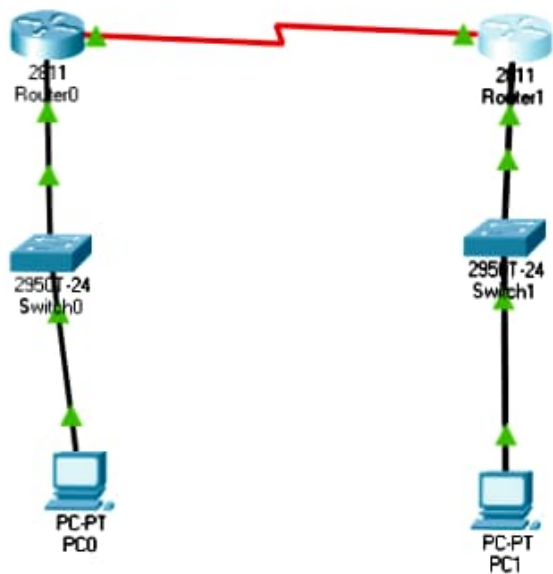
Step 7: Configure PC IP Addresses.

Step 8: Check Network by sending a Package.

Serial0/1/0	
Port Status	<input type="checkbox"/> On
Duplex	<input checked="" type="radio"/> Full Duplex
Clock Rate	64000
IP Configuration	
IPv4 Address	10.0.0.1
Subnet Mask	255.0.0.0
Tx Ring Limit	10

## Equivalent IOS Commands

```
Router(config-if)#  
Router(config-if)#exit  
Router(config)#interface Serial0/1/0  
Router(config-if)#clock rate 64000  
This command applies only to DCE interfaces  
Router(config-if)#ip address 10.0.0.1 255.0.0.0  
Router(config-if)#ip address 10.0.0.1 255.0.0.0  
Router(config-if)#  
Router(config-if)#exit  
Router(config)#interface FastEthernet0/0  
Router(config-if)#  
Router(config-if)#exit  
Router(config)#interface Serial0/1/0  
Router(config-if)#
```



Time: 00:14:04

Realtime Simulation



Scenario 0

New Delete

Toggle PDUI List/Window

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	D
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FastEthernet0/0	
Port Status	<input checked="" type="checkbox"/> On
Bandwidth	<input checked="" type="radio"/> 100 Mbps <input type="radio"/> 10 Mbps <input checked="" type="checkbox"/> Auto
Duplex	<input type="radio"/> Half Duplex <input checked="" type="radio"/> Full Duplex <input checked="" type="checkbox"/> Auto
MAC Address	0004.9AC6.6D01
IP Configuration	
IPv4 Address	192.168.1.1
Subnet Mask	255.255.255.0
Tx Ring Limit	10

## Equivalent IOS Commands

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
ip address 192.168.1.1 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial0/1/0
Router(config-if)#clock rate 64000
This command applies only to DCE interfaces
Router(config-if)#ip address 10.0.0.1 255.0.0.0
Router(config-if)#ip address 10.0.0.1 255.0.0.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
```

## IP Configuration

Interface FastEthernet0

## IP Configuration

☐ DHCP☒ Static

IPv4 Address

192.168.1.2

Subnet Mask

255.255.255.0

Default Gateway

192.168.1.1

DNS Server

0.0.0.0

## IPv6 Configuration

☐ Automatic☒ Static

IPv6 Address

Link Local Address

FE80::290:CFF:FE68:790E

Default Gateway

DNS Server

## 802.1X

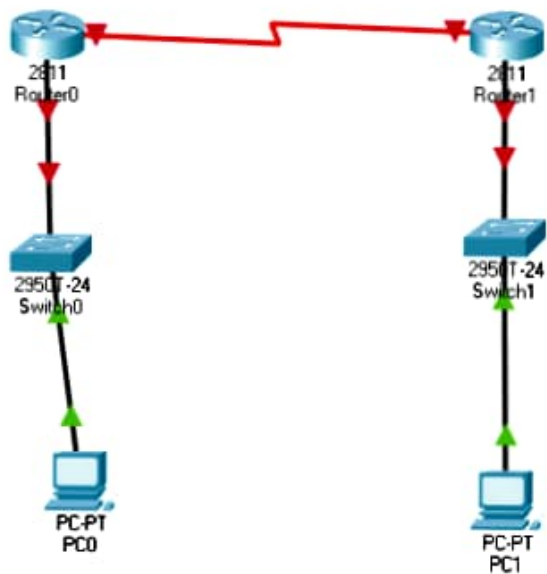
☐ Use 802.1X Security

Authentication

MD5

Username

Password



Time: 00:06:24

Realtime Simulate



Scenario 0

New

Delete

Toggle PDUI List/Window

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	D
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## IP Configuration

Interface FastEthernet0

## IP Configuration

☐ DHCP☒ Static

IPv4 Address

192.168.1.2

Subnet Mask

255.255.255.0

Default Gateway

10.0.0.2

DNS Server

0.0.0.0

## IPv6 Configuration

☐ Automatic☒ Static

IPv6 Address

Link Local Address

FE80:290:CFF:FE6B:790E

Default Gateway

DNS Server

## 802.1X

☐ Use 802.1X Security

Authentication

MD5

Username

Password

