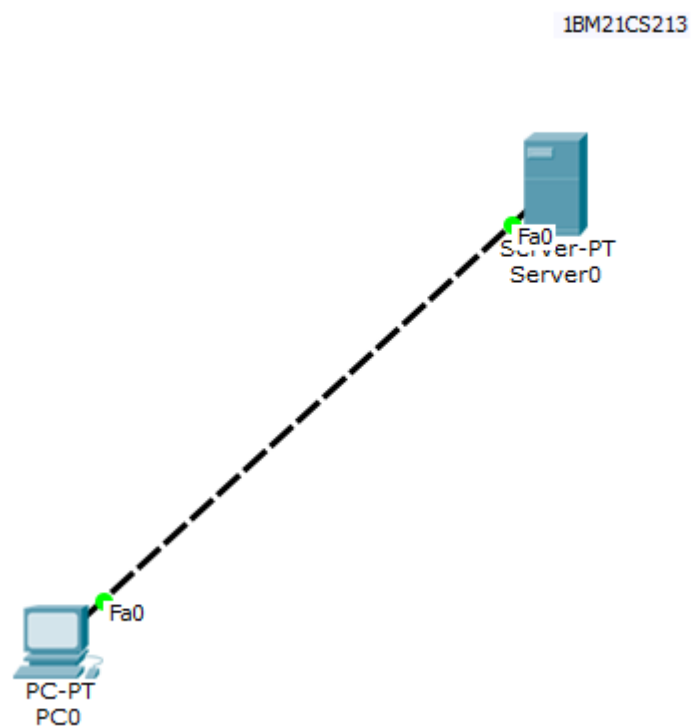


WEEK 5

Configuring HTTP and DNS Server:-

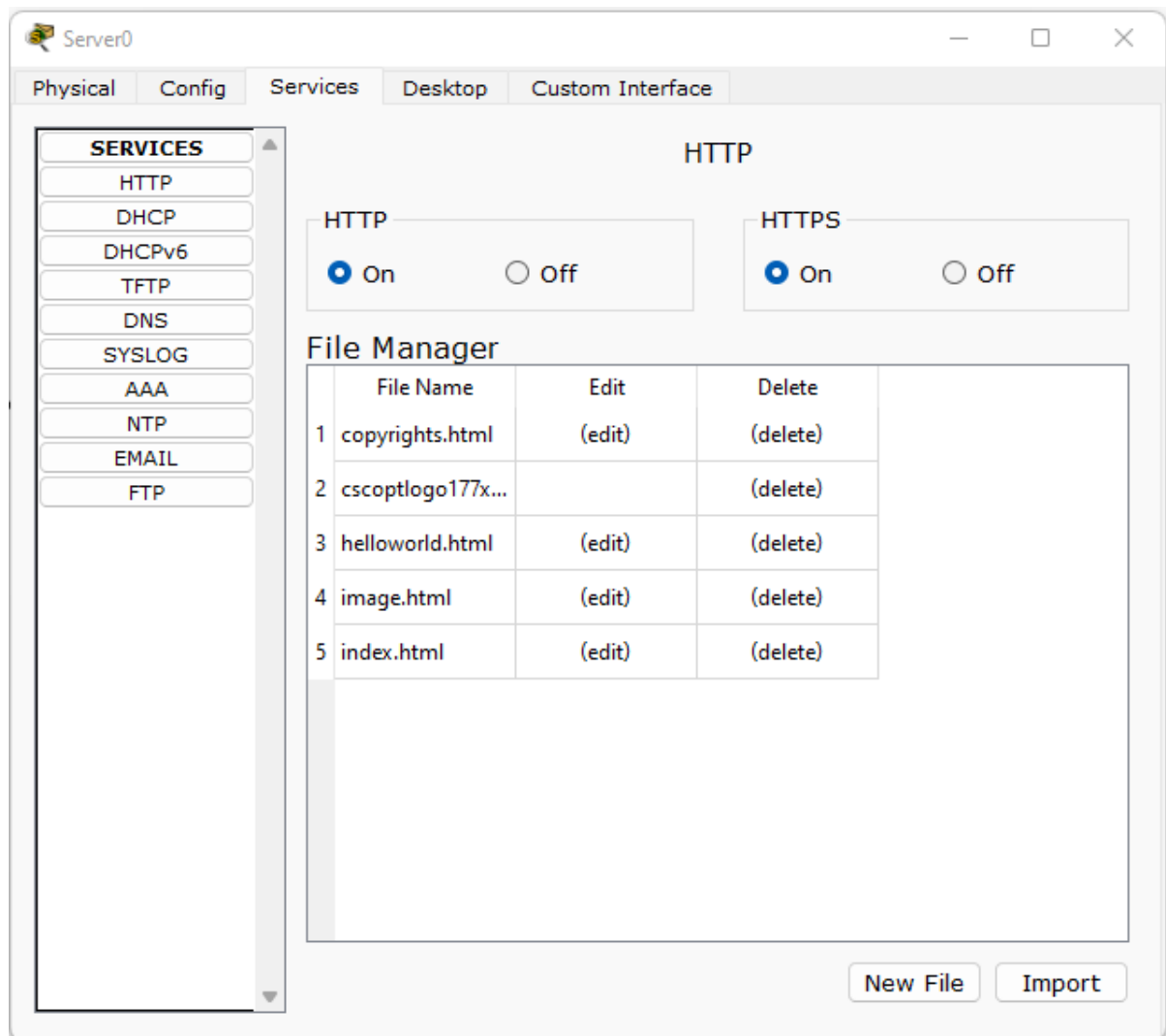
Create a topology consisting of one end device and one server.

Network:-



Procedure:-

1. Create a topology as shown above.
2. Set IP addresses for end devices and server, both should have the same network.
3. Go to Server -> Services -> HTTP -> Click on for both HTTP AND HTTPS



4. Go to Server -> Services -> DNS -> Click on

Enter name: www.cnlab.com

Enter address: 10.0.0.10

Click Add.

The screenshot shows the 'Server0' configuration window with the 'Services' tab selected. The 'DNS' service is configured as follows:

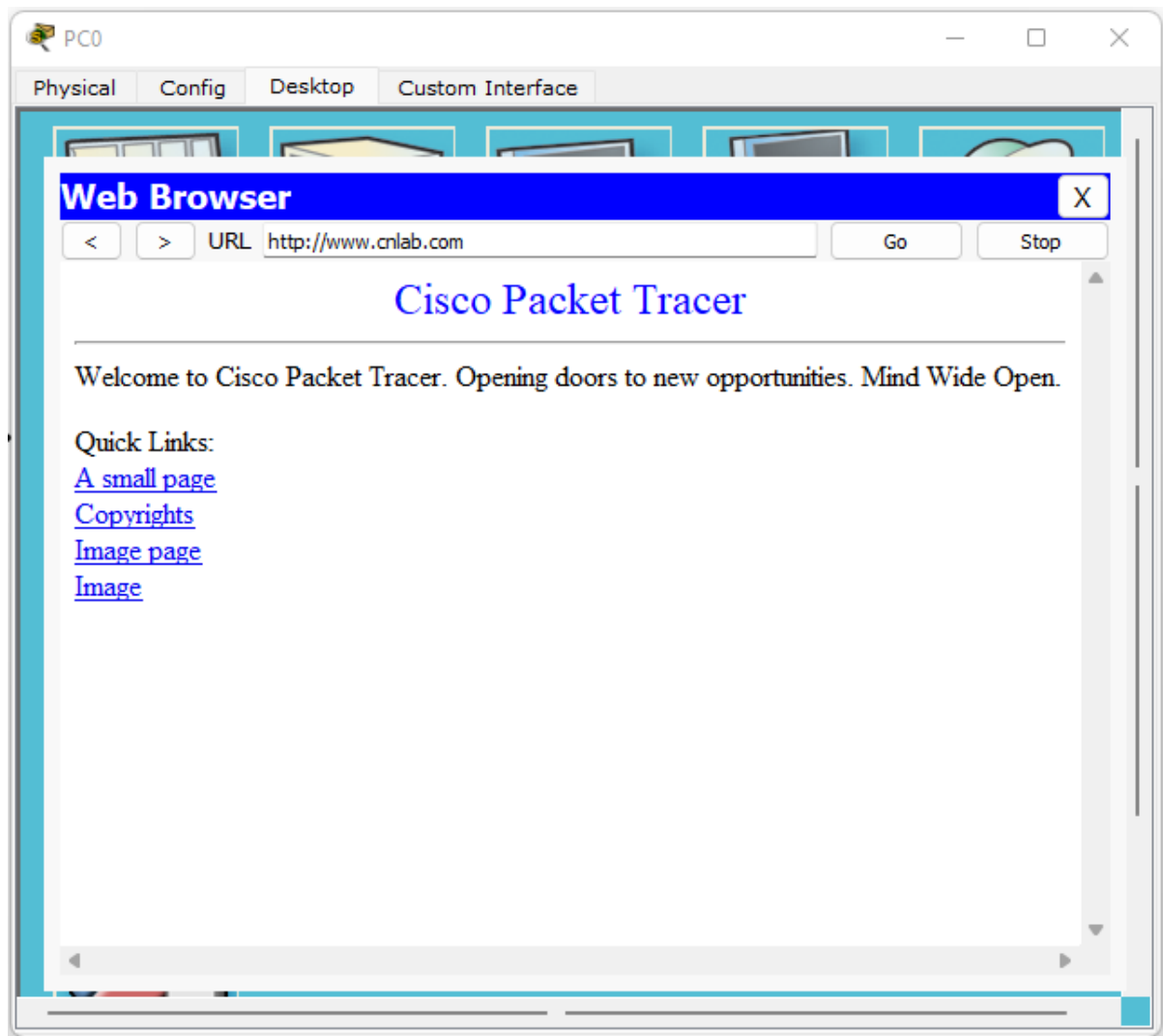
- DNS Service:** ☒ On ☐ Off
- Resource Records:**
 - Name:**
 - Type:**
 - Address:**
- Buttons:** Add, Save, Remove
- Table:**

No.	Name	Type	Detail
0	www.cnlab.com	A Record	10.0.0.10
- DNS Cache:**

5. Click the end device -> Desktop -> Web browser ->

Enter URL: www.cnlab.com

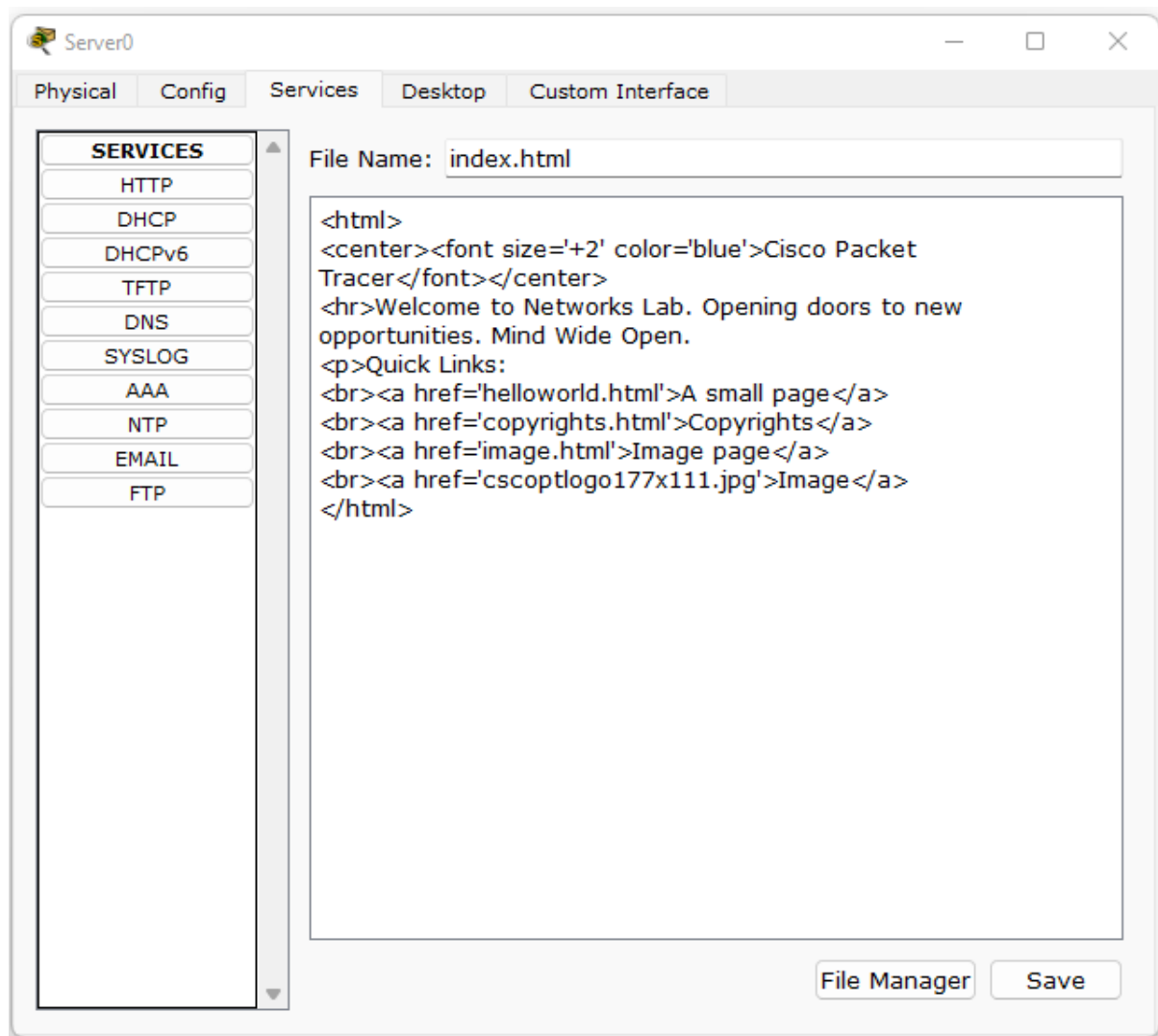
The webpage will be displayed.



6. Close the browser.

7. Click on Server -> Services -> HTTP -> index.html (edit)

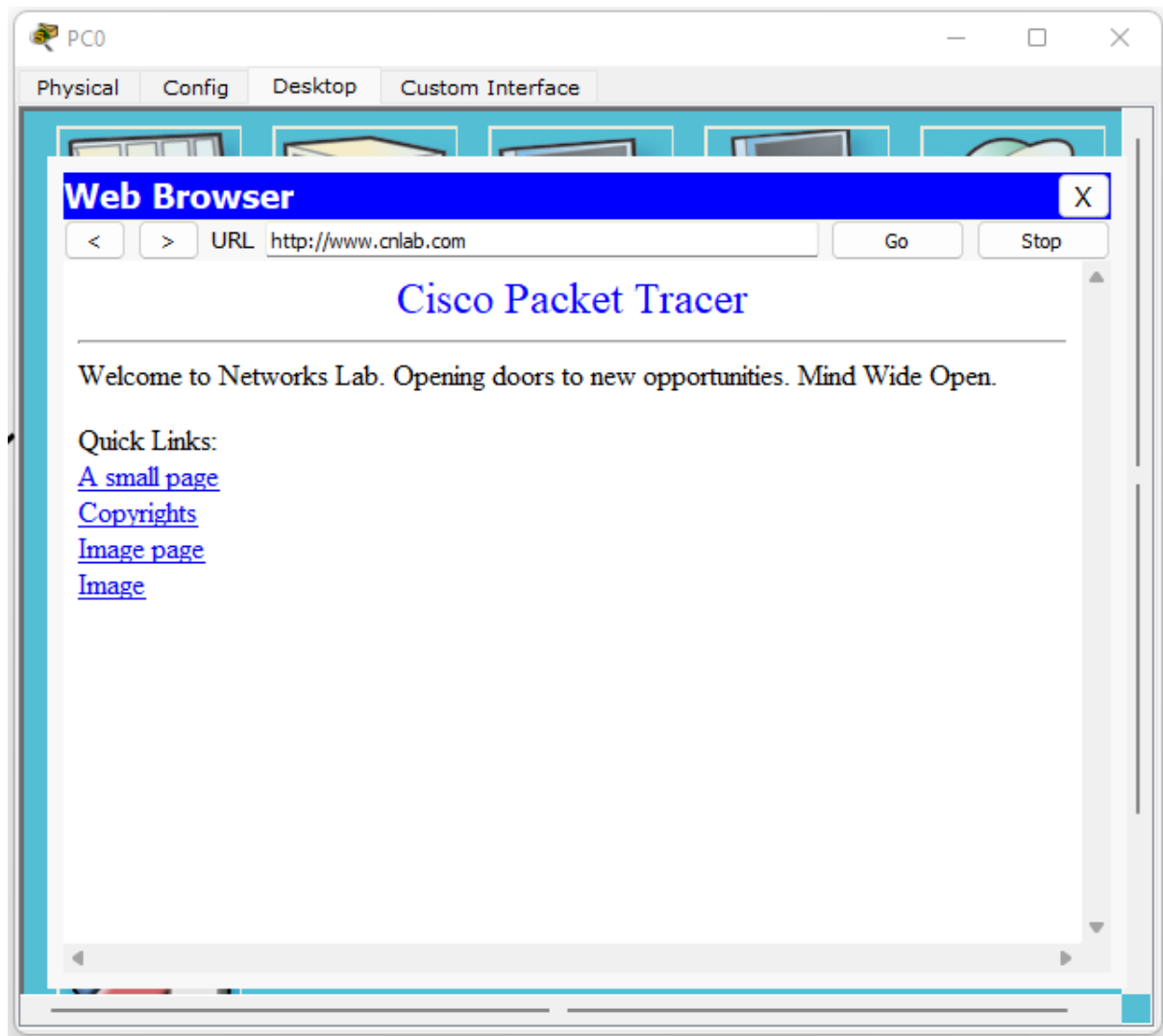
Change the written display content as required.



8. Click the end device -> Desktop -> Web browser ->

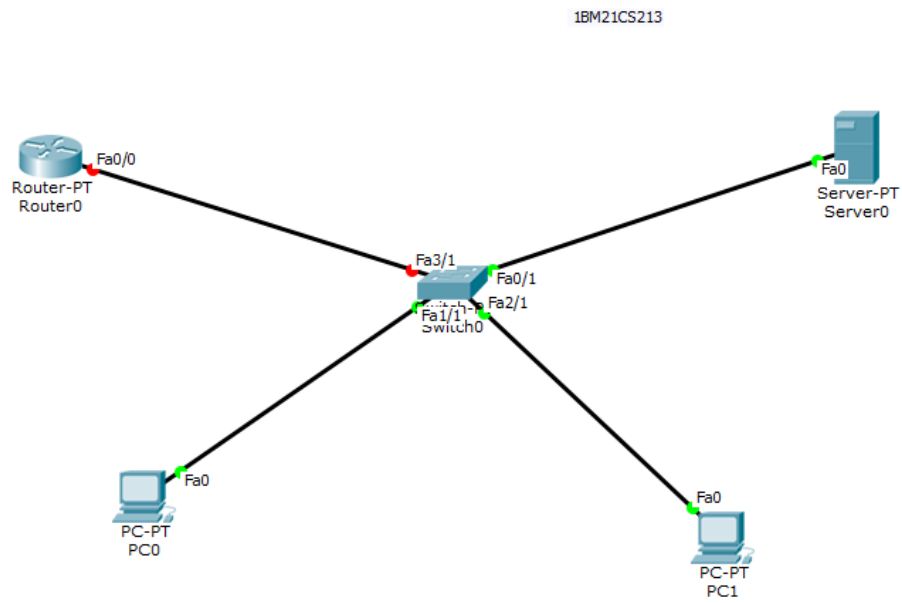
Enter URL: www.cnlab.com

The modified webpage will be displayed.



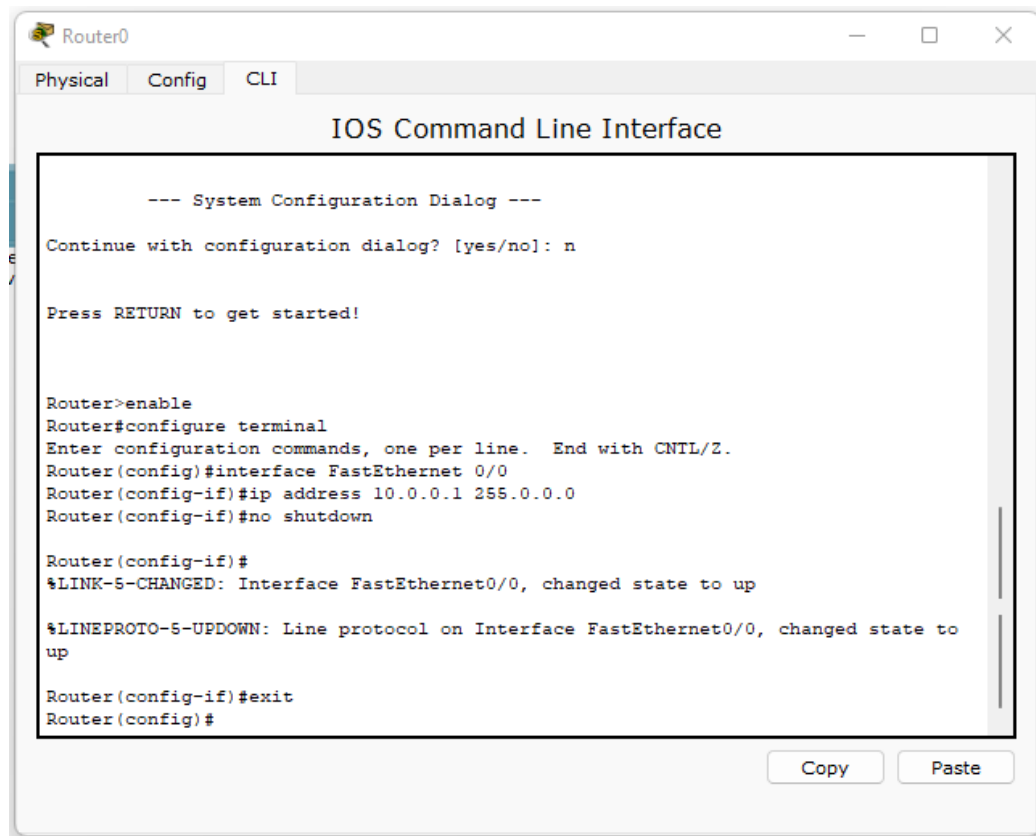
Configuring DHCP:-

Network:-

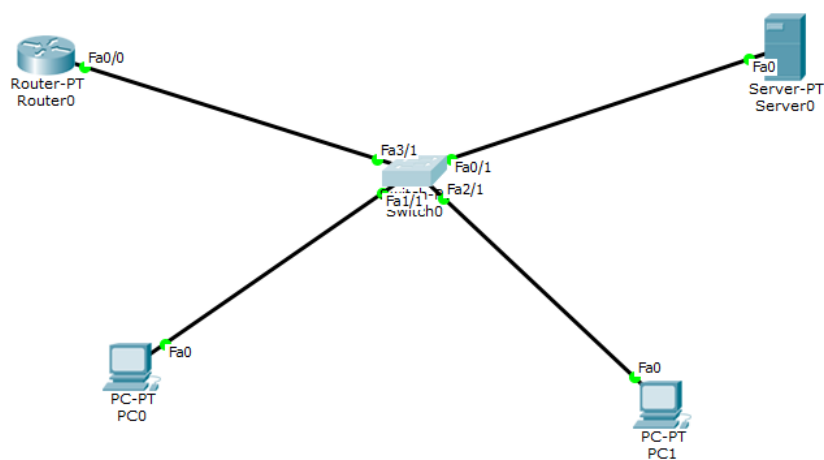


Procedure:-

1. Create a topology as shown above.
2. Configure the IP address of the router.



1BM21CS213



3. Assign IP address to the server (should be the same network)-
10.0.0.10

4. Click on Server -> Services -> DHCP -> Click Service On

Change Pool name to “cnPool”

Enter default gateway – 10.0.0.1 (Router IP address)

Enter DNS Server – 10.0.0.10 (Server IP address)

Enter Start IP address – 10.0.0.1 (Router IP address)

Enter subnet mask – 255.0.0.0

Enter TFTP Server – 10.0.0.1 (Server IP address)

Click on Add.

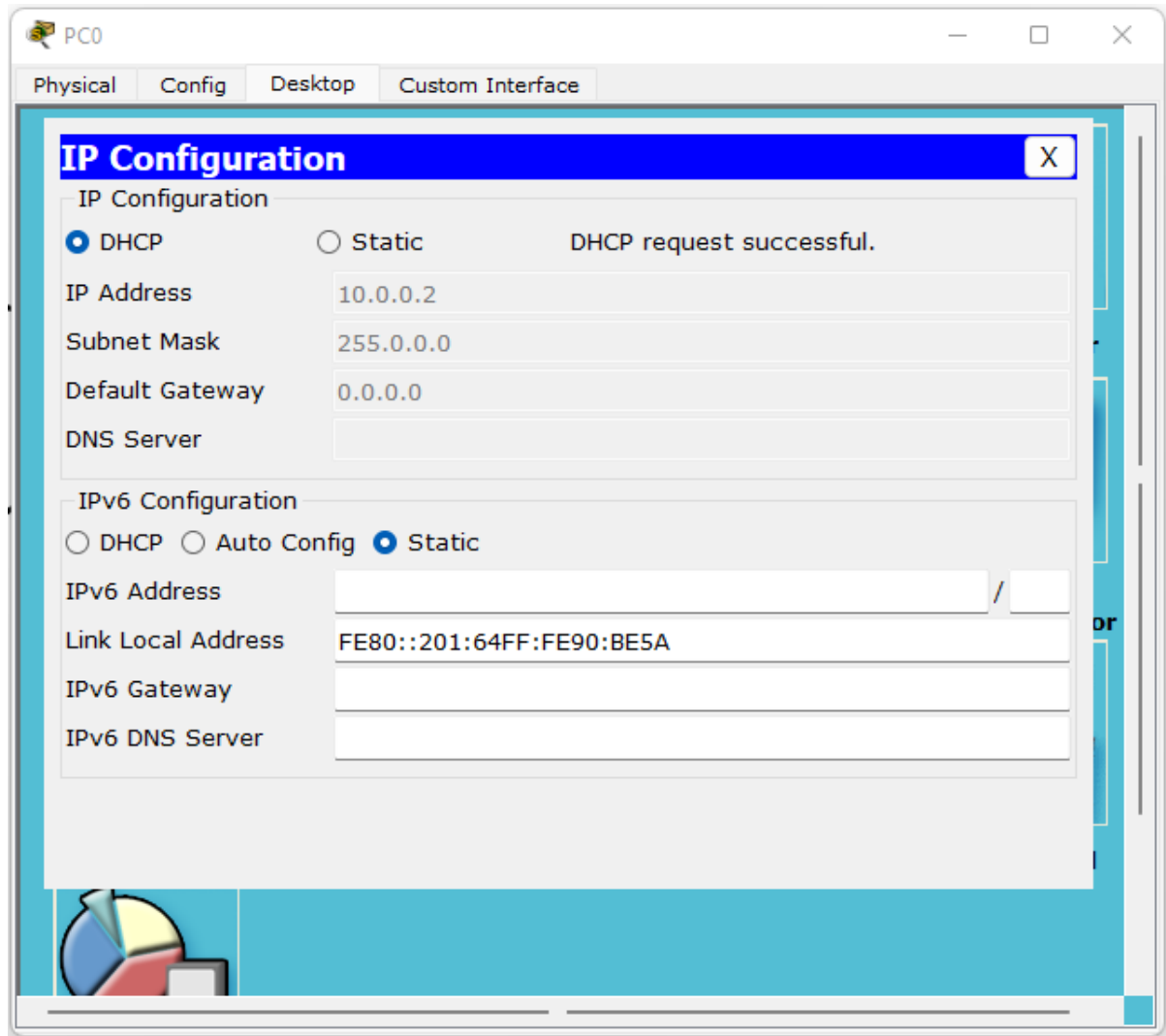
The screenshot shows the 'Server0' configuration window with the 'Services' tab selected. The 'DHCP' service is configured for the 'FastEthernet0' interface and is turned 'On'. The configuration fields are as follows:

- Interface: FastEthernet0
- Service: On
- Pool Name: cnPool
- Default Gateway: 10.0.0.1
- DNS Server: 10.0.0.10
- Start IP Address: 10.0.0.1
- Subnet Mask: 255.0.0.0
- Maximum number of Users: 512
- TFTP Server: 10.0.0.10

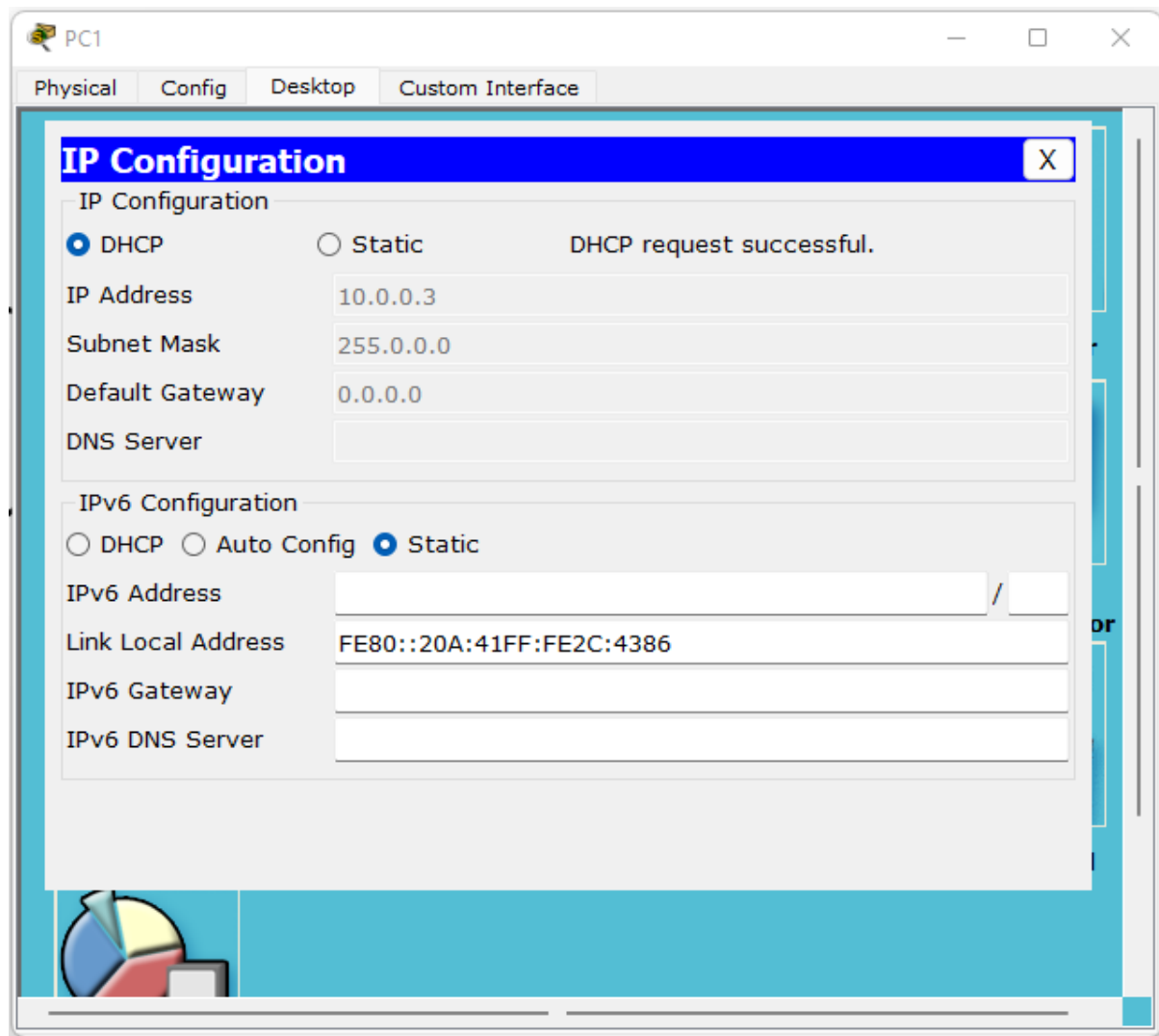
Below the configuration fields are buttons for 'Add', 'Save', and 'Remove'. At the bottom, there is a table showing the DHCP pools:

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server
cnPool	10.0.0.1	10.0.0.10	10.0.0.1	255.0.0.0	512	10.0.0.1
server...	0.0.0.0	0.0.0.0	10.0.0.0	255.0.0.0	512	0.0.0.0

5. Click on PC0 -> Desktop -> IP Configuration
Select DHCP for IP Configuration

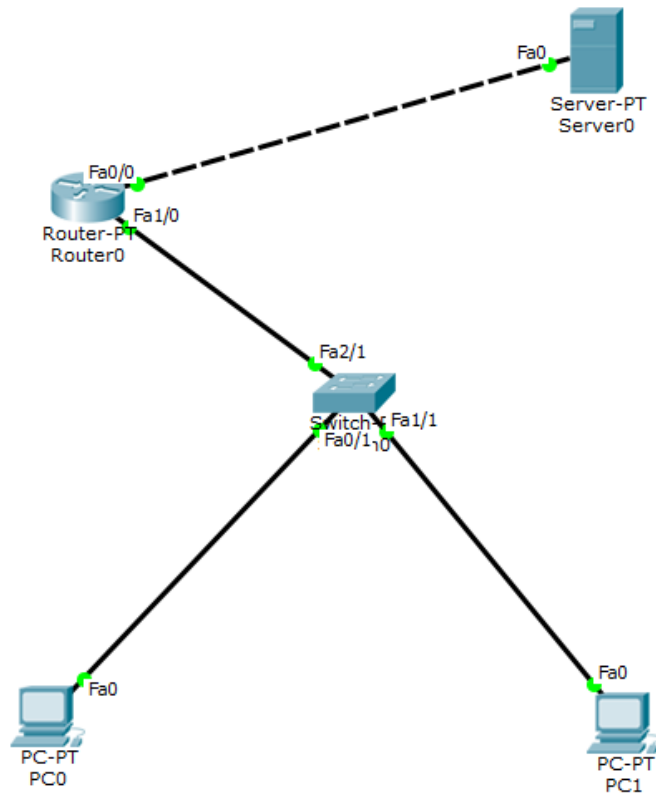


- Click on PC1 -> Desktop -> IP Configuration
Select DHCP for IP Configuration



Configuring DHCP outside LAN:-

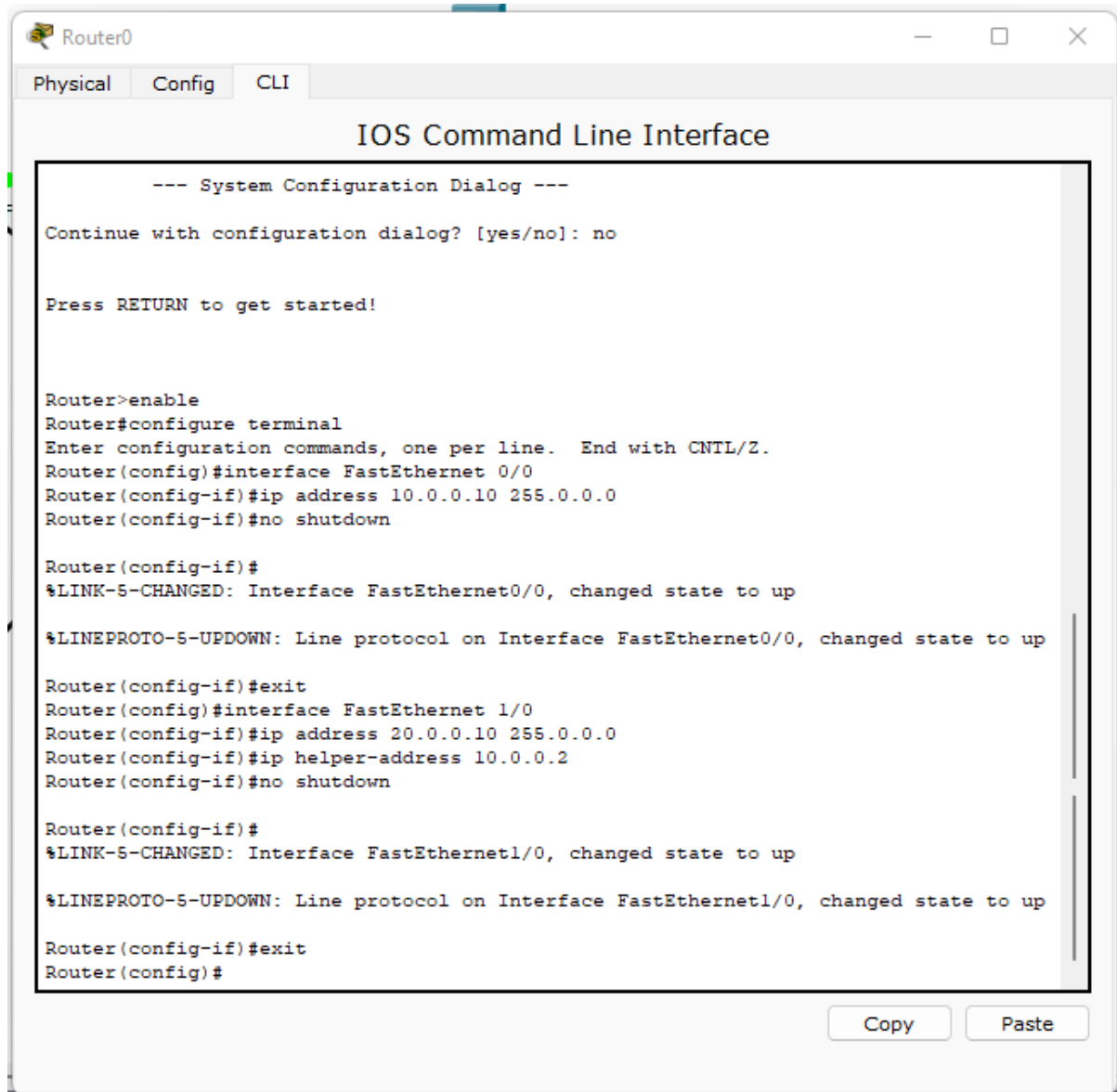
Network:-



1BM21CS213

Procedure:-

1. Create a topology as shown above.
2. Configure the IP address of the router.



3. Assign IP address to the server (should be the same network)-
10.0.0.2

4. Click on Server0 -> Services -> DHCP -> Click Service On

Change Pool name to “CNPool”

Enter default gateway – 10.0.0.10 (Router IP address)

Enter DNS Server – 10.0.0.2 (Server IP address)

Enter Start IP address – 10.0.0.10 (Router IP address)

Enter subnet mask – 255.0.0.0

Enter TFTP Server – 10.0.0.2 (Server IP address)

Click on Add.

The screenshot shows the 'Server0' configuration window with the 'Services' tab selected. The 'DHCP' service is configured for the 'FastEthernet0' interface and is turned 'On'. The configuration fields are as follows:

- Interface: FastEthernet0
- Service: ☒ On ☐ Off
- Pool Name: CNPool
- Default Gateway: 10.0.0.10
- DNS Server: 10.0.0.2
- Start IP Address: 10.0.0.10
- Subnet Mask: 255.0.0.0
- Maximum number of Users: 512
- TFTP Server: 10.0.0.2

Below the configuration fields are three buttons: 'Add', 'Save', and 'Remove'. At the bottom, there is a table listing the configured DHCP pools:

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP
cnPool	20.0.0.10	10.0.0.2	20.0.0.10	255.0.0.0	512	10.0.0.2
CNPool	10.0.0.10	10.0.0.2	10.0.0.10	255.0.0.0	512	10.0.0.2
server...	0.0.0.0	0.0.0.0	10.0.0.0	255.0.0.0	512	0.0.0.0

5. Click on Server1 -> Services -> DHCP -> Click Service On

Change Pool name to “cnPool”

Enter default gateway – 20.0.0.10 (Router IP address)

Enter DNS Server – 10.0.0.2 (Server IP address)

Enter Start IP address – 20.0.0.10 (Router IP address)

Enter subnet mask – 255.0.0.0

Enter TFTP Server – 10.0.0.2 (Server IP address)

Click on Add.

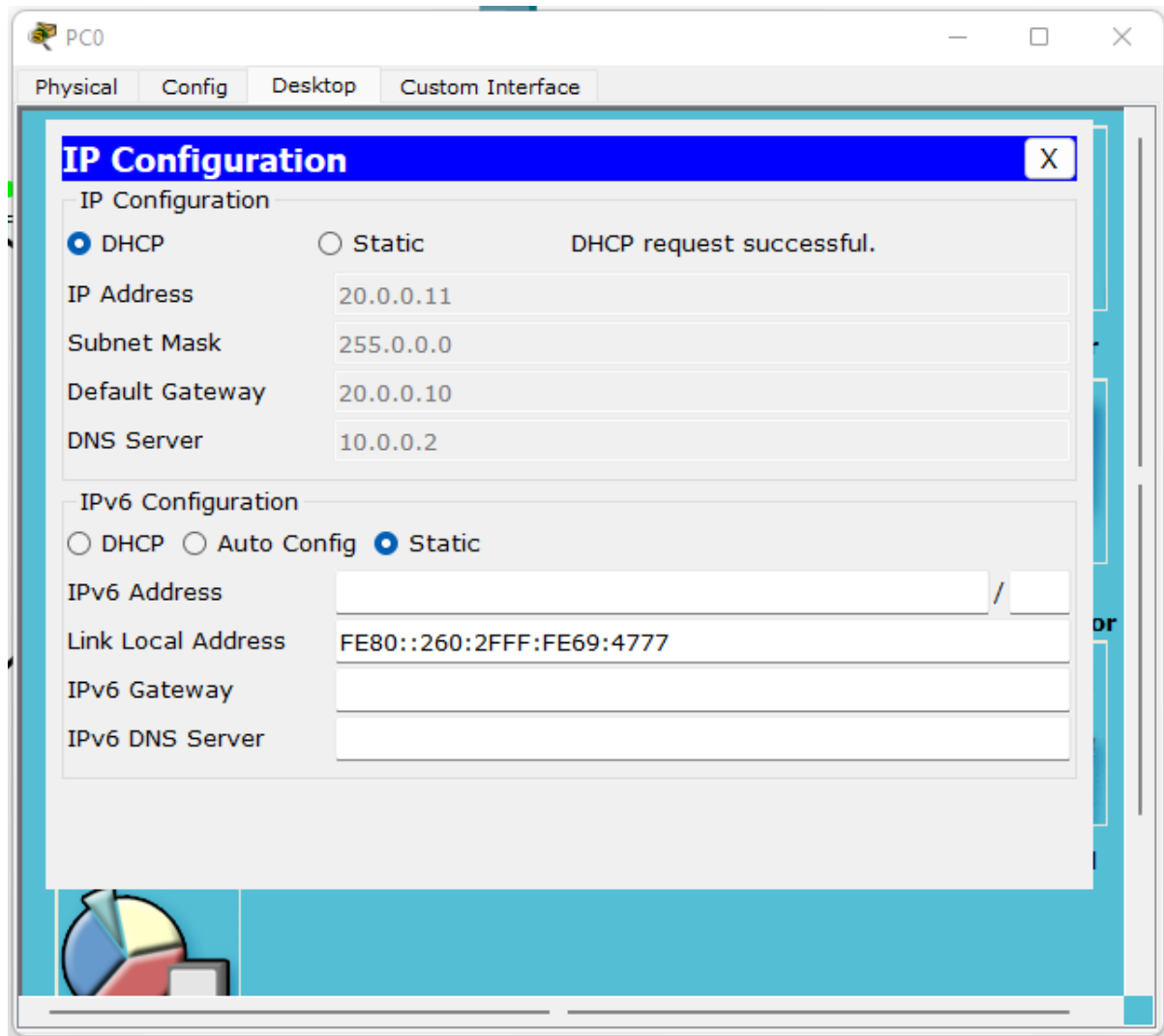
The screenshot shows the 'Server0' configuration window with the 'Services' tab selected. The 'DHCP' service is configured for the 'FastEthernet0' interface and is turned 'On'. The configuration fields are as follows:

- Interface: FastEthernet0
- Service: ☒ On ☐ Off
- Pool Name: cnPool
- Default Gateway: 20.0.0.10
- DNS Server: 10.0.0.2
- Start IP Address: 20.0.0.10
- Subnet Mask: 255.0.0.0
- Maximum number of Users: 512
- TFTP Server: 10.0.0.2

Below the configuration fields are buttons for 'Add', 'Save', and 'Remove'. At the bottom, a table lists the configured DHCP pools:

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP
cnPool	20.0.0.10	10.0.0.2	20.0.0.10	255.0.0.0	512	10.0.0.2
CNPool	10.0.0.10	10.0.0.2	10.0.0.10	255.0.0.0	512	10.0.0.2
server...	0.0.0.0	0.0.0.0	10.0.0.0	255.0.0.0	512	0.0.0.0

- Click on PC0 -> Desktop -> IP Configuration
Select DHCP for IP Configuration



7. Click on PC1 -> Desktop -> IP Configuration
Select DHCP for IP Configuration

