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<b>Class/Section:</b>	9312/S24
<b>Ex.No:</b>	13
<b>Date of Submission</b>	dd.mm.yyyy
<b>Name of the Experiment</b>	<b>FTP server Configuration</b>
<b>Google Drive link of the packet tracer file (give view permission):</b>	<a href="https://drive.google.com/drive/folders/1c8hS0LFVSIsrZ1lmMNOgagsxn7v1lbd6?usp=sharing">https://drive.google.com/drive/folders/1c8hS0LFVSIsrZ1lmMNOgagsxn7v1lbd6?usp=sharing</a>

### Objective(s):

To design and implement FTP server configuration using packet tracer

### Introduction:

The File Transfer Protocol is a standard network protocol used for the transfer of computer files between a client and server on a computer network. FTP is built on a client-server model architecture using separate control and data connections between the client and the server.

Let's now do FTP configuration in Packet Tracer

- 1) Open Cisco Packet Tracer and select 2 End Devices (PC device), 1 Switch, 1 Router, 1 Server.
- 2) Now Connect all the devices using the auto connection.
- 3) Then configure the IP addresses as per the diagram.
- 4) Now just wait for some time to let all the connection status turns green.
- 5) Now we have achieved a connection where a class C IP address is being translated to class A IP Address.
- 6) Go to one of the PC devices and on Desktop tab select CMD.
- 7) Now we need to check the connection to the server by `C:\>ping 10.10.10.2`
- 8) If reply is coming then it means the server is properly configured and connected.
- 9) Go to the Server Services FTP.
- 10) Put on the FTP service and give username and password and click on ADD.
- 11) Come back to PC device and open the CMD and type `C:\>ftp 10.10.10.2`
- 12) It will ask for username and password. Provide the username and password configured earlier.
- 13) Once the connection is established exit from the CMD and go to Text Editor and make a new text file.
- 14) Save the new text file and return to cmd and type `ftp>put filename.txt`
- 15) This will send the text file from the PC device (192.168.0.2) to Server (10.10.10.2).

16) Now to verify that the file has been transferred to the server, so type

17) You will see your Filename in the list.

18) Now to get a file from server to PC type `ftp>get filename.txt`

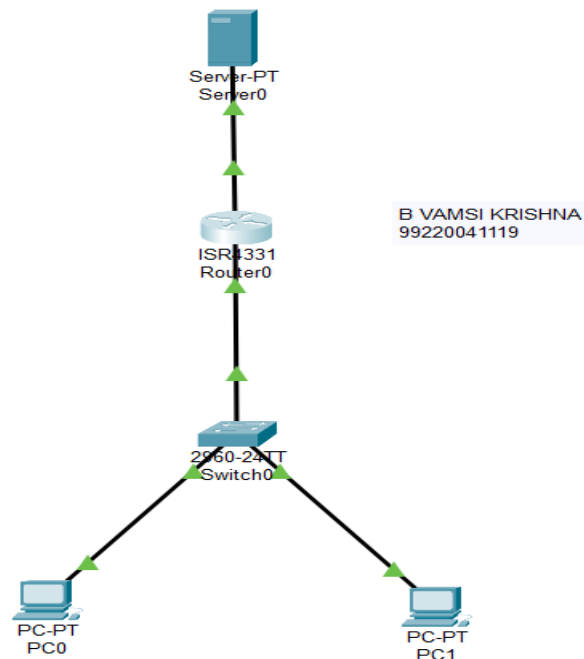
19) Now exit from FTP type ctrl+C, then type dir to check that the file is there in the PC or not.

20) So we have successfully send and got a file from a server using FTP protocol.

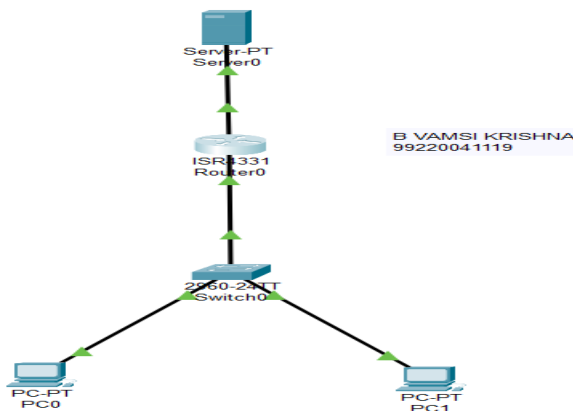
### 1. Device Requirements:

- 1.PC
- 2.ROUTER
- 3.SWITCH
- 4.SERVER

### 2. Network Diagram for your experiment (draw the diagram either hand drawing/ms paint or any other drawing tools)



### 3. Network Diagram (Packet tracer diagram before configuration):



#### 4. Configuration details:

Device Name	Interface Name	IP Address	Subnet mask	Default Gateway
PC0	FA0/1	19.33.0.0	255.0.0.0	192.168.10.1
PC1	FA0/2	19.33.0.1	255.0.0.0	192.168.10.1
SERVER0	GIG0/1	19.0.0.3	255.0.0.0	192.168.10.1
ROUTER0	Gig0/1	19.0.0.3	255.0.0.0	19.0.0.3

#### 5. Describe step by step configuration steps properly (you may copy the commands used in the configuration tab and paste it.)

\$ Pc0-ping 10.0.0.2

\$ [ftp 10.0.0.2](#)

\$ username – manoj & pass-manoj

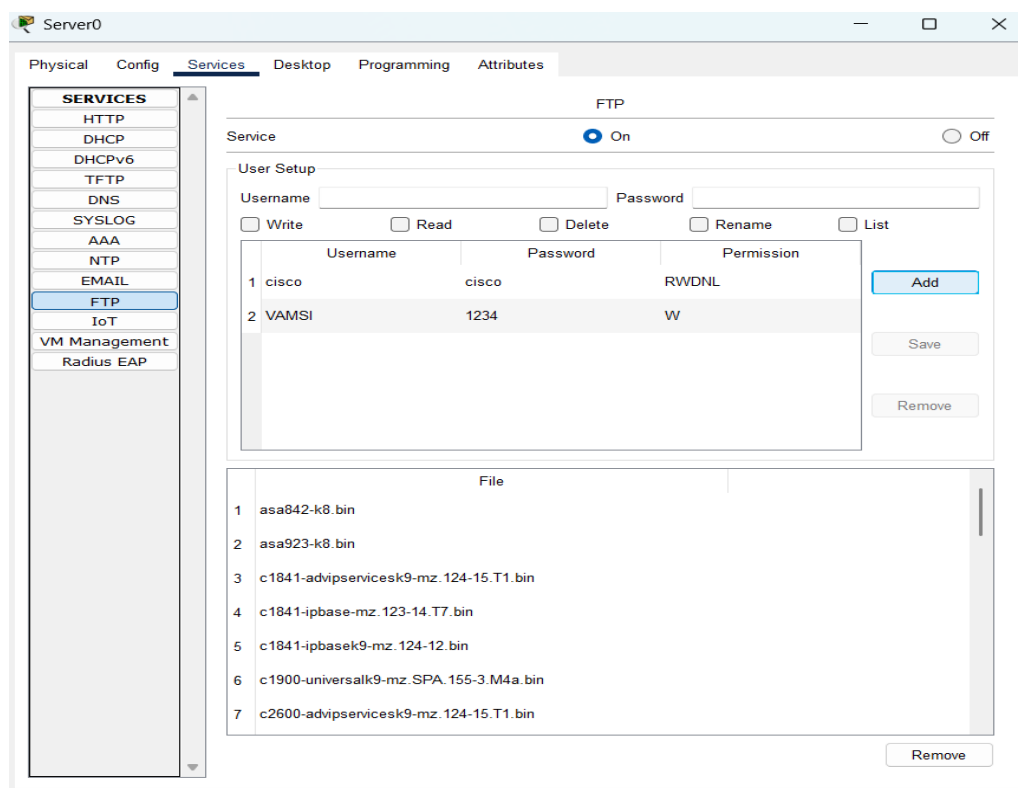
\$put sample.txt

\$ pc1-ping 10.0.0.2

\$ [ftp 10.0.0.2](#)

\$ get sample.txt

#### 6. Output Diagram (Minimum 3 screenshot):



Server0

Physical
Config
Services
Desktop
Programming
Attributes

IP Configuration
X

IP Configuration

☐ DHCP
☒ Static

IPv4 Address
19.0.0.3

Subnet Mask
255.0.0.0

Default Gateway
0.0.0.0

DNS Server
0.0.0.0

IPv6 Configuration

☐ Automatic
☒ Static

IPv6 Address
/

Link Local Address
FE80::2E0:F9FF:FEB2:E60E

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication
MD5

Username

Password

Router0

Physical
Config
CLI
Attributes

GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
SWITCHING
VLAN Database
INTERFACE
GigabitEthernet0/0
GigabitEthernet0/1
GigabitEthernet0/2

GigabitEthernet0/1

Port Status
Bandwidth
Duplex
MAC Address
000A.4195.5902

☐ 1000 Mbps
☐ 100 Mbps
☐ 10 Mbps
☒ On
☒ Auto
☐ Half Duplex
☐ Full Duplex
☒ Auto

IP Configuration
IPv4 Address
10.0.0.1
Subnet Mask
255.0.0.0

Tx Ring Limit
10

Equivalent IOS Commands

```

ip address 192.168.10.1 255.255.255.0
Router(config-if)#ip address 192.168.10.1 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/1
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up
ip address 10.0.0.1 255.0.0.0
Router(config-if)#

```

☐ Top

PC1

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 192.168.10.3

Subnet Mask 255.255.255.0

Default Gateway 192.168.10.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address

Link Local Address FE80::260:2FFF:FE08:D54C

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

☐ Top

Router0

Physical Config CLI Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

GigabitEthernet0/0

GigabitEthernet0/1

GigabitEthernet0/2

GigabitEthernet0/0

Port Status ☐ 1000 Mbps ☒ 100 Mbps ☐ 10 Mbps ☒ On

Bandwidth ☐ Half Duplex ☒ Full Duplex ☒ Auto

Duplex

MAC Address 000A.4195.5901

IP Configuration

IPv4 Address 192.168.10.1

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```
Router(config)#interface GigabitEthernet0/1
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up
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 GigabitEthernet0/0
Router(config-if)#
```

☐ Top

Rubrics	Good	Normal	Poor	Marks
Creation of Topology (4)	Created the topology, Identify the proper devices and making the connections (4)	Created the topology, Identify the proper devices, making the connections But missing some features (3)	Created wrong topology, Failed to Identify the proper devices and making connections (1)	
Verify the connectivity (4)	Verified the connectivity in all the levels (4)	Verified the connectivity at some levels (only some nodes) (2)	Verified the connectivity is not done. (1)	
Timely Completion (2)	Completed the lab before the allotted time (2)	Completed the lab after the deadline (1)	Did not submitted before grading (0)	
Total				

**CONCLUSION (provide conclusion about this experiment):** In this experiment, we configured an Email Server to enable the sending and receiving of emails within a network. By setting up protocols like SMTP (Simple Mail Transfer Protocol) for outgoing mail and IMAP/POP3 for incoming mail, we ensured smooth email communication.