

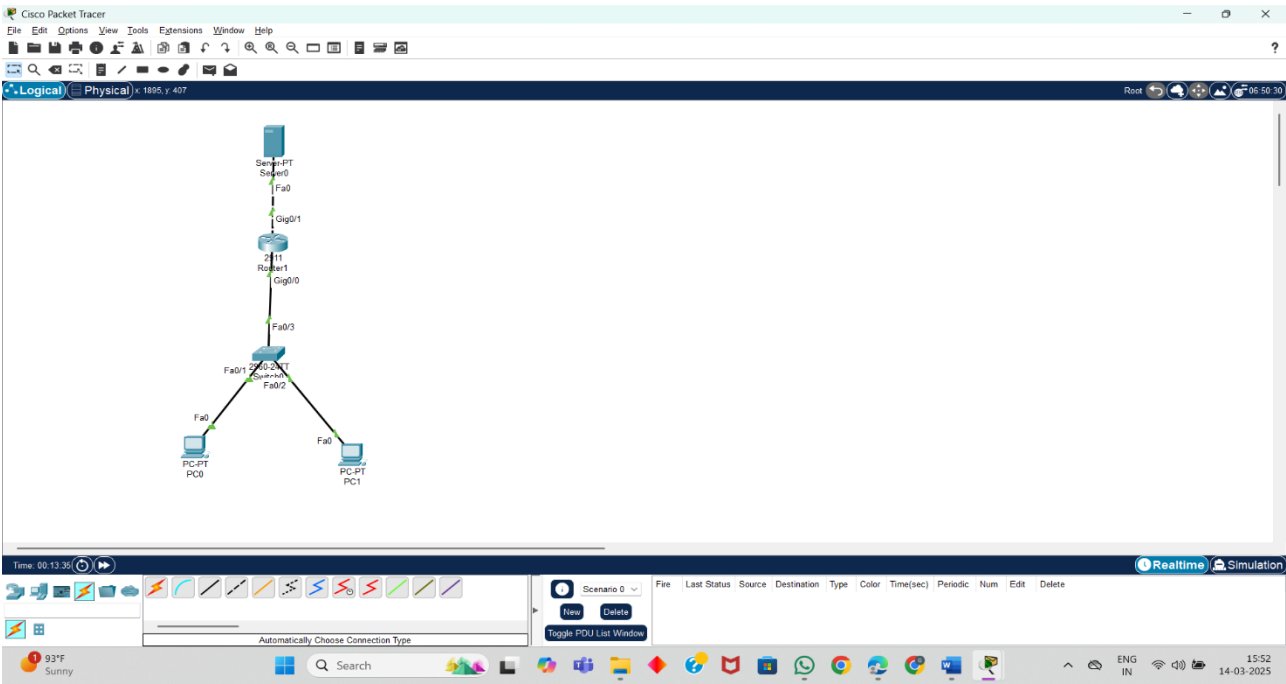
Register No:	99220040570
Name	K. Hanumaan
Class/Section	8501 A/S06
Ex. No:	15
Name of the Experiment	FTP Server Configuration
Google Drive link of the packet tracer file (give view permission):	https://drive.google.com/drive/folders/1efze7AfaTD90i4Rbu_DHTDwrEhyBx-qK?usp=drive_link

1. Device Requirements:

1. Router1
2. Switch0
3. Server0
4. PC0
5. PC1

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

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

1. Ping
2. Configure Terminal
3. ftp 10.0.0.2

Router1:**Router>enable**

Router#

Router#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#interface GigabitEthernet0/0**Router(config-if)#no shutdown**

Router(config-if)#

%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up

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)#

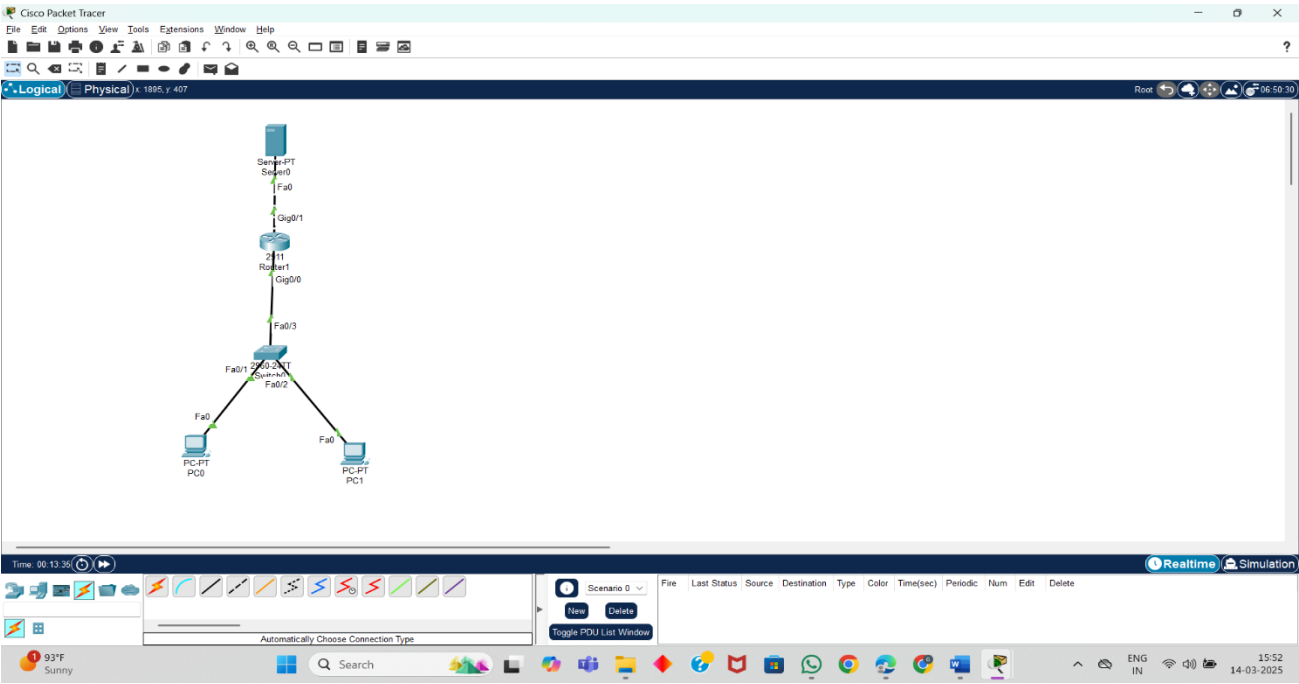
%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up

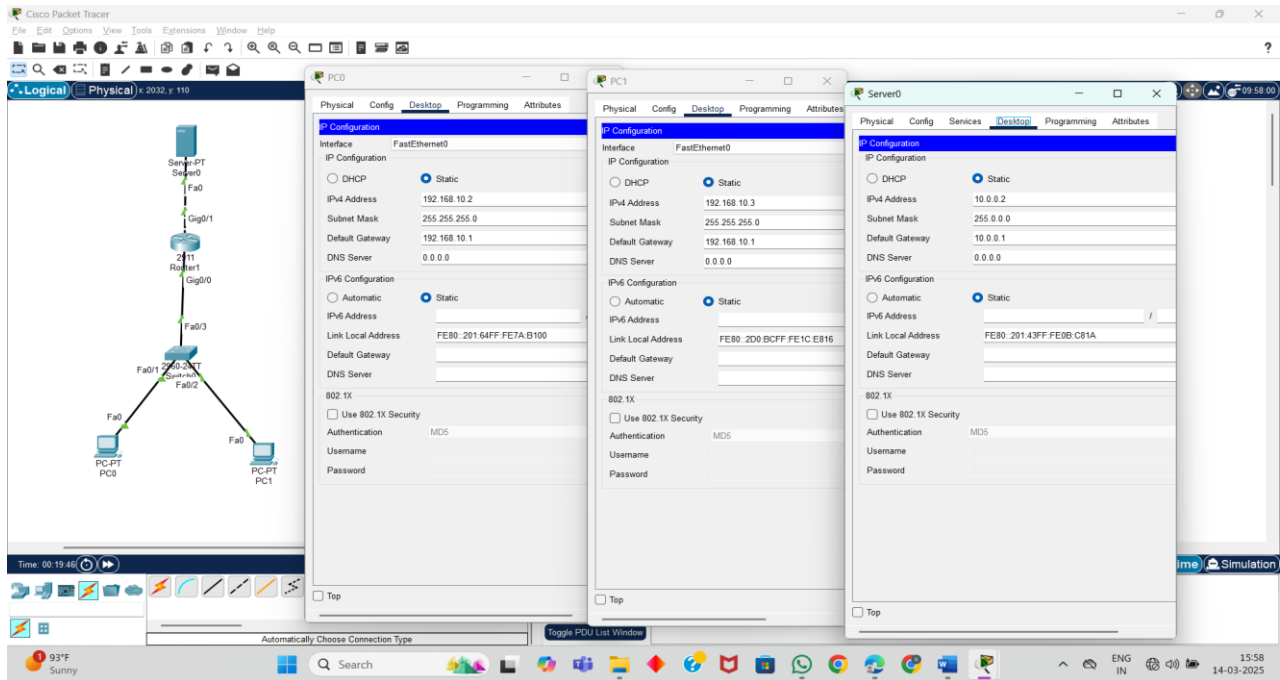
ip address 10.0.0.1 255.0.0.0**Router(config-if)#ip address 10.0.0.1 255.0.0.0**

Router(config-if)#

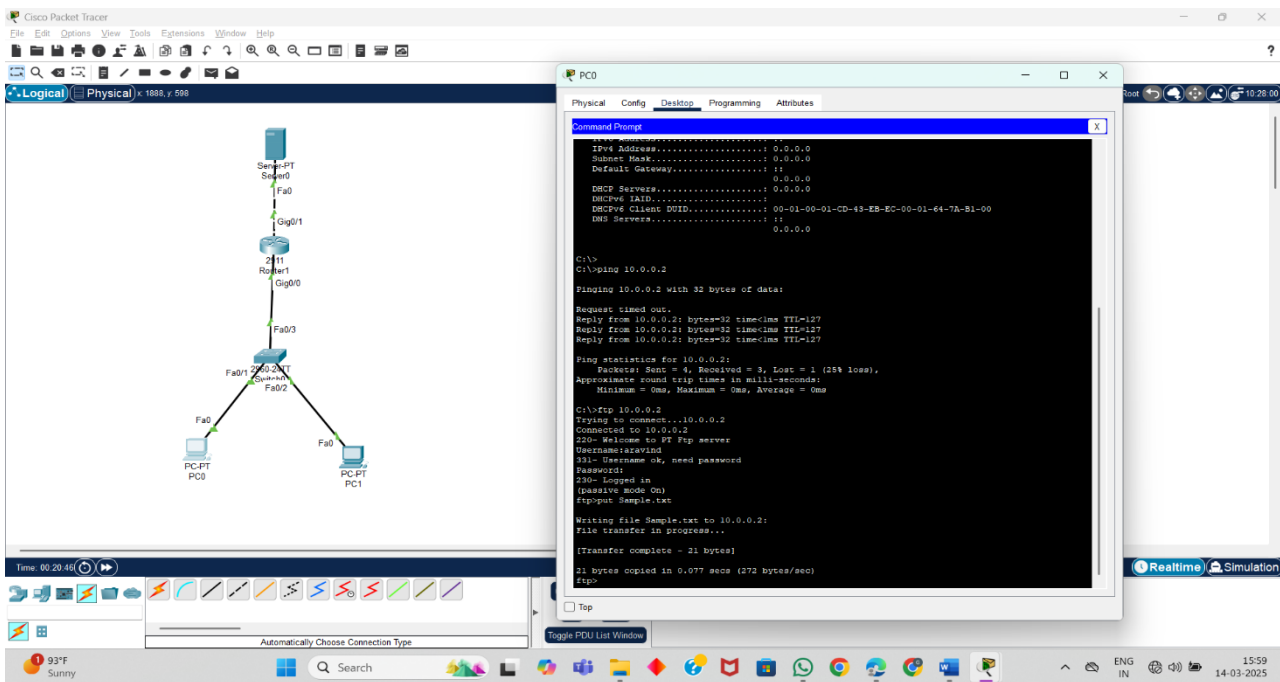
6. Output Diagram (Minimum 3 screenshot):



Network Diagram



Assigning IP Address



The network diagram shows a topology with a Server-PT (192.168.1.1) connected to a Router (211) via GigabitEthernet0/1. The Router is connected to a Switch (211) via GigabitEthernet0/0. The Switch has two FastEthernet ports (Fa0/1 and Fa0/2) connected to PC-PT (192.168.1.2) and PC-PT (192.168.1.3) respectively.

The PC1 Command Prompt shows the following commands and output:

```

Cisco Packet Tracer PC Command Line 1.0
c:\>ipconfig

FastEthernet0 Connection: (default port)

    Connection-specific DNS Suffix...: 
    Link-local IPv6 Address . . . . .: FE80::2D0:BCFF:FEC:8E16
    IPv6 Address. . . . .: ::
    IPv4 Address. . . . .: 192.168.10.3
    Subnet Mask . . . . .: 255.255.255.0
    Default Gateway . . . . .: 192.168.10.1

Bluetooth Connection:

    Connection-specific DNS Suffix...: 
    Link-local IPv6 Address . . . . .: 
    IPv6 Address. . . . .: ::
    IPv4 Address. . . . .: 0.0.0.0
    Subnet Mask . . . . .: 0.0.0.0
    Default Gateway . . . . .: 0.0.0.0

c:\>ftp 10.0.0.2
Trying to connect...10.0.0.2
Connected to 10.0.0.2
220- Welcome to PT Ptp server
Username:aravind
331- Username ok, need password
Password:
230- Logged in
(leave mode on)
ftp>get Sample.txt

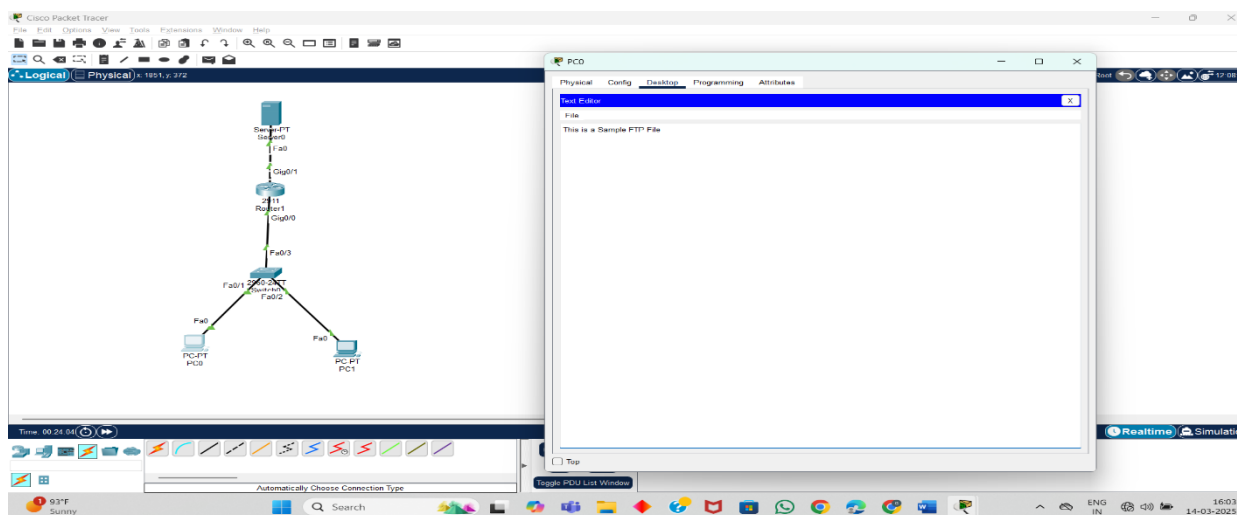
Reading file Sample.txt from 10.0.0.2:
File transfer in progress...
[Transfer complete - 21 bytes]
21 bytes copied in 0 secs
ftp>
  
```

The network diagram is identical to the one above, showing the topology with Server-PT, Router, Switch, and two PCs.

The Server0 configuration window shows the following settings:

- SERVICES:** HTTP, DHCPv6, TFTP, DNS, SYSLOG, AAA, NTP, EMAIL, **FTP**, IoT, VM Management, Radius EAP.
- FTP Service:** On.
- User Setup:**
 - Write: ☐ Read: ☐ Delete: ☐ Rename: ☐ List: ☐
 - Users:

1	Username	Password	Permission
1	cisco	cisco	RWDNL
2	aravind	aravind	RWDNL
- File List:**
 - 1 asa842-k8 bin
 - 2 asa923-k8 bin
 - 3 c1841-advipservicesk9-mz.124-15.T1 bin
 - 4 c1841-ipbase-k9-mz.123-14.T7 bin
 - 5 c1841-ipbasek9-mz.124-12 bin
 - 6 c1900-universalk9-mz.SPA.155-3.M4a bin
 - 7 c2600-advipservicesk9-mz.124-15.T1 bin



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CONCLUSION:

In this experiment, we configured an **FTP (File Transfer Protocol) server** to enable secure file sharing and transfer between devices over a network. By setting up user authentication and defining access permissions, we ensured controlled access to shared files.

Rubrics for Experiment Assessment:

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				

Result: Thus the FTP server configuration has been implemented and verified successfully.