



CHARUSAT

CSPIT

Department of Information Technology

Academic Year: Nov 2021



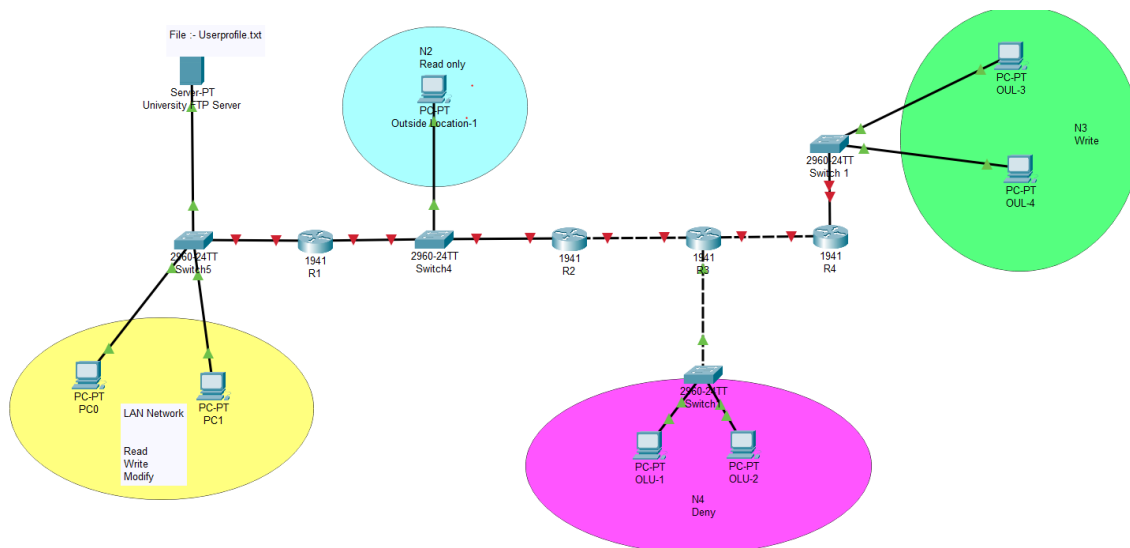
## IT-352 Computer Network Practical Exam Submission

Name:- Mihir Modi

ID:- 19IT068

Practical Title: -

Design topology and configure FTP server for University users.



1. Assign Proper Labelling of Routers, Switches, and Users
  2. IP allocations from **Class B** ONLY
  3. Configure Routing using **RIPv2** Protocol.
  4. Configure FTP server and Add one file on server name is **userprofile.txt** from LAN ( yellow area Network).
  5. Configure File access for different network
    - LAN:- Read , Write , Modify
    - N2:- Read Only
    - N3:- Write only
    - N4:- Deny access
  6. Results Submission
- Note :-** File name (For example 19it001\_name.word) & answer the following Questions.



CHARUSAT

CSPIT

Department of Information Technology

Academic Year: Nov 2021



## IT-352 Computer Network Practical Exam Submission

### Task Details

1. Take a topology screenshot and Fill the TABLE add it to the submission file

Device Name	Interface	IPv4 Address	Subnet Mask	Network Address	Default Gateway
PC3	Gig0/0	155.0.0.5	255.255.0.0	155.0.0.0	155.0.0.2
PC5	Eth0/1/0	148.0.0.5	255.255.0.0	148.0.0.0	148.0.0.1

2. Check connectivity between all networks (per network one screenshot)
3. After completion of all configuration of the topology and FTP from add screenshot of
  - o LAN:- Read , Write , Modify
  - o N2:- Read Only
  - o N3:- Write only
  - o N4:- Deny access
4. After 1 to 3 tasks are completed save the word file into a pdf file (Ex. 19it001\_name.pdf) and upload it at the end of the exam.
5. Upload your .pkt file with the proper file name (Ex. 19it001\_name.pkt)

**Answer the given tasks.**

**T-1**



CHARUSAT

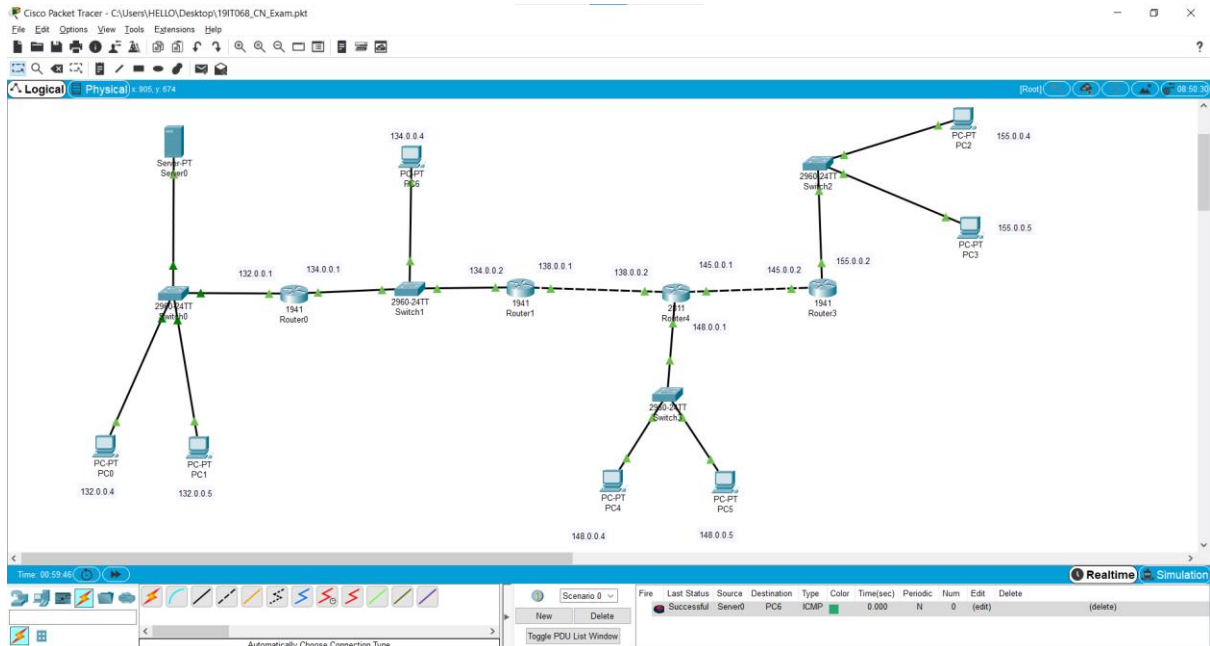
CSPIT

Department of Information Technology

Academic Year: Nov 2021



## IT-352 Computer Network Practical Exam Submission





CHARUSAT

CSPIT

Department of Information Technology

Academic Year: Nov 2021



## IT-352 Computer Network Practical Exam Submission

Router0

Physical

Config

CLI

Attributes

IOS Command Line Interface

Press RETURN to get started.

19IT068>enable  
19IT068#confi  
19IT068#configure ter  
19IT068#configure terminal  
Enter configuration commands, one per line. End with CNTL/Z.  
19IT068(config)#inter  
19IT068(config)#interface gig  
19IT068(config)#interface gigabitEthernet 0/0  
19IT068(config-if)#ip add  
19IT068(config-if)#ip address 132.0.0.1 255.255.0.0  
19IT068(config-if)#no shu  
19IT068(config-if)#no shutdown  
19IT068(config-if)#exit  
19IT068(config)#  
19IT068(config)#inter  
19IT068(config)#interface giga  
19IT068(config)#interface gigabitEthernet 0/1  
19IT068(config-if)#ip add  
19IT068(config-if)#ip address 134.0.0.1 255.255.0.0  
19IT068(config-if)#no shu  
19IT068(config-if)#no shutdown  
  
19IT068(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  
  
19IT068(config-if)#

Ctrl+F6 to exit CLI focus

Copy

Paste

☐ Top



CHARUSAT

CSPIT

Department of Information Technology

Academic Year: Nov 2021



## IT-352 Computer Network Practical Exam Submission

Router1

Physical

Config

CLI

Attributes

IOS Command Line Interface

```
Router1>enable
Router#confi
Router#configure ter
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#inter
Router(config)#interface giga
Router(config)#interface gigabitEthernet 0/0
Router(config-if)#ip add
Router(config-if)#ip address 134.0.0.2 255.0.0.0
Router(config-if)#ip address 134.0.0.2 255.255.0.0
Router(config-if)#no shu
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

Router(config-if)#exit
Router(config)#inter
Router(config)#interface giga
Router(config)#interface gigabitEthernet 0/1
Router(config-if)#ip add
Router(config-if)#ip add
Router(config-if)#ip address 138.0.0.1 255.255.0.0
Router(config-if)#no shu
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to
up
```

Ctrl+F6 to exit CLI focus

Copy

Paste

☐ Top



CHARUSAT

CSPIT

Department of Information Technology

Academic Year: Nov 2021



## IT-352 Computer Network Practical Exam Submission

Router4

Physical Config CLI Attributes

IOS Command Line Interface

```
Router>enable
Router#confi
Router#configure ter
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#inter
Router(config)#interface fa
Router(config)#interface fastEthernet 0/1
Router(config-if)#ip add
Router(config-if)#ip address 145.0.0.1 255.255.0.0
Router(config-if)#no shu
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

Router(config-if)#exit
Router(config)#inter
Router(config)#interface fas
Router(config)#interface fastEthernet 0/0
Router(config-if)#ip add
Router(config-if)#ip address 132.0.0.2 255.255.0.0
Router(config-if)#no shu
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

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

Router(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

Router(config-if)#inter
Router(config-if)#exit
Router(config)#inter
Router(config)#interface eth
Router(config)#interface ethernet 0/1/0
Router(config-if)#ip add
Router(config-if)#ip address 148.0.0.1 255.255.0.0
Router(config-if)#no shu
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface Ethernet0/1/0, changed state to up
```

Ctrl+F6 to exit CLI focus

Copy Paste

☐ Top



CHARUSAT

CSPIT

Department of Information Technology

Academic Year: Nov 2021



## IT-352 Computer Network Practical Exam Submission

```
Router>enable
Router#confi
Router#configure ter
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#inter
Router(config)#interface giga
Router(config)#interface gigabitEthernet 0/0
Router(config-if)#ip add
Router(config-if)#ip address 155.0.0.2 255.255.0.0
Router(config-if)#no shu
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

Router(config-if)#
Router(config-if)#exit
Router(config)#inter
Router(config)#interface giga
Router(config)#interface gigabitEthernet 0/1
Router(config-if)#i[ add
Router(config-if)#ip add
Router(config-if)#ip address 145.0.0.2 255.255.0.0
Router(config-if)#no shu
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to
up
```

Ctrl+F6 to exit CLI focus

Copy Paste

☐ Top



CHARUSAT

CSPIT

Department of Information Technology

Academic Year: Nov 2021



## IT-352 Computer Network Practical Exam Submission

Server0

Physical

Config

Services

Desktop

Programming

Attributes

SERVICES

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

IoT

VM Management

Radius EAP

FTP

Service ☒ On ☐ Off

User Setup

Username

N1

Password

N1

☒ Write ☒ Read ☐ Delete ☒ Rename ☐ List

	Username	Password	Permission
1	N1	N1	RWN
2	N2	N2	R
3	N3	N3	RW/DN

Add

Save

Remove

File

1	asa842-k8.bin
2	asa923-k8.bin
3	c1841-advisericeck9-mz-124-15-T1.bin

Remove

☐ Top





CHARUSAT

CSPIT

Department of Information Technology

Academic Year: Nov 2021



## IT-352 Computer Network Practical Exam Submission

Server0

Physical

Config

Services

Desktop

Programming

Attributes

SERVICES

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

IoT

VM Management

Radius EAP

FTP

Service ☒ On ☐ Off

User Setup

Username

N1

Password

N1

☒ Write

☒ Read

☐ Delete

☒ Rename

☐ List

	Username	Password	Permission
2	N2	N2	R
3	N3	N3	RWDNL
4	N4	N4	W

Add

Save

Remove

File

1 asa842-k8.bin

2 asa923-k8.bin

3 c1841-advincerick9-mz-124-15-T1 bin

Remove

☐ Top



CHARUSAT

CSPIT

Department of Information Technology

Academic Year: Nov 2021



## IT-352 Computer Network Practical Exam Submission

```
Router0
Physical Config CLI Attributes
IOS Command Line Interface

19IT068>
19IT068>ena
19IT068>enable
19IT068#confi
19IT068#configure ter
19IT068#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
19IT068 (config)#router
19IT068 (config)#router rip
19IT068 (config-router)#version 2
19IT068 (config-router)#net
19IT068 (config-router)#network 132.0.0.1
19IT068 (config-router)#network 134.0.0.1
19IT068 (config-router)#exit
19IT068 (config)#%IP-4-DUPADDR: Duplicate address 132.0.0.1 on
GigabitEthernet0/0, sourced by 0050.0F20.9780

Ctrl+F6 to exit CLI focus
Copy Paste
Top
```



CHARUSAT

CSPIT

Department of Information Technology

Academic Year: Nov 2021



## IT-352 Computer Network Practical Exam Submission

Router1

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Router>enable
Router#configu
Router#configure ter
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#router rip
Router(config-router)#version 2
Router(config-router)#network 134.0.0.2
Router(config-router)#network 138.0.0.1
Router(config-router)#exit
Router(config)#
```

Ctrl+F6 to exit CLI focus

Copy Paste

☐ Top



CHARUSAT

CSPIT

Department of Information Technology

Academic Year: Nov 2021



## IT-352 Computer Network Practical Exam Submission

```
Router4
Router>enable
Router#confi
Router#configure ter
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router rip
Router(config-router)#version 2
Router(config-router)#network 138.0.0.2
Router(config-router)#network 145.0.0.1
Router(config-router)#exit
Router(config)#
Router(config)#router rip
Router(config-router)#vers
Router(config-router)#version 2
Router(config-router)#network 148.0.0.1
Router(config-router)#exit
Router(config)#
```

Ctrl+F6 to exit CLI focus

Copy Paste

☐ Top



CHARUSAT

CSPIT

Department of Information Technology

Academic Year: Nov 2021



## IT-352 Computer Network Practical Exam Submission

```
Router3
Physical Config CLI Attributes
IOS Command Line Interface

Router>enable
Router#configu
Router#configure ter
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router rip
Router(config-router)#version 2
Router(config-router)#network 145.0.0.2
Router(config-router)#network 155.0.0.2
Router(config-router)#exit
Router(config)#

Ctrl+F6 to exit CLI focus
Copy Paste
Top
```



CHARUSAT

CSPIT

Department of Information Technology

Academic Year: Nov 2021



## IT-352 Computer Network Practical Exam Submission

```
C:\>dir

Volume in drive C has no label.
Volume Serial Number is 5E12-4AF3
Directory of C:\

1/1/1970    5:30 PM           30      MIhir.txt
1/1/1970    5:30 PM           26      sampleFile.txt
                    56 bytes          2 File(s)

C:\>ftp 132.0.0.6
Trying to connect...132.0.0.6
Connected to 132.0.0.6
220- Welcome to PT Ftp server
Username:N1
331- Username ok, need password
Password:
230- Logged in
(passive mode On)
ftp>put MIhir.txt
%Error opening c:MIhir.txt (No such file or directory)
ftp>put MIhir.txt

Writing file MIhir.txt to 132.0.0.6:
File transfer in progress...

[Transfer complete - 30 bytes]
```

☐ Top



CHARUSAT

CSPIT

*Department of Information Technology*

Academic Year: Nov 2021



## IT-352 Computer Network Practical Exam Submission

The screenshot shows a Packet Tracer PC Command Line window for PC6. The window has tabs for Physical, Config, Desktop, Programming, and Attributes. The Desktop tab is active, and a Command Prompt window is open. The Command Prompt shows the following text:

```
Packet Tracer PC Command Line 1.0
C:\>ftp 132.0.0.6
Trying to connect...132.0.0.6
Connected to 132.0.0.6
220- Welcome to PT Ftp server
Username:N2
331- Username ok, need password
Password:
230- Logged in
(passive mode On)
ftp>get MIhir.txt

Reading file MIhir.txt from 132.0.0.6:
File transfer in progress...

[Transfer complete - 30 bytes]

30 bytes copied in 0.066 secs (454 bytes/sec)
ftp>
```

At the bottom left of the Command Prompt window, there is a checkbox labeled "Top".



CHARUSAT

CSPIT

Department of Information Technology

Academic Year: Nov 2021



## IT-352 Computer Network Practical Exam Submission

```
Packet Tracer PC Command Line 1.0
C:\>ftp 132.0.0.6
Trying to connect...132.0.0.6

%Error opening ftp://132.0.0.6/ (Timed out)
.

(Disconnecting from ftp server)

C:\>ftp 132.0.0.6
Trying to connect...132.0.0.6
Connected to 132.0.0.6
220- Welcome to PT Ftp server
Username:N3
331- Username ok, need password
Password:
230- Logged in
(passive mode On)
ftp>
```

**Don't Allow Listing :**





CHARUSAT

CSPIT

Department of Information Technology

Academic Year: Nov 2021



## IT-352 Computer Network Practical Exam Submission

```
PC2
Physical Config Desktop Programming Attributes
Command Prompt
Trying to connect...132.0.0.6
Connected to 132.0.0.6
220- Welcome to PT Ftp server
Username:n4

%Error ftp://132.0.0.6/ (No such Account)
332- Need account for login

C:\>ftp 132.0.0.6
Trying to connect...132.0.0.6
Connected to 132.0.0.6
220- Welcome to PT Ftp server
Username:N4
331- Username ok, need password
Password:
230- Logged in
(passive mode On)
ftp>dir

Listing /ftp directory from 132.0.0.6:
%Error ftp://132.0.0.6/ (No such file or directory or Permission
denied)
550-Requested action not taken. permission denied).

ftp>
```

☐ Top



CHARUSAT

CSPIT

Department of Information Technology

Academic Year: Nov 2021



## IT-352 Computer Network Practical Exam Submission

```
PC2
Physical Config Desktop Programming Attributes
Command Prompt
C:\>
C:\>dir

Volume in drive C has no label.
Volume Serial Number is 5E12-4AF3
Directory of C:\

1/1/1970    5:30 PM           20      Mihir2.txt
1/1/1970    5:30 PM           26      sampleFile.txt
                                46 bytes      2 File(s)

C:\>ftp 132.0.0.6
Trying to connect...132.0.0.6
Connected to 132.0.0.6
220- Welcome to PT Ftp server
Username:N4
331- Username ok, need password
Password:
230- Logged in
(passive mode On)
ftp>put Mihir2.txt

Writing file Mihir2.txt to 132.0.0.6:
File transfer in progress...

[Transfer complete - 20 bytes]

20 bytes copied in 0.145 secs (137 bytes/sec)
ftp>
```

Ans :



CHARUSAT

CSPIT

Department of Information Technology

Academic Year: Nov 2021



## IT-352 Computer Network Practical Exam Submission

