School Network System Project Report

Course Code : CSE314   (Fall-21)

Course Title : Computer Networks Lab

under the guidance of

Mr. Md. Azizul Hakim

Lecturer (Senior Scale)

Department of Computer Science and Engineering

Faculty of Science and Information Technology

Daffodil International University

Submitted By:

Md. Abdullah Ibna Harun

ID: 193-15-13426

Batch: 54

Section: A(O-1)

Email: abdullah15-13426@diu.edu.bd

Department Of CSE

Faculty of FSIT.

Daffodil International University

Date of Performance   : 02-12-2021

Date of Submission   : 16-12-2021

Question & Answer.
----

1. Give a short description of your project (What is the project about)
ANS: It is basically a network design project. This network can provide services, such as registration, school directories, course schedules, and email accounts, and many others. (Remember, network services are generally provided by servers). Collaborative software allows many users to work on a document or project concurrently. For example, educators can contribute their ideas about new curriculum standards by, email, or website of the school.

2. Did you use Static or DHCP for configuring the end devices?
ANS: Yes, I use DHCP.

3. Which Routing Protocol has used you?
ANS: I Used RIP version 2.

4. Is there any VLAN?
ANS: No. they are using a common network for email, webs, and monitoring.
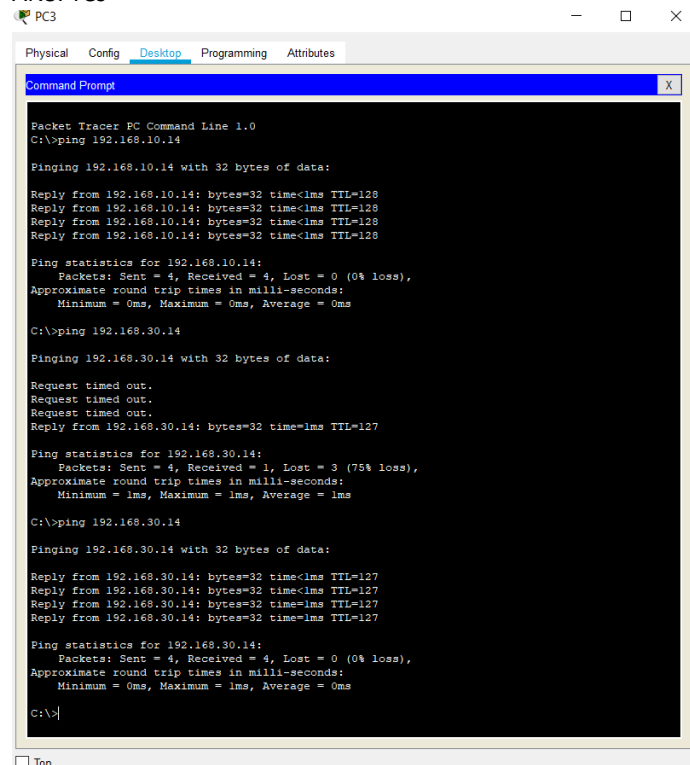
5. Is there any NAT?
ANS: NO.

6. What are the contributions of Member 1, Member 2, and Member 3 (if any)?
ANS: I Have no teammates. I complete it Alone.

7. Send data using ping command from one network to another network.
ANS: Yes

8. If there is any VLAN then send data from one VLAN to another VLAN

ANS: No, Because A teacher can monitor students and send data/email by using computers.

TOPOLOGY
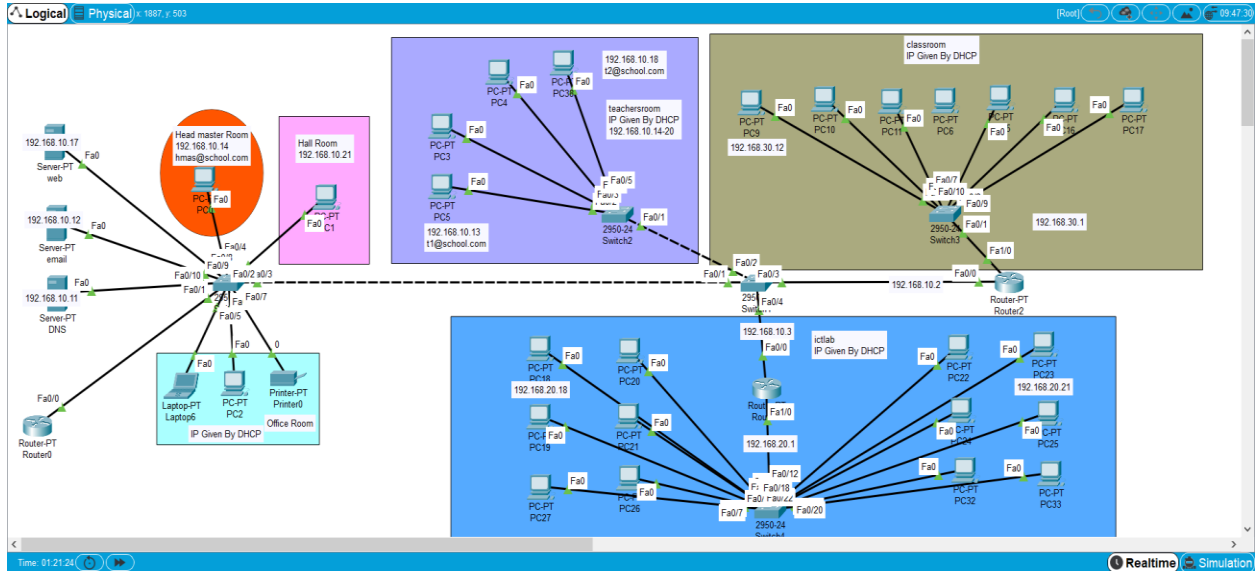
WEB BROWSING

Router 0
///////////
Enable
Config terminal
Int fa1/0
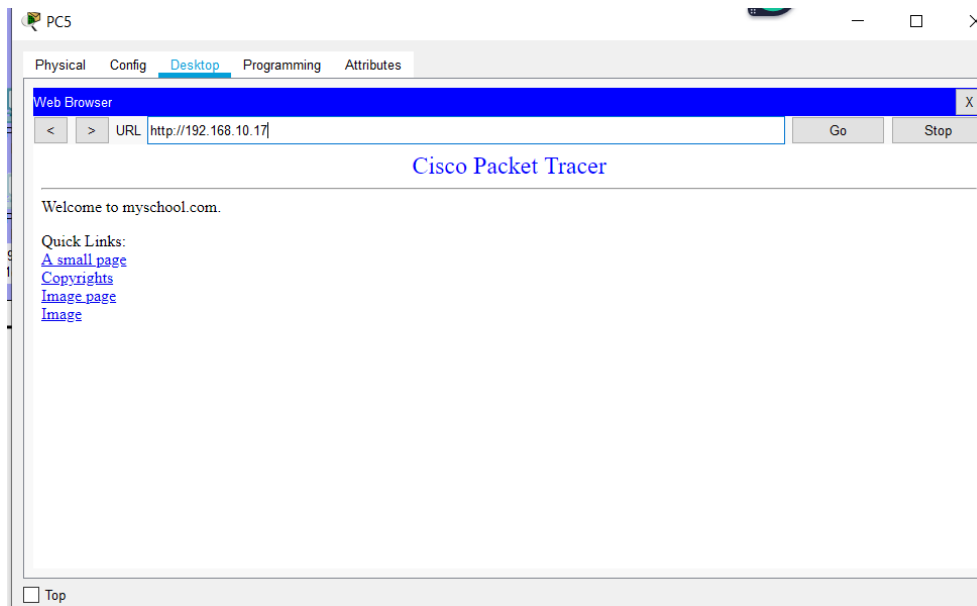Ip add 192.168.0.1 255.255.255.0
Exit
Int fa0/0
Ip add 192.168.10.1 255.255.255.0
No shutdown

IP DHCP pool School
network 192.168.10.0 255.255.255.0
default-router 192.168.10.1
DNS-server 8.8.8.8
IP DHCP excluded-address 192.168.10.1 192.168.10.10

router rip
version 2
network 192.168.10.0
network 192.168.20.0
network 192.168.30.0
no auto summery
exit

Router 1
//////////
Enable
Config terminal
Int fa0/0
Ip add 192.168.10.3 255.255.255.0
No shutdown
Exit
Int fa1/0
Ip add 192.168.20.1 255.255.255.0
No shutdown
Exit

IP DHCP pool ictlab
network 192.168.20.0 255.255.255.0
default-router 192.168.20.1
DNS-server 8.8.8.8
IP DHCP excluded-address 192.168.20.1 192.168.20.10

```
router rip
version 2
network 192.168.10.0
network 192.168.20.0
network 192.168.30.0
no auto summery
exit

Router 2
//////////
Enable
Config terminal
Int fa0/0
Ip add 192.168.10.2 255.255.255.0
No shutdown
Exit
Int fa1/0
Ip add 192.168.30.1 255.255.255.0
No shutdown
Exit

IP DHCP pool classroom
network 192.168.30.0 255.255.255.0
default-router 192.168.30.1
DNS-server 8.8.8.8
IP DHCP excluded-address 192.168.30.1 192.168.30.10

router rip
version 2
network 192.168.10.0
network 192.168.20.0
network 192.168.30.0
no auto summery
exit
```
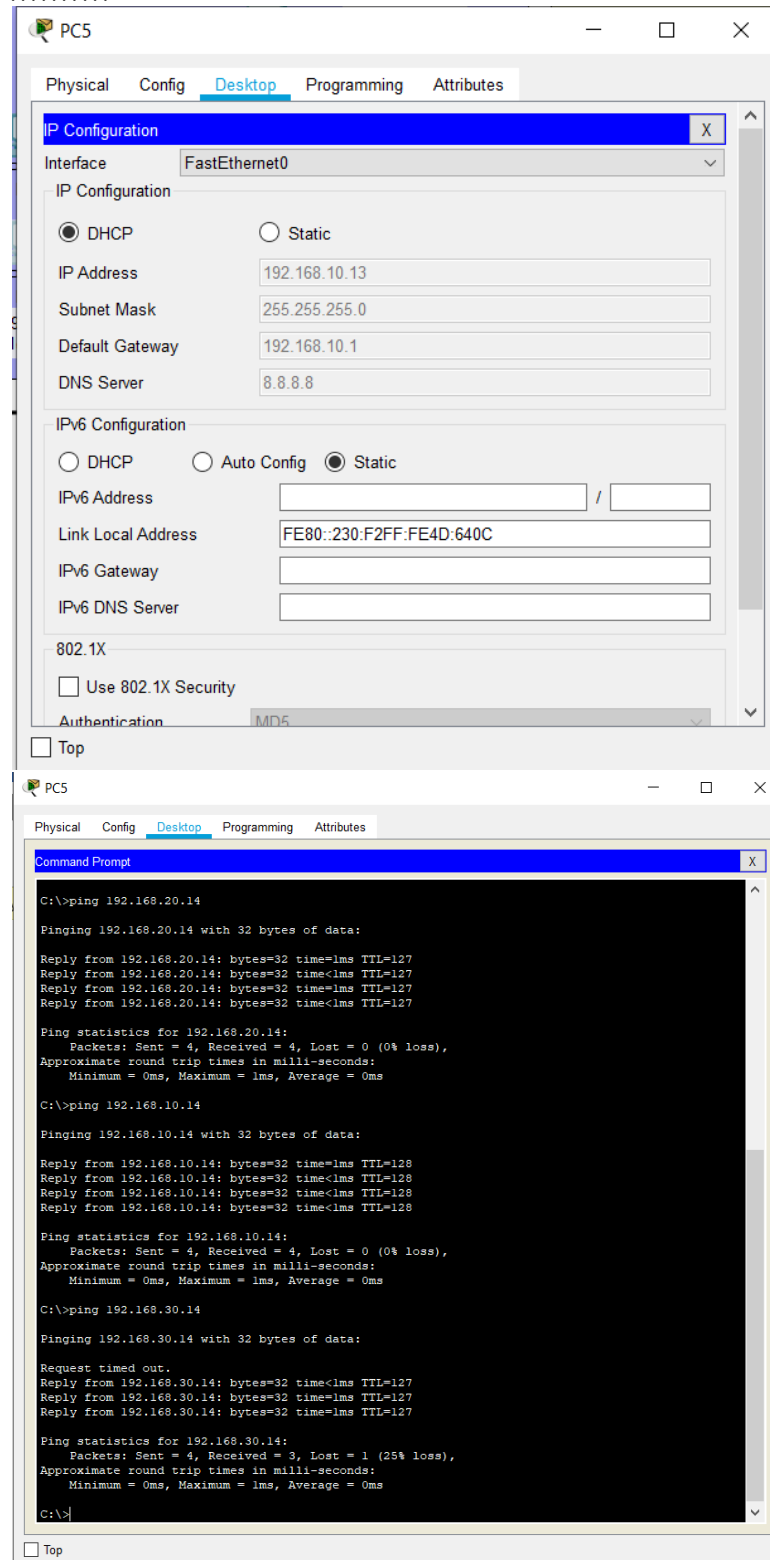
PING TEST
//////////

EMAIL
///////
Server

Config for teachers 1 & 2

PC38 — □ ✕

Physical   Config   Desktop   Programming   Attributes

Configure Mail   X

User Information

Your Name: t2

Email Address   t2@school.com

Server Information

Incoming Mail Server   192.168.10.12

Outgoing Mail Server   192.168.10.12

Logon Information

User Name: t2

Password: ••

[Save]   [Clear]   [Reset]

☐ Top

Reply email

PC5 — □ ✕

Physical   Config   Desktop   Programming   Attributes

Reply Mail   X

[Send]   To: t2@school.com
            Subject: RE: test

Thank You.

Subject : test
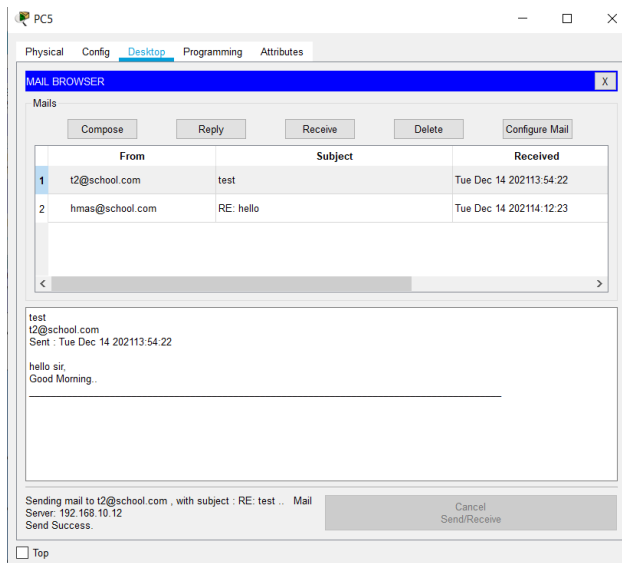From : t2@school.com
Sent : Tue Dec 14 202113:54:22

hello sir,
Good Morning

☐ Top

Send Successfully

Email Received