



Daffodil
International
University

School Network System Project Report

Course Code : CSE314 (Fall-21)

Course Title : Computer Networks Lab

under the guidance of

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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?

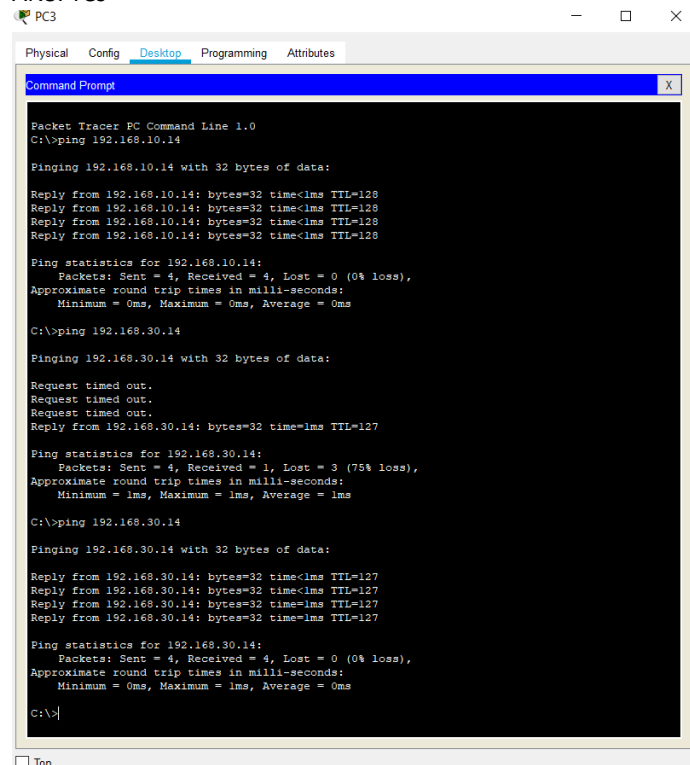
ANS: NO.

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



The screenshot shows a Packet Tracer PC Command Line window for PC3. The window has tabs for Physical, Config, Desktop, Programming, and Attributes. The Desktop tab is active, showing a Command Prompt window. The Command Prompt displays the following text:

```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.10.14

Pinging 192.168.10.14 with 32 bytes of data:

Reply from 192.168.10.14: bytes=32 time<1ms TTL=128
Reply from 192.168.10.14: bytes=32 time<1ms TTL=128
Reply from 192.168.10.14: bytes=32 time<1ms TTL=128
Reply from 192.168.10.14: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.10.14:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.30.14

Pinging 192.168.30.14 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Reply from 192.168.30.14: bytes=32 time=1ms TTL=127

Ping statistics for 192.168.30.14:
    Packets: Sent = 4, Received = 1, Lost = 3 (75% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 1ms, Average = 1ms

C:\>ping 192.168.30.14

Pinging 192.168.30.14 with 32 bytes of data:

Reply from 192.168.30.14: bytes=32 time<1ms TTL=127
Reply from 192.168.30.14: bytes=32 time<1ms TTL=127
Reply from 192.168.30.14: bytes=32 time<1ms TTL=127
Reply from 192.168.30.14: bytes=32 time<1ms TTL=127

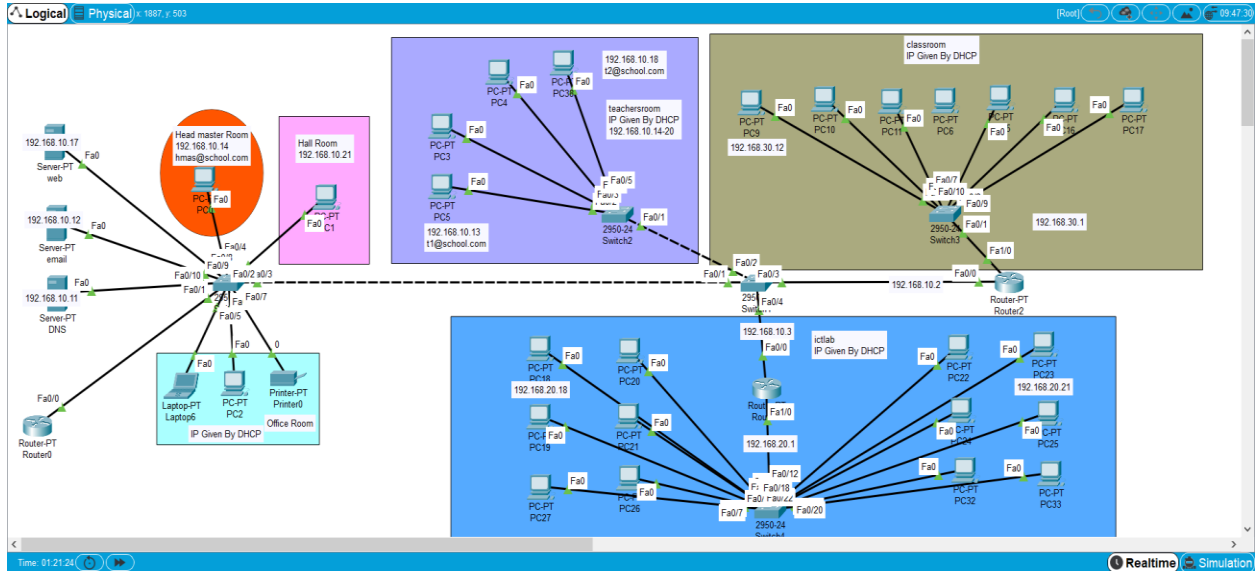
Ping statistics for 192.168.30.14:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

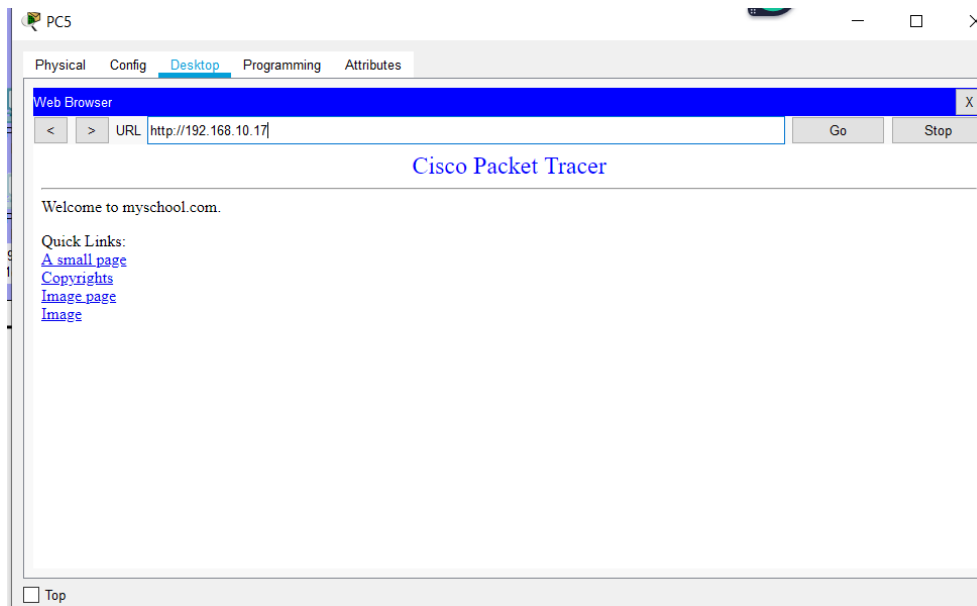
8. If there is any VLAN then send data from one VLAN to another VLAN

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

TOPOLOGY



WEB BROWSING



CLI Commands

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 summary

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 summary
exit
```

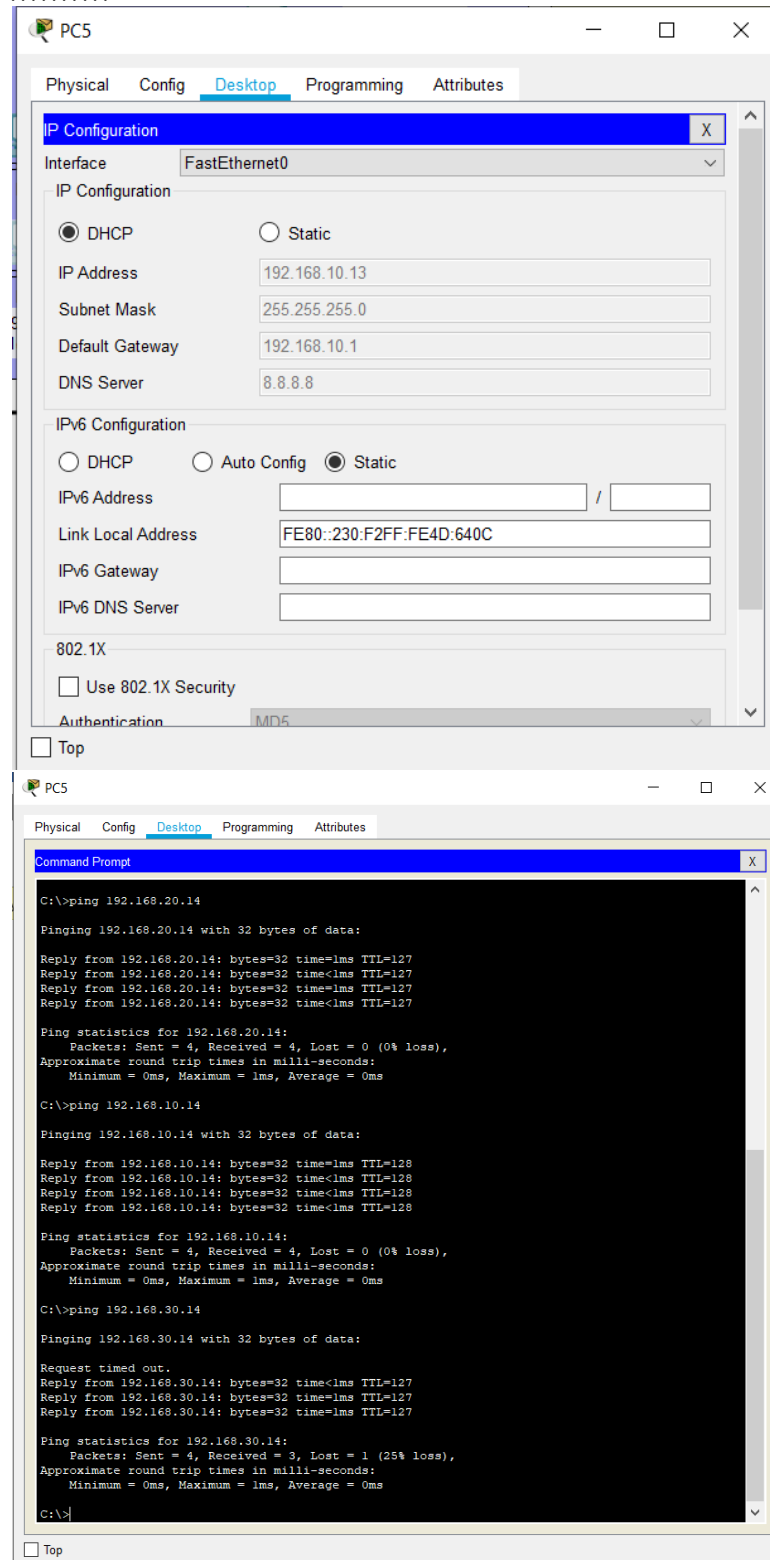
```
Router 2
////////
Enable
Config terminal
Int fa0/0
Ip add 192.168.10.2 255.255.255.0
No shutdown
Exit
Int fa1/0
Ip add 192.168.30.1 255.255.255.0
No shutdown
Exit
```

```
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 summary
exit
```

PING TEST

////////



EMAIL

/////

Server

email

Physical Config **Services** Desktop Programming Attributes

SERVICES

- HTTP
- DHCP
- DHCPv6
- TFTP
- DNS
- SYSLOG
- AAA
- NTP
- EMAIL**
- FTP
- IoT
- VM Management
- Radius EAP

EMAIL

SMTP Service ☒ ON ☐ OFF

POP3 Service ☒ ON ☐ OFF

Domain Name:

User Setup

User Password

t1
t2
hmas

☐ Top

Config for teachers 1 & 2

PC5

Physical Config **Desktop** Programming Attributes

Configure Mail

User Information

Your Name:

Email Address:

Server Information

Incoming Mail Server:

Outgoing Mail Server:

Logon Information

User Name:

Password:

☐ Top

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Physical Config **Desktop** Programming Attributes

Configure Mail X

User Information

Your Name:

Email Address:

Server Information

Incoming Mail Server:

Outgoing Mail Server:

Logon Information

User Name:

Password:

☐ Top

Reply email

PC5

Physical Config **Desktop** Programming Attributes

Reply Mail X

To:

Subject:

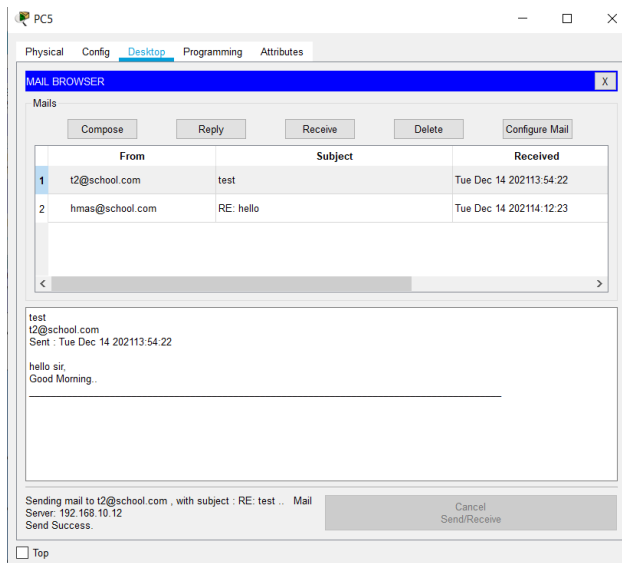
Thank You!

Subject: test
From: t2@school.com
Sent: Tue Dec 14 2021 13:54:22

hello sir,
Good Morning.

☐ Top

Send Successfully



Email Received

