

UNIVERSITY OF ASIA PACIFIC

Department of Computer Science & Engineering

HTTP,FTP,EMAIL Server

Course Code : CSE 320

Course Title : Computer Networks Lab

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How to implement **HTTP Server**:

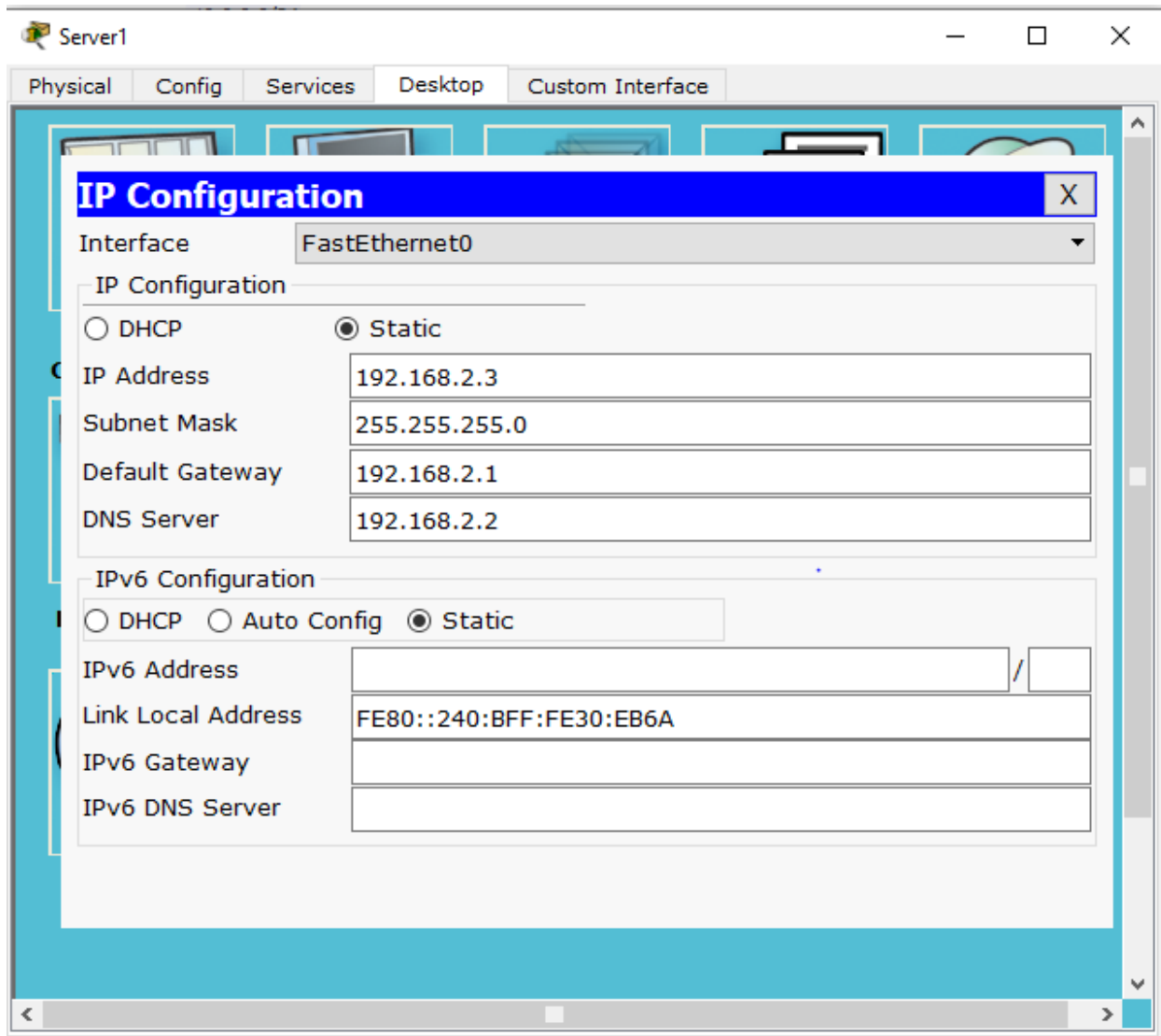
At first implement rip2, necessary codes:

```
router0:  
route rip  
version 2  
network 192.168.1.0  
network 10.0.0.0  
ex  
do show ip route
```

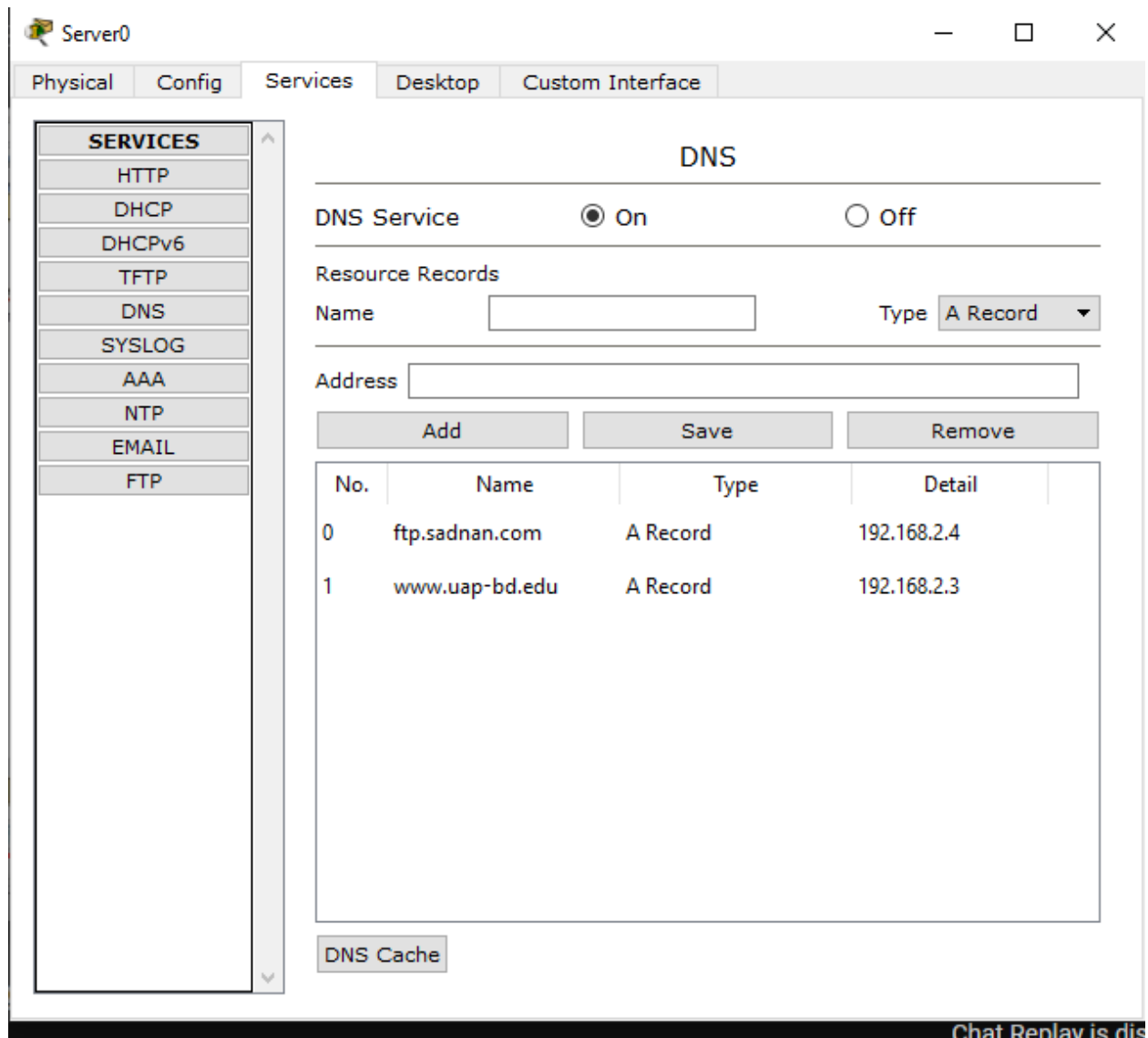
Then,

```
router1:  
route rip  
version 2  
network 10.0.0.0  
network 192.168.2.0  
do show ip route
```

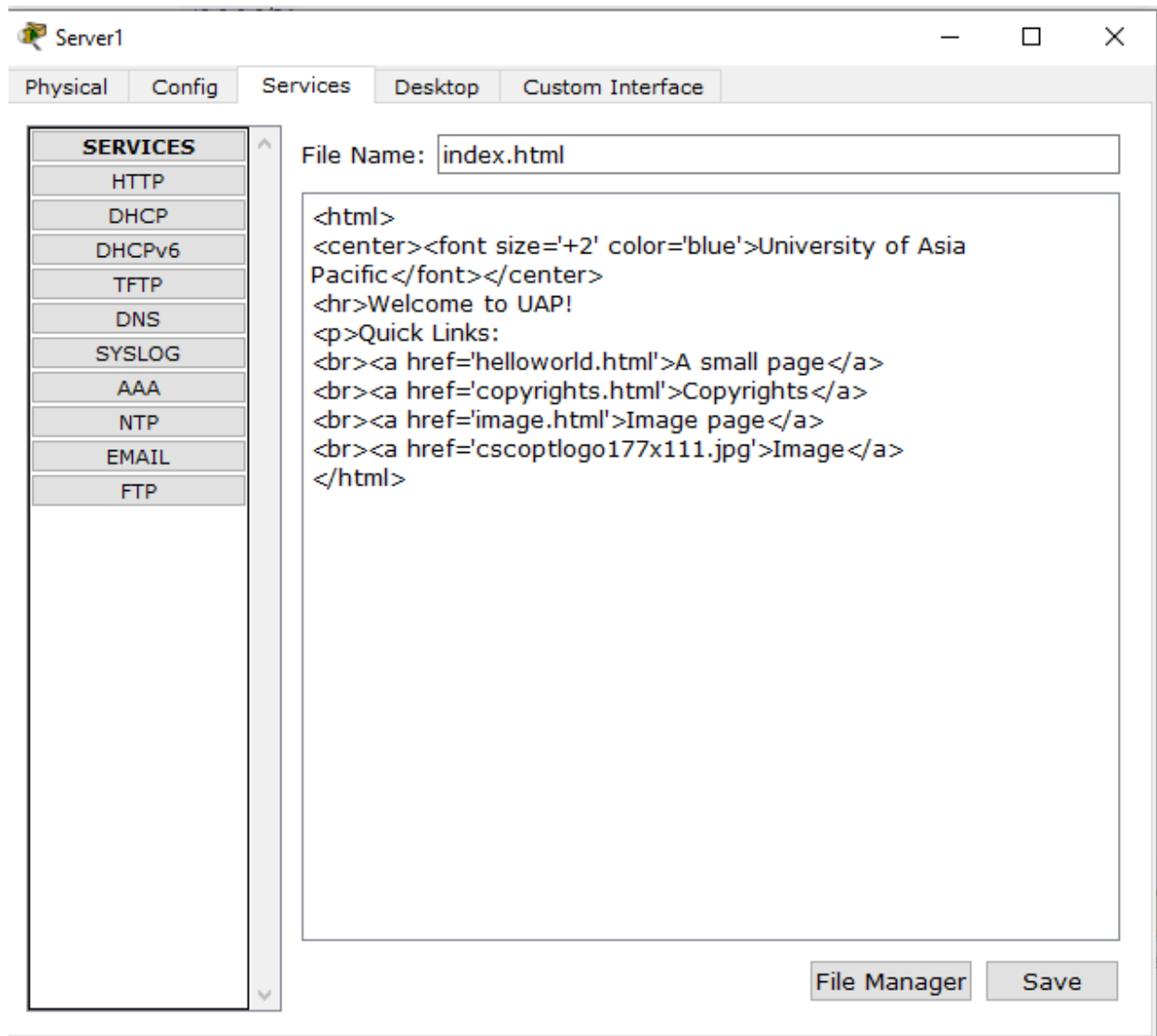
Step-1: After configuring the rip2, give ip configuration on http server (server 1).



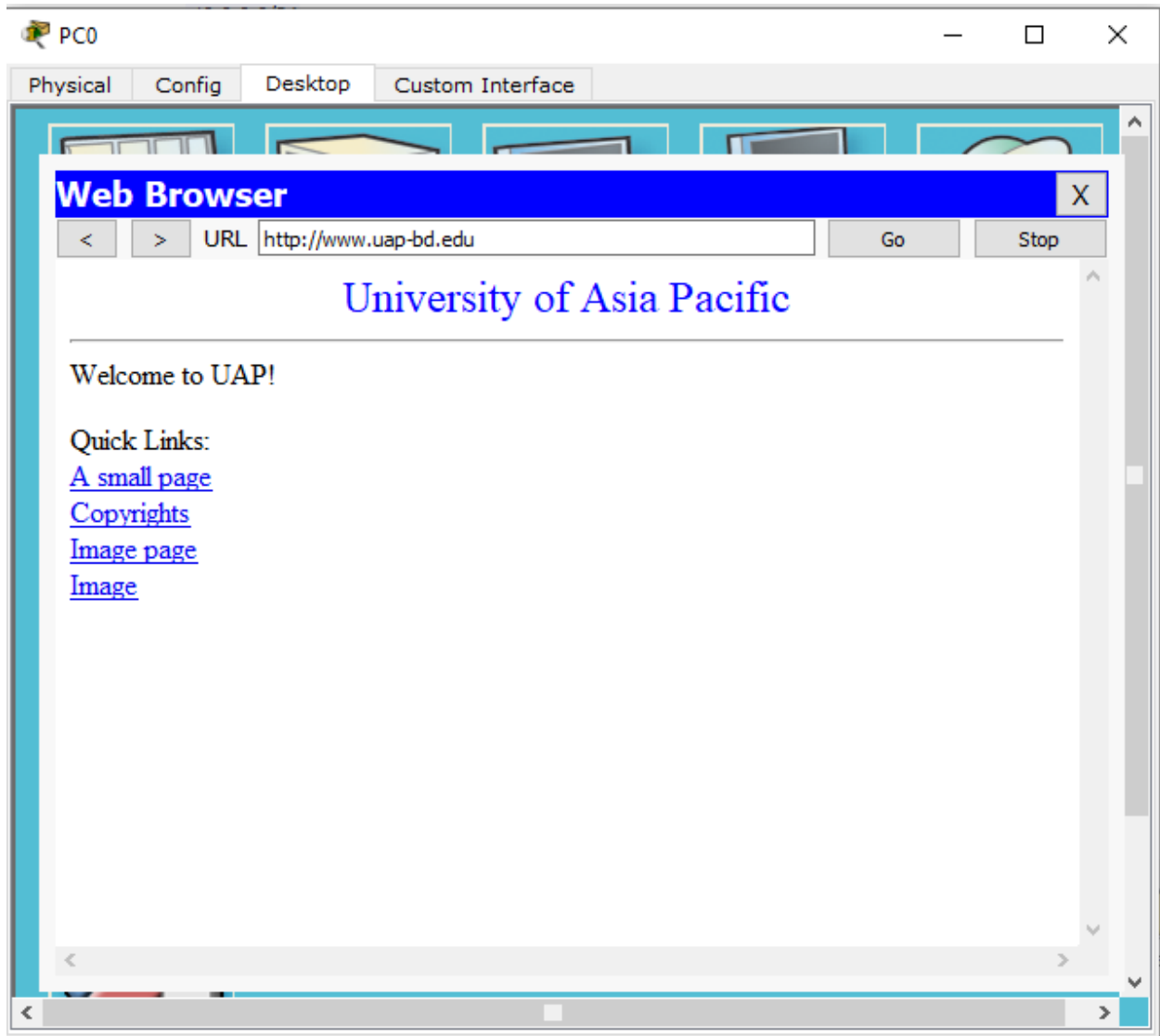
Step-2: Go to DNS server on Server 0, give a website name and ip address. Im using www.uap-bd.edu and 192.168.2.3

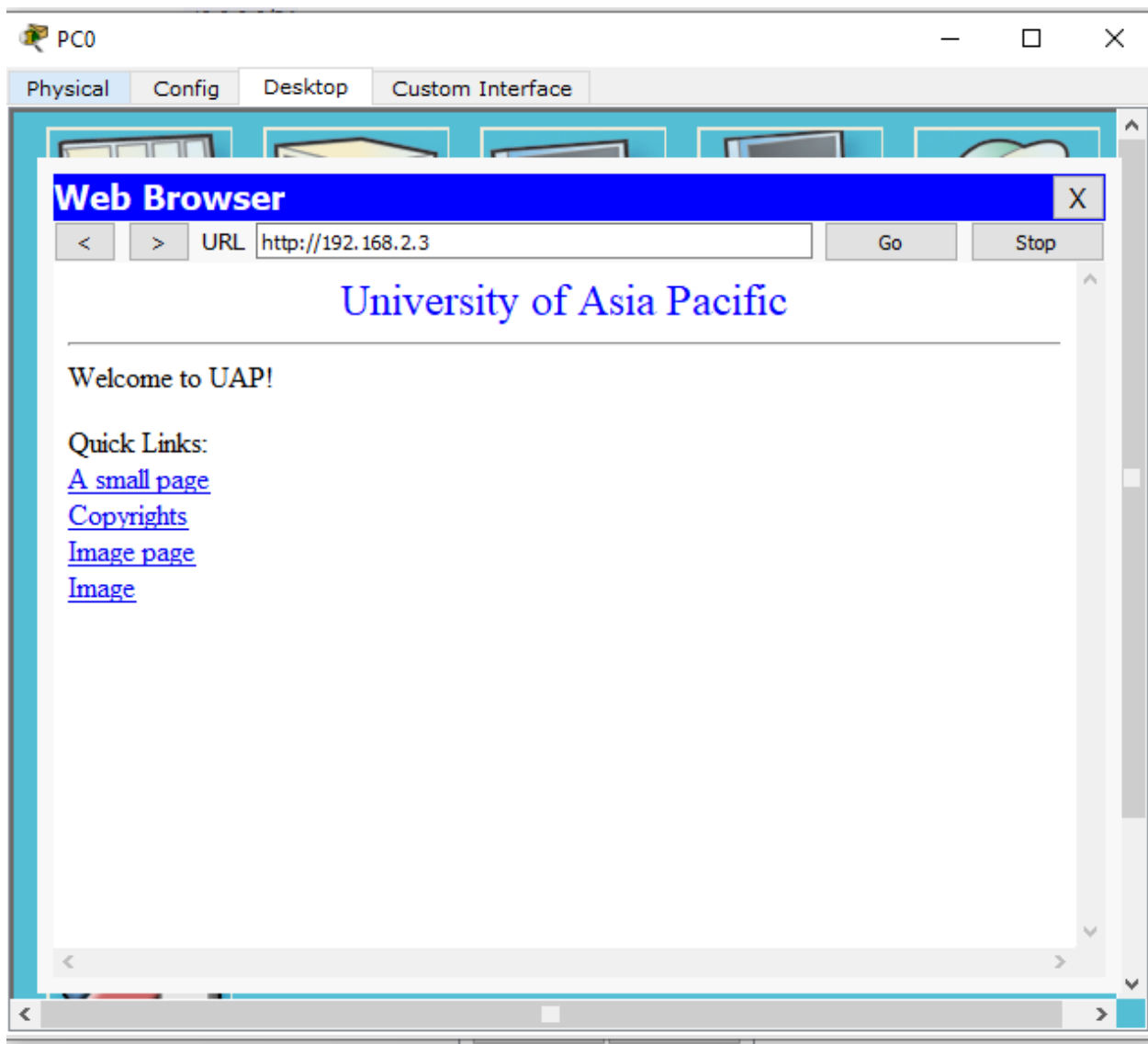


Step-3: Edit the index file as per your wish.



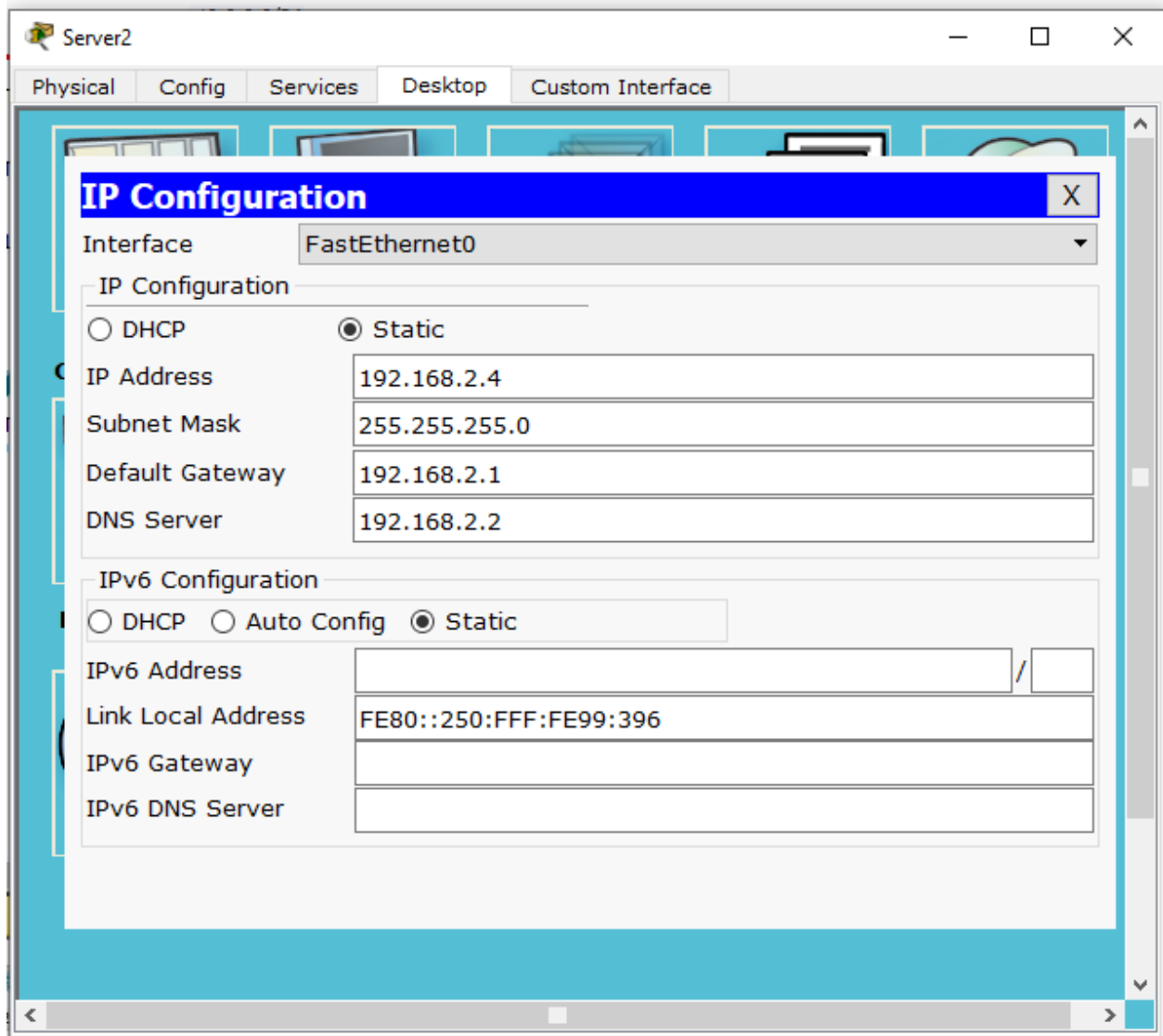
Step-4: Go to PC0, desktop and web browser then type the web address, it should be displayed. Also it can be accessed by the ip address.





How to implement **FTP Server**:

Step-1: Give ip configuration on ftp server (server 2).



Step-2: Go to FTP server, choose FTP, add username, password with permissions.

The screenshot shows the 'Server2' configuration window with the 'Services' tab selected. The 'FTP' service is configured as 'On'. The 'User Setup' section contains a table with three users: 'cisco', 'nafez', and 'sadhanan'. The 'cisco' user has 'RWDNL' permissions, 'nafez' has 'RWDNL', and 'sadhanan' has 'R'. The 'File' section shows a list of files: 'asa842-k8.bin', 'c1841-advipservicesk9-mz.124-15.T1.bin', 'c1841-ipbase-mz.123-14.T7.bin', and 'c1841-ipbasek9-mz.124-12.bin'. The 'Remove' button is visible at the bottom right of the file list.

Server2

Physical Config **Services** Desktop Custom Interface

SERVICES

- HTTP
- DHCP
- DHCPv6
- TFTP
- DNS
- SYSLOG
- AAA
- NTP
- EMAIL
- FTP

FTP

Service ☒ On ☐ Off

User Setup

Username Password

☐ Write ☐ Read ☐ Delete ☐ Rename ☐ List

	Username	Password	Permission
1	cisco	cisco	RWDNL
2	nafez	20101106	RWDNL
3	sadhanan	20101106	R

Add Save Remove

File

1	asa842-k8.bin
2	c1841-advipservicesk9-mz.124-15.T1.bin
3	c1841-ipbase-mz.123-14.T7.bin
4	c1841-ipbasek9-mz.124-12.bin

Remove

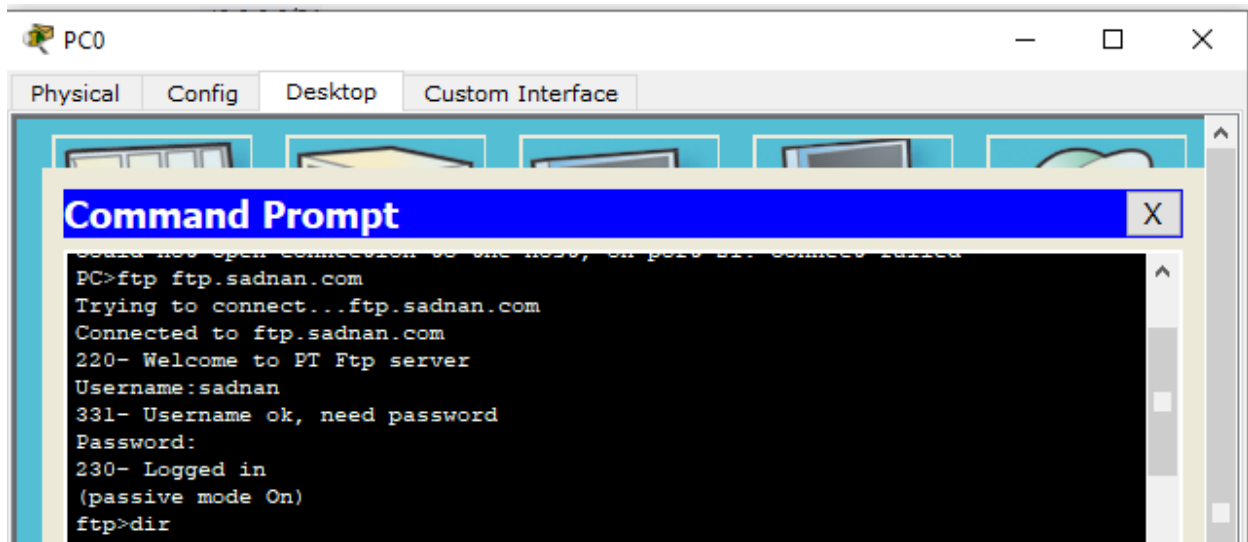
Step-3: Go to DNS server, then add FTP website.

The screenshot shows the 'Server0' configuration window with the 'Services' tab selected. On the left, a list of services includes HTTP, DHCP, DHCPv6, TFTP, DNS, SYSLOG, AAA, NTP, EMAIL, and FTP. The 'DNS' service is highlighted. The main area is titled 'DNS' and shows the 'DNS Service' is turned 'On'. Below this, there is a 'Resource Records' section with a 'Name' field, a 'Type' dropdown set to 'A Record', and an 'Address' field. At the bottom of this section are 'Add', 'Save', and 'Remove' buttons. A table lists existing records:

No.	Name	Type	Detail
0	ftp.sadnan.com	A Record	192.168.2.4
1	www.uap-bd.edu	A Record	192.168.2.3

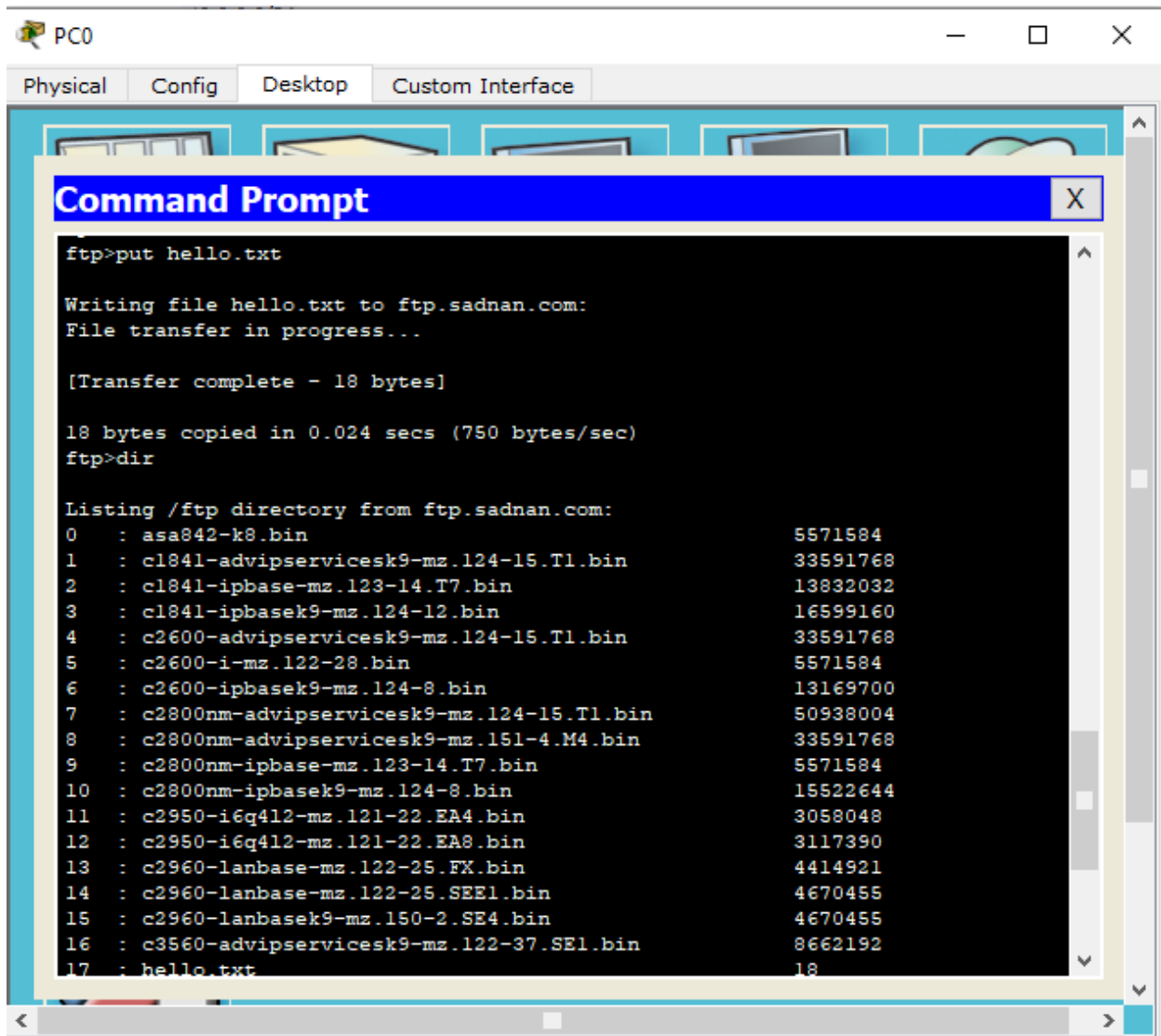
Below the table is a 'DNS Cache' button.

Step-4: Go to PC0, command prompt and log in.

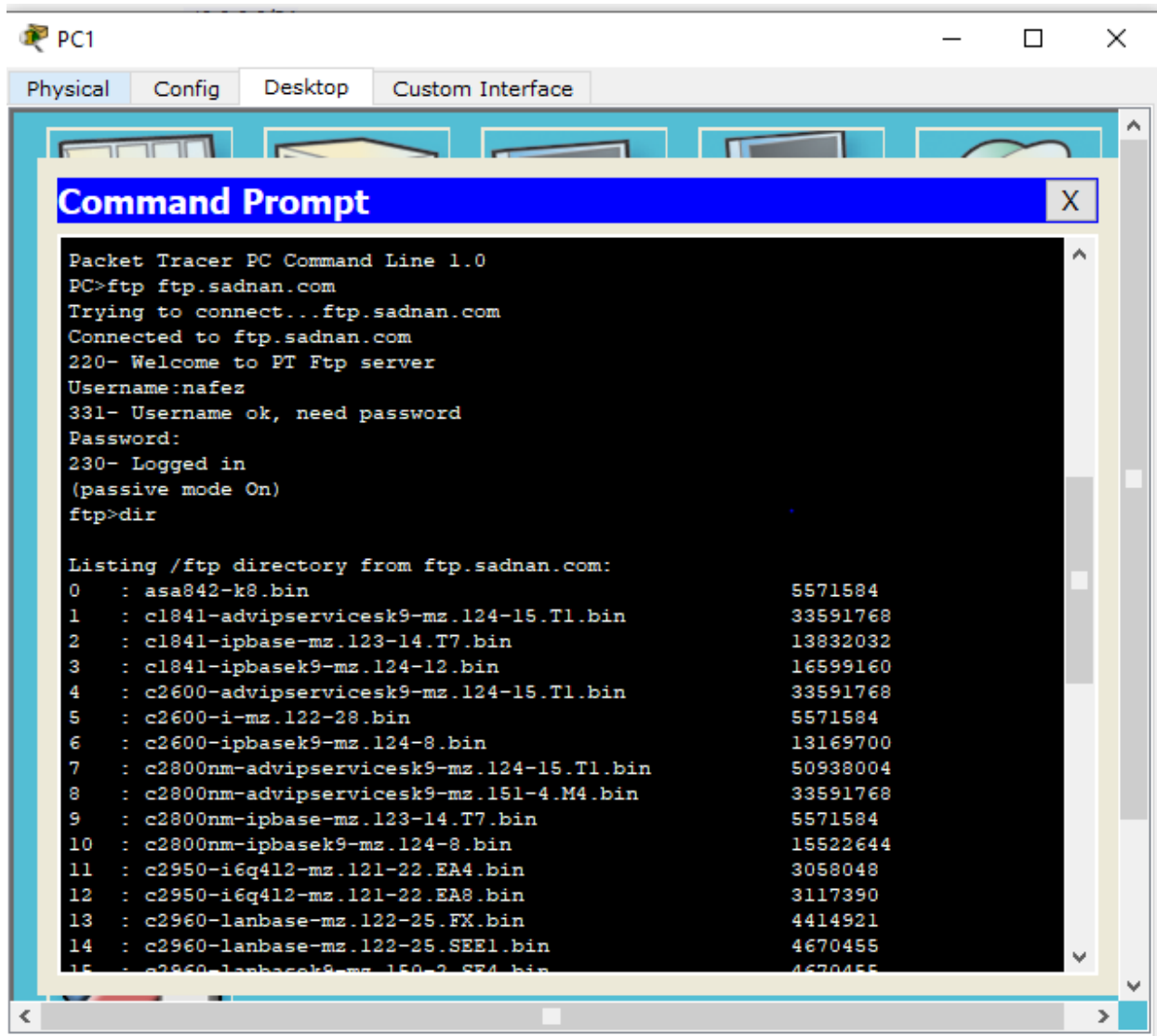


Step-5: Go to text editor of PC0 and make a text file.

Step-6: Put the hello.txt file and saw all files by dir command.

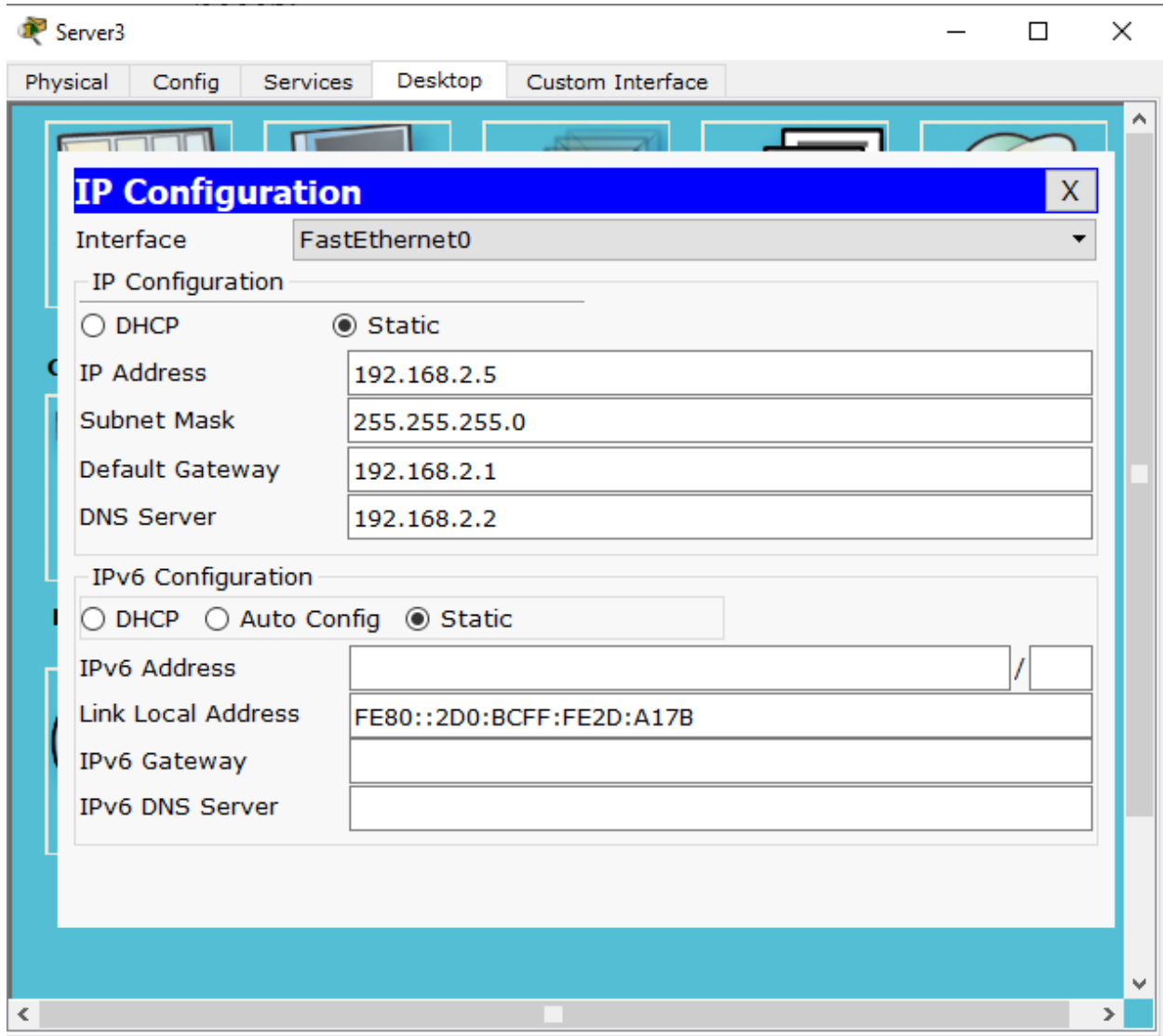


Step-7: Go to a viewer PC (PC1), then command prompt and download the hello.txt file from the FTP server by using get hello.txt.



How to implement **EMAIL Server**:

Step-1: Give ip configuration on email server (server 3).



Step-2: Go to email on server 3, add domain name and admin-viewer with password. I'm using sadnan.com as domain name.

The screenshot shows the 'Server3' configuration window with the 'Services' tab selected. On the left, a 'SERVICES' list includes HTTP, DHCP, DHCPv6, TFTP, DNS, SYSLOG, AAA, NTP, EMAIL, and FTP. The 'EMAIL' service is highlighted. The main area is titled 'EMAIL' and contains the following fields and controls:

- SMTP Service:** Radio buttons for 'ON' (selected) and 'OFF'.
- POP3 Service:** Radio buttons for 'ON' (selected) and 'OFF'.
- Domain Name:** A text field containing 'sadnan.com' and a 'Set' button.
- User Setup:** A section with a 'User' field, a 'Password' field, and a list of users: 'admin' and 'viewer'. To the right of the list are three buttons: '+', '-', and 'Change Password'.

Step-3: Go to admin PC0 and configure the mail.

The screenshot shows a web-based configuration interface for a PC0. The window has a title bar with 'PC0' and standard minimize, maximize, and close buttons. Below the title bar are four tabs: 'Physical', 'Config', 'Desktop', and 'Custom Interface'. The 'Config' tab is active, displaying a 'Configure Mail' dialog box. The dialog box has a blue header with the title 'Configure Mail' and a close button (X). It is divided into three sections: 'User Information', 'Server Information', and 'Logon Information'. The 'User Information' section contains fields for 'Your Name' (filled with 'admin') and 'Email Address' (filled with 'admin@sadhan.com'). The 'Server Information' section contains fields for 'Incoming Mail Server' and 'Outgoing Mail Server', both filled with '192.168.2.5'. The 'Logon Information' section contains fields for 'User Name' (filled with 'admin') and 'Password' (filled with five dots). At the bottom of the dialog box are three buttons: 'Save', 'Clear', and 'Reset'. The background of the PC0 interface shows a desktop with several icons.

PC0

Physical Config Desktop Custom Interface

Configure Mail

User Information

Your Name: admin

Email Address: admin@sadhan.com

Server Information

Incoming Mail Server: 192.168.2.5

Outgoing Mail Server: 192.168.2.5

Logon Information

User Name: admin

Password: ●●●●●

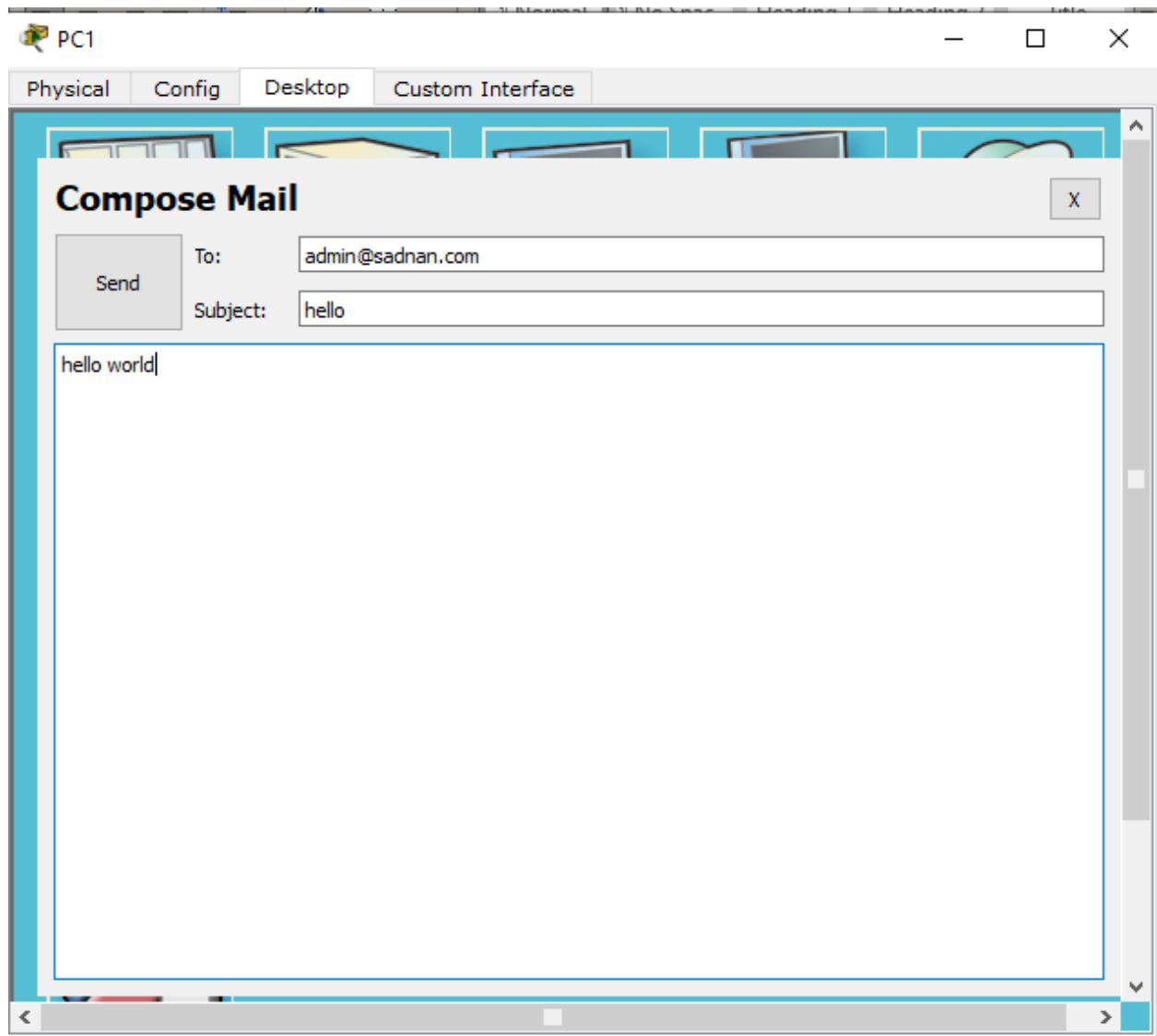
Save Clear Reset

Step-4: Go to viewer PC1 and configure the mail.

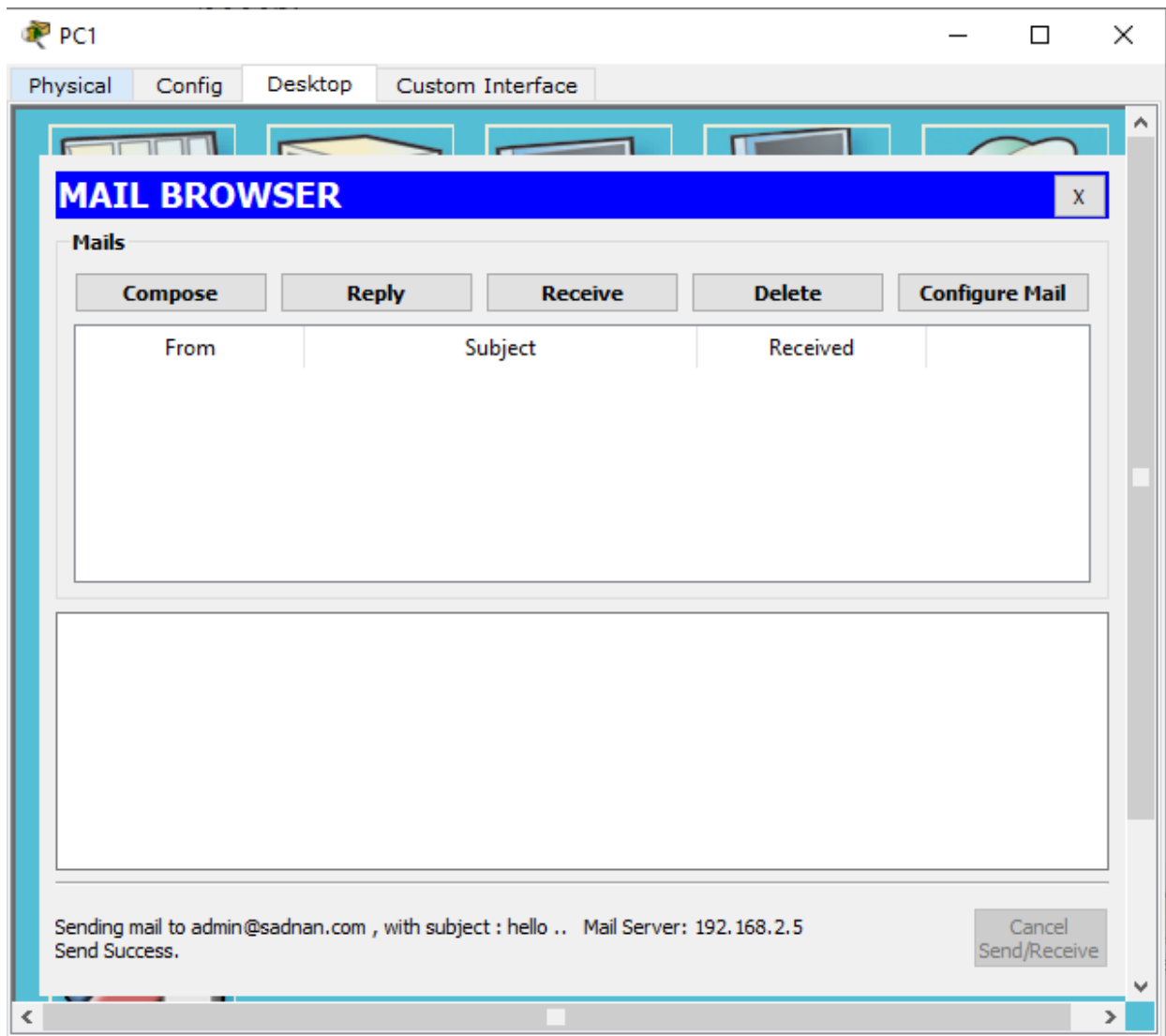
The screenshot shows a configuration window for 'PC1' with tabs for 'Physical', 'Config', 'Desktop', and 'Custom Interface'. The 'Config' tab is active, displaying a 'Configure Mail' dialog box. The dialog box has a blue title bar with a close button (X). It is divided into three sections: 'User Information', 'Server Information', and 'Logon Information'. In the 'User Information' section, 'Your Name' is 'viewer' and 'Email Address' is 'viewer@sadnan.com'. In the 'Server Information' section, both 'Incoming Mail Server' and 'Outgoing Mail Server' are '192.168.2.5'. In the 'Logon Information' section, 'User Name' is 'viewer' and 'Password' is masked with dots. At the bottom are 'Save', 'Clear', and 'Reset' buttons.

Section	Field	Value
User Information	Your Name	viewer
	Email Address	viewer@sadnan.com
Server Information	Incoming Mail Server	192.168.2.5
	Outgoing Mail Server	192.168.2.5
Logon Information	User Name	viewer
	Password	••••••

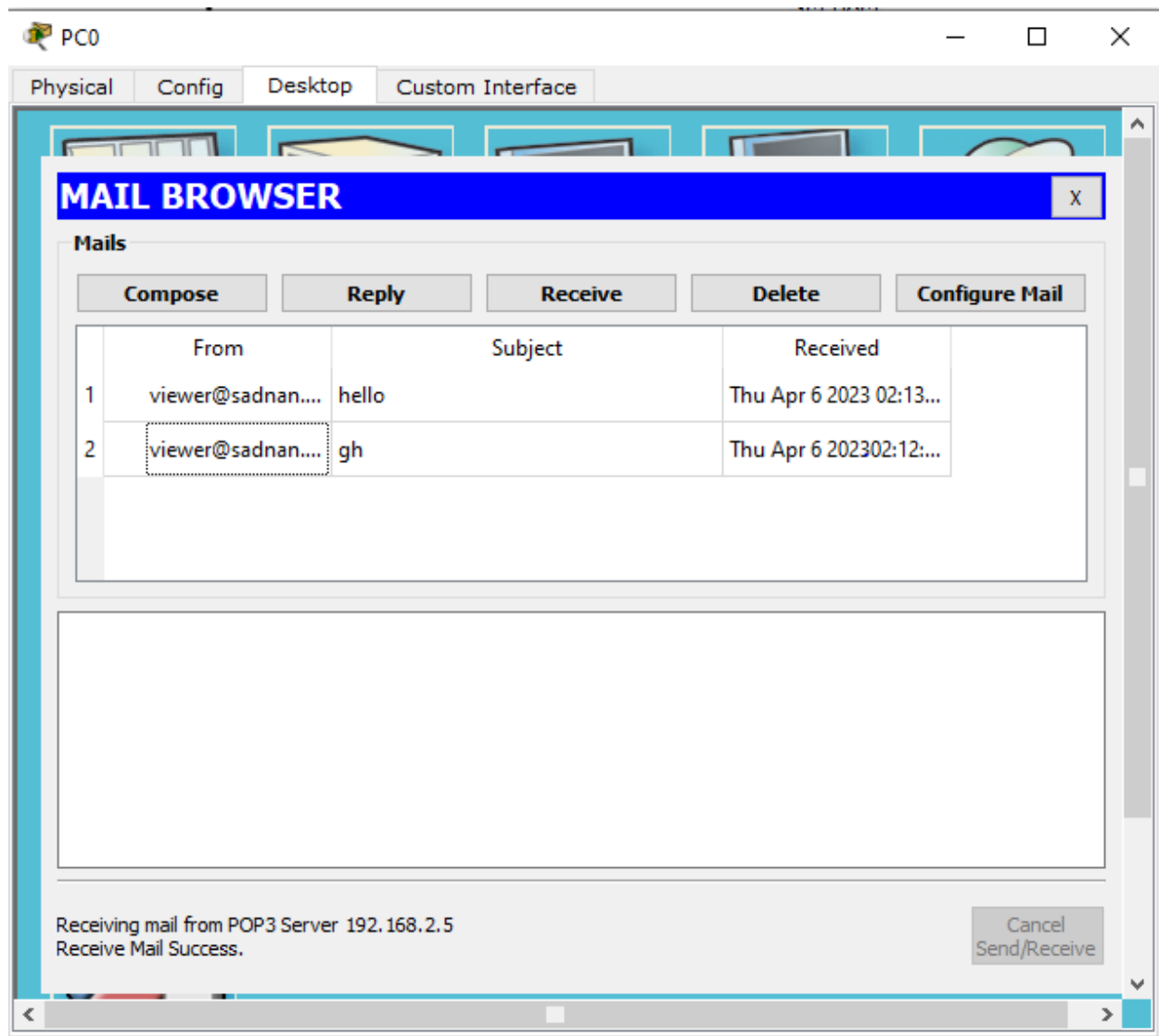
Step-5: Compose a mail.









Step-6: Send the mail. It should succeed.



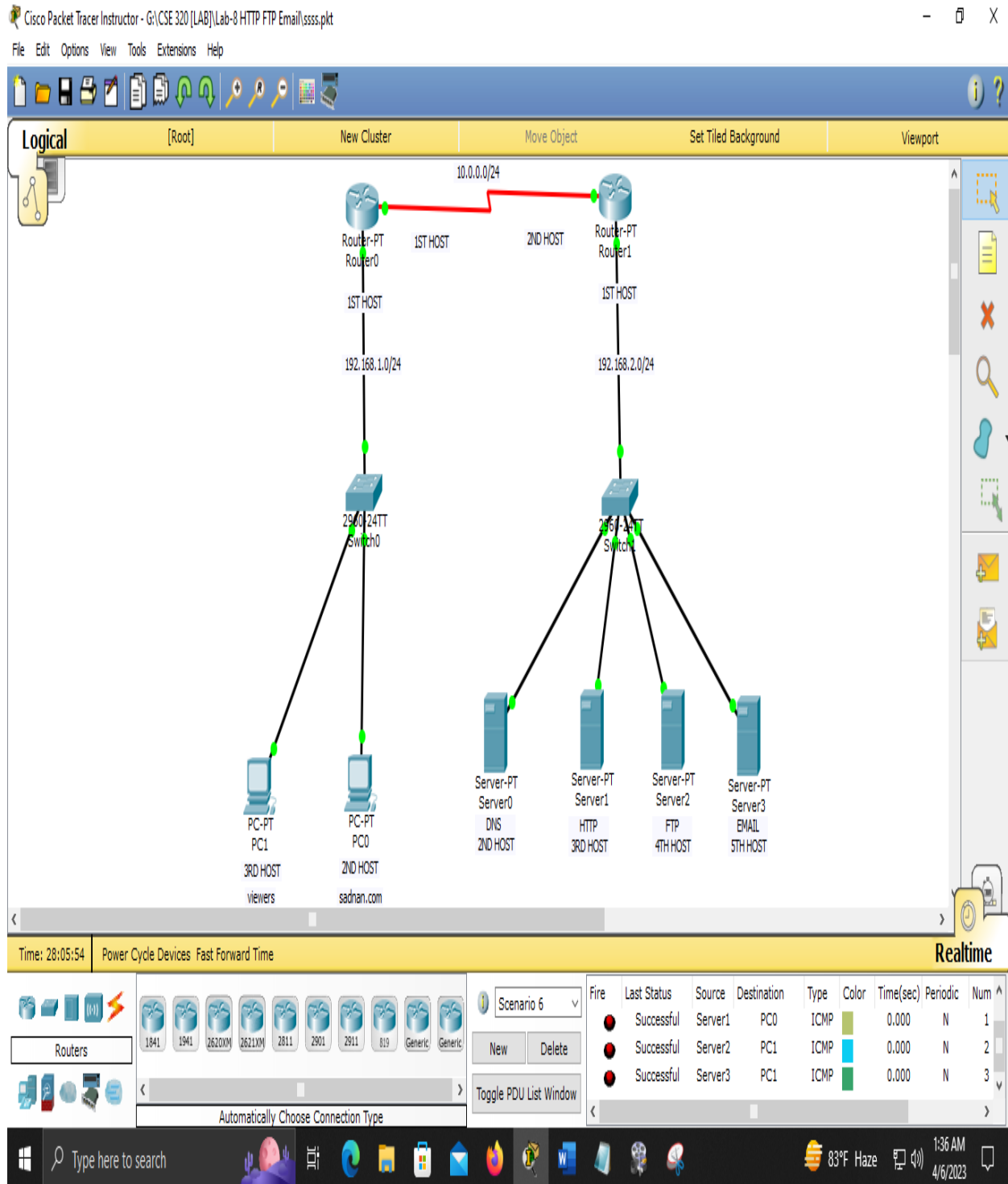
Step-7: Go to admin PC0 and receive the mail.



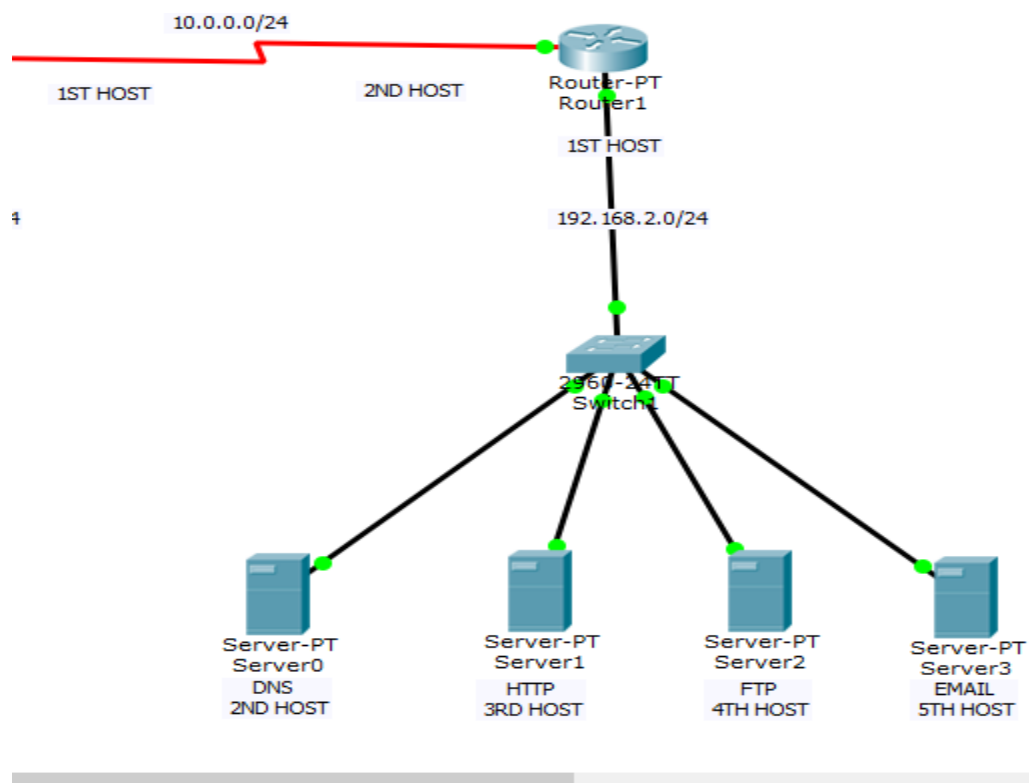
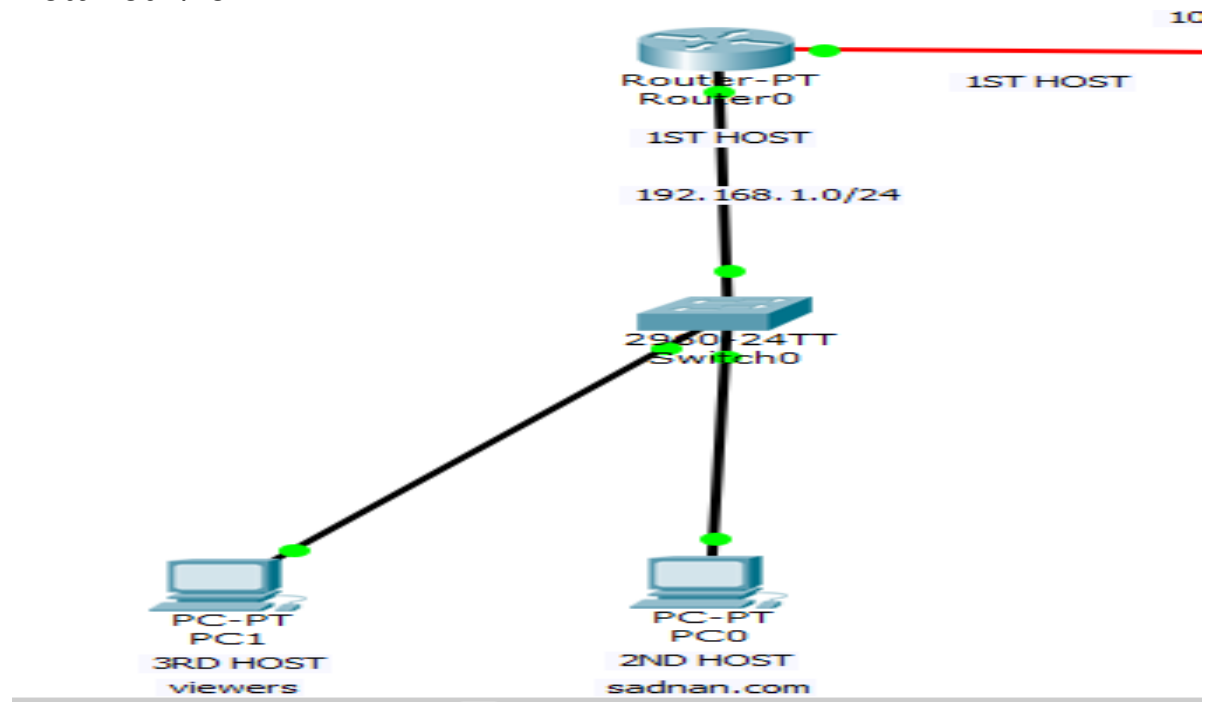
Check if all the servers (DNS, HTTP, FTP, EMAIL) are working properly,

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num
	Successful	Server1	PC0	ICMP		0.000	N	1
	Successful	Server2	PC1	ICMP		0.000	N	2
	Successful	Server3	PC1	ICMP		0.000	N	3

Overall screenshot of the whole architecture-



Detailed view-



-----THANK YOU FOR READING-----