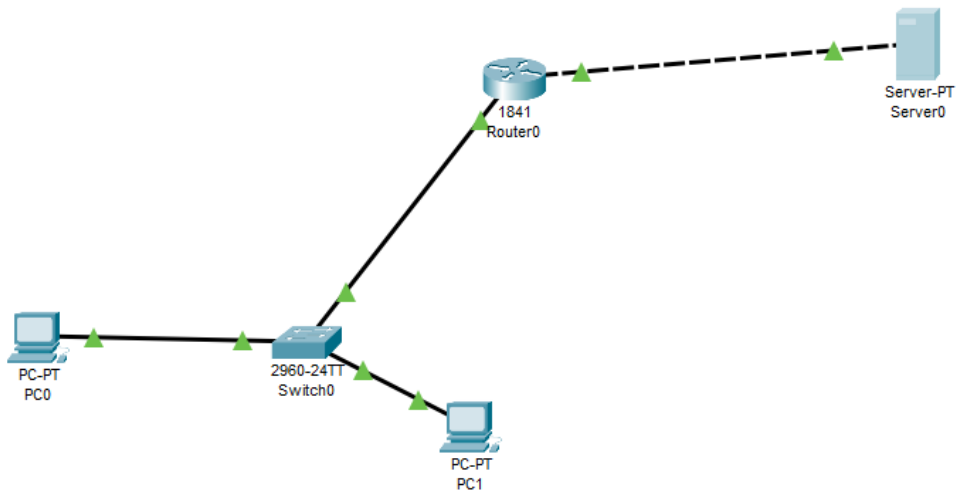# 5) LAB EXERCISE

Network Topology:

Router Exercise:

```
bilalahmed>en
bilalahmed#config t
Enter configuration commands, one per line.  End with CNTL/Z.
bilalahmed(config)#
bilalahmed(config)#hostname bilalahmed
bilalahmed(config)#interface f0/0
bilalahmed(config-if)#ip address 192.168.100.1 255.255.255.0
bilalahmed(config-if)#no shutdown
bilalahmed(config-if)#
```
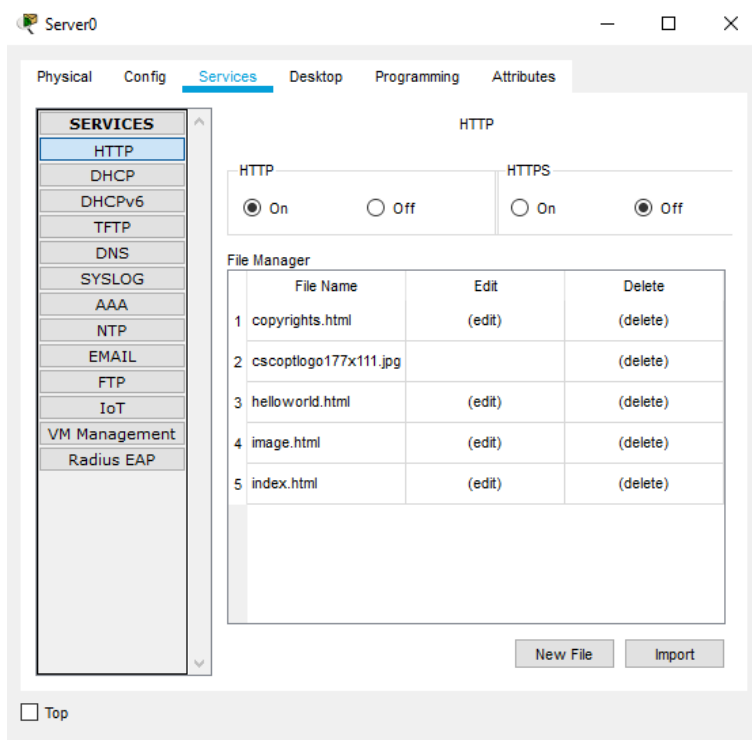
Ctrl+F6 to exit CLI focus   Copy

Running simulation screenshot:
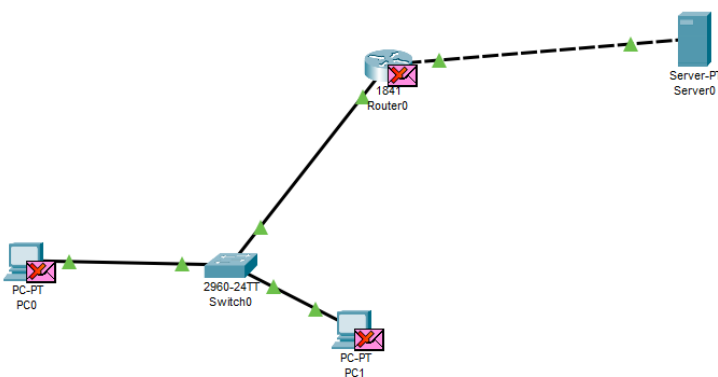
Importing HTTP file

Pinging server successfully

Web App working successfully

Running simulation successfully
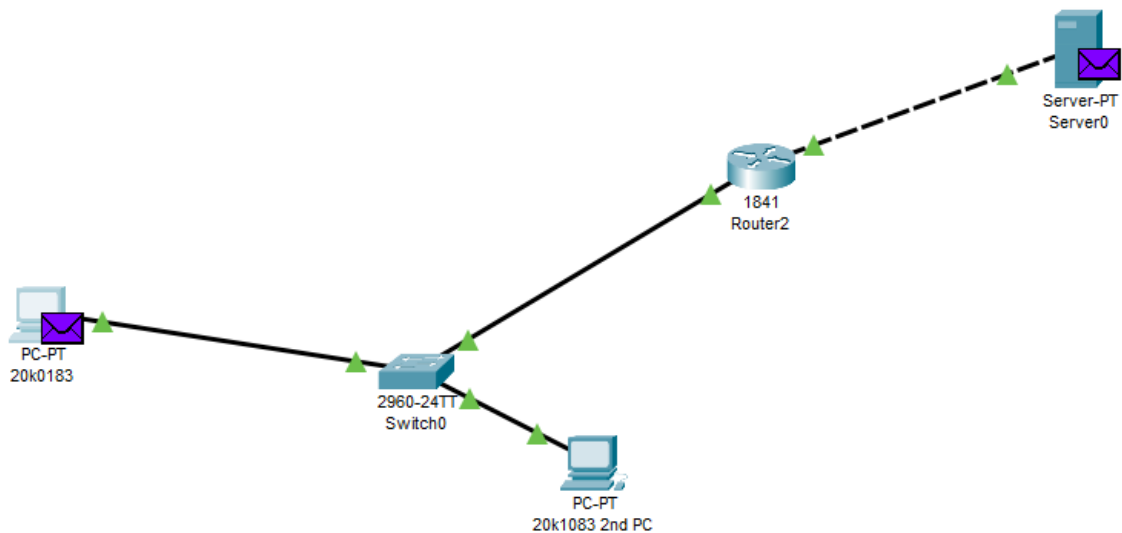
Event listener Response

PDU Information at Device: 20k0183   x

OSI Model   Inbound PDU Details   Outbound PDU Details

At Device: 20k0183
Source: 20k0183
Destination: 172.16.100.1

In Layers   **Out Layers**

Layer7		Layer7
Layer6		Layer6
Layer5		Layer5

In Layers	Out Layers
Layer 4: TCP Src Port: 80, Dst Port: 1065	Layer 4: TCP Src Port: 1065, Dst Port: 80
Layer 3: IP Header Src. IP: 172.16.100.1, Dest. IP: 192.168.100.1	Layer 3: IP Header Src. IP: 192.168.100.1, Dest. IP: 172.16.100.1
Layer 2: Ethernet II Header 000B.BE31.DA01 >> 00E0.F744.AC05	Layer 2: Ethernet II Header 00E0.F744.AC05 >> 000B.BE31.DA01
Layer 1: Port FastEthernet0	Layer 1: Port(s): FastEthernet0

1. FastEthernet0 receives the frame.

Challenge Me   << Previous Layer   Next Layer >>

Difference between http and https:

HTTPS is HTTP with encryption and verification. The only difference between the two protocols is that HTTPS uses TLS (SSL) to encrypt normal HTTP requests and responses, and to digitally sign those requests and responses

6) Wire Shark

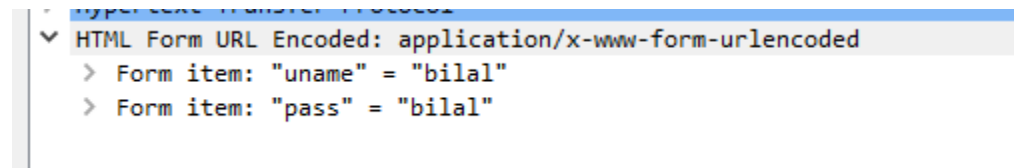If you are already registered please enter your login information below:

Username : bilal

Password : •••••

login

You can also signup here.

Filtering http request

No.	Time	Source	Destination	Protocol	Length	Info
47	4.838236	192.168.23.81	44.228.249.3	HTTP	708	POST /userinfo.php HTTP/1.1 (application/x-www-form-urlencoded)
49	5.243274	44.228.249.3	192.168.23.81	HTTP	330	HTTP/1.1 302 Found (text/html)
50	5.272746	192.168.23.81	44.228.249.3	HTTP	577	GET /login.php HTTP/1.1
53	5.650403	44.228.249.3	192.168.23.81	HTTP	1414	HTTP/1.1 200 OK (text/html)
318	40.202718	192.168.23.81	93.184.220.29	OCSP	480	Request
319	40.262750	93.184.220.29	192.168.23.81	OCSP	793	Response
400	43.346332	192.168.23.81	93.184.220.29	OCSP	480	Request
402	43.409280	93.184.220.29	192.168.23.81	OCSP	793	Response
638	55.283994	192.168.23.81	142.250.181.67	OCSP	482	Request
702	55.630006	142.250.181.67	192.168.23.81	OCSP	755	Response
41464	206.687637	192.168.23.81	104.106.110.102	HTTP	267	GET /en-US/livetile/preinstall?region=PK&appid=C98EA5B0842DBB9405BBF071E1DA76512D21FE36&FORM=Threshold HTTP/1.1
41494	206.848776	104.106.110.102	192.168.23.81	HTTP/X…	459	HTTP/1.1 200 OK

Username and password captured by POST method

Hypertext Transfer Protocol
HTML Form URL Encoded: application/x-www-form-urlencoded
  Form item: "uname" = "bilal"
  Form item: "pass" = "bilal"

https TLS encrypted data