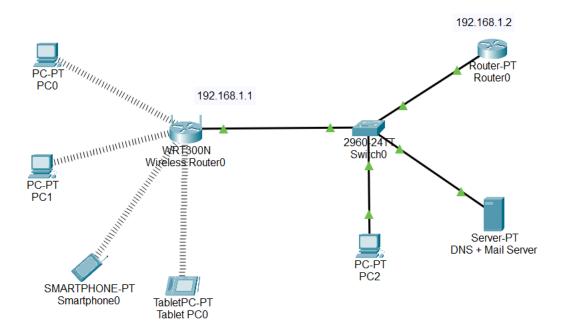
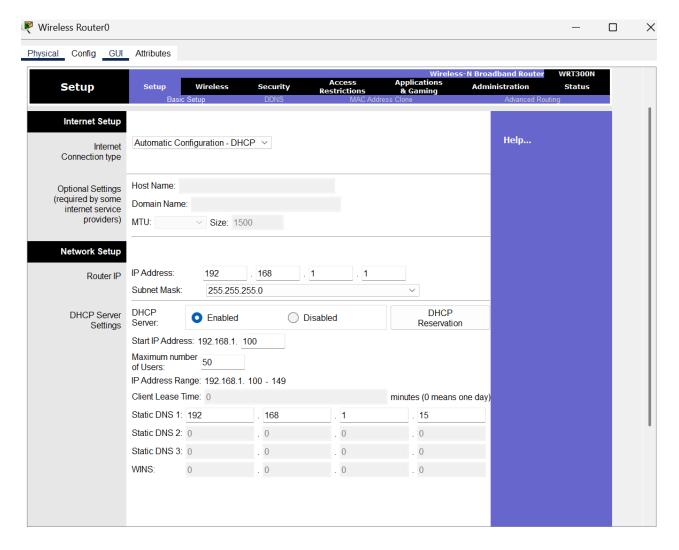
CN LAB 8

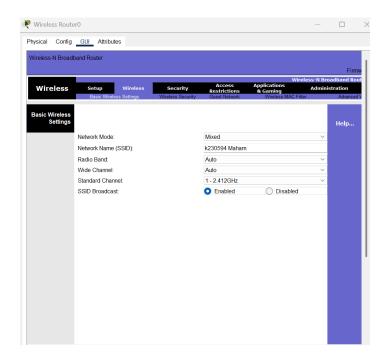
23K-0594

Task 1:

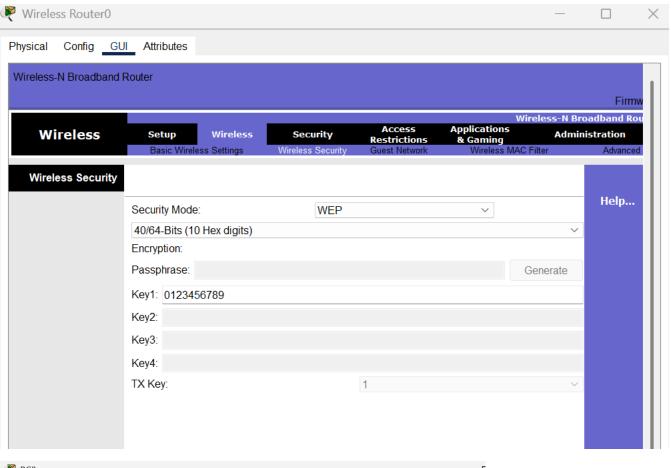




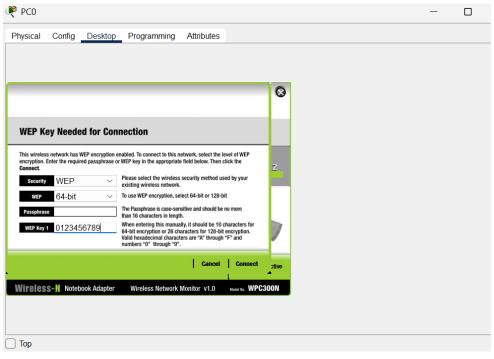
1. Changing the Network of Wireless Router to my StudentID+Name.



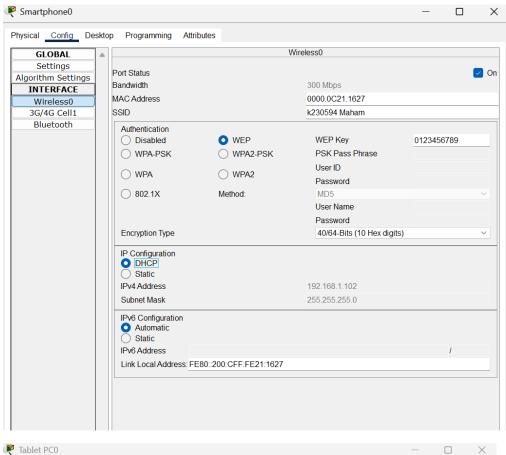
2. Set the key while connecting the wireless router with end devices.

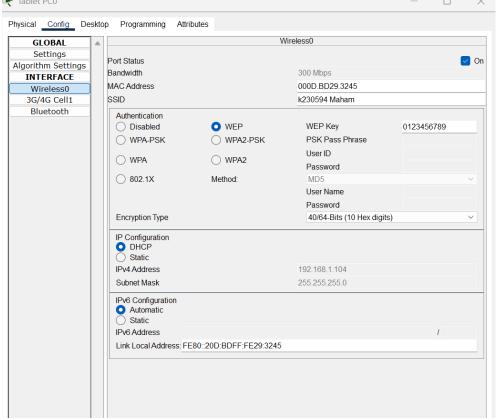


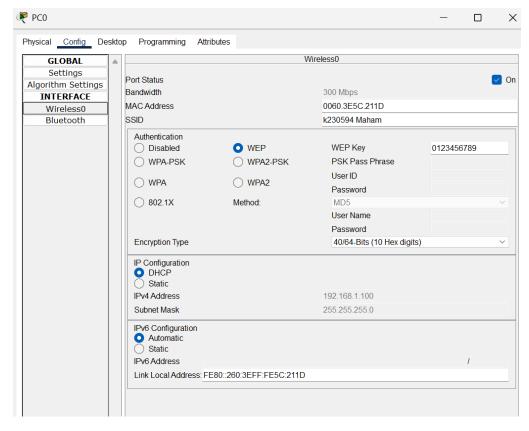






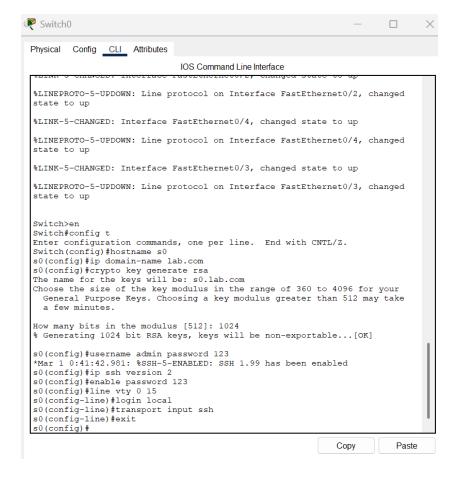




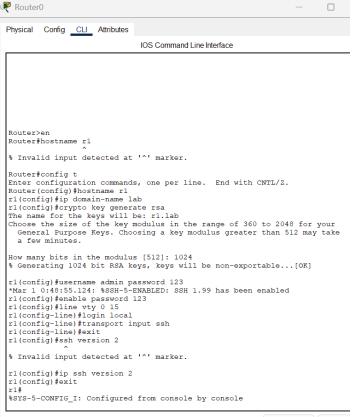


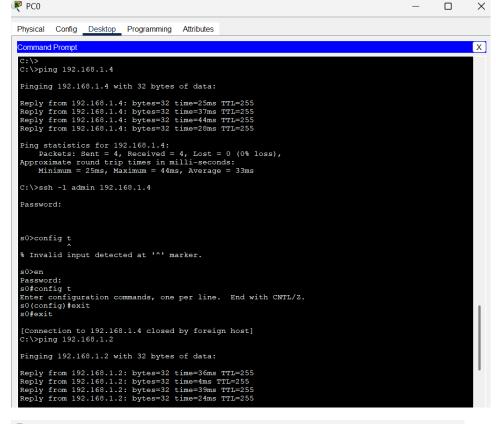
Similarly done for all other devices connected to wireless.

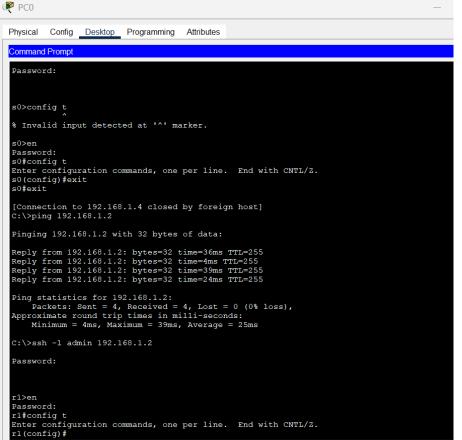
3. Perform secure communication on Switch0 and Router0 and check it through PC0.



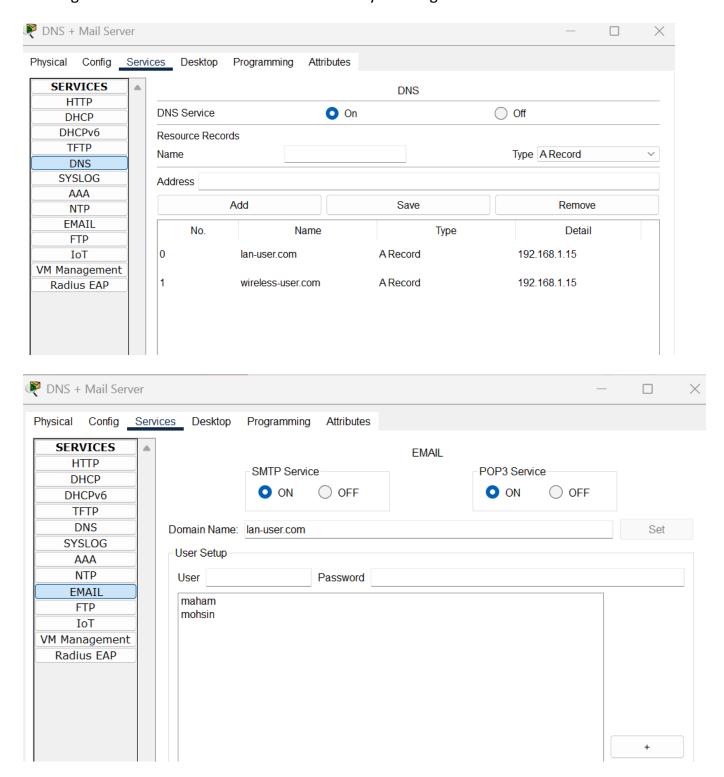


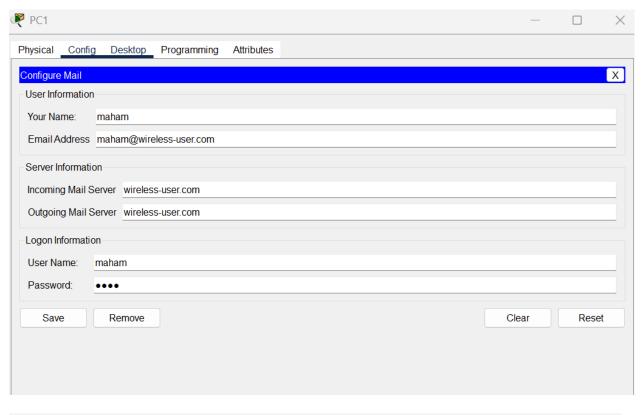


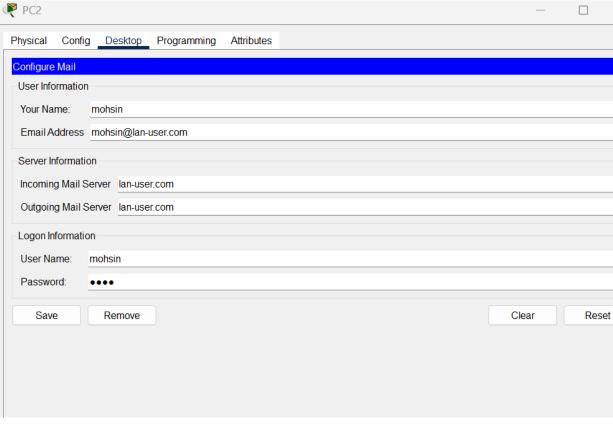


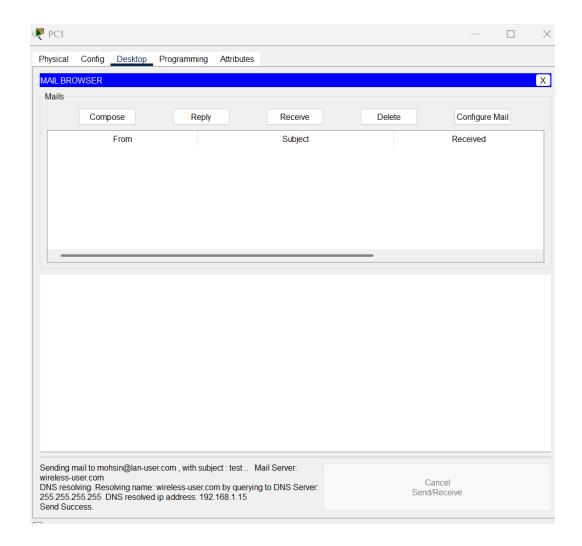


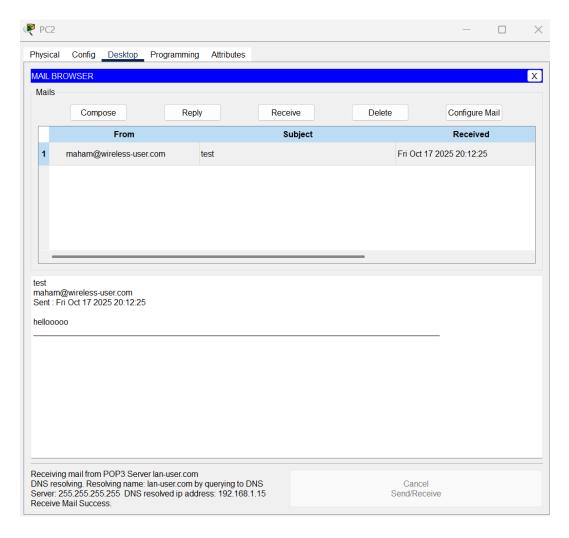
4. Sending mails from Wireless Users to Lan Users by creating different domains.



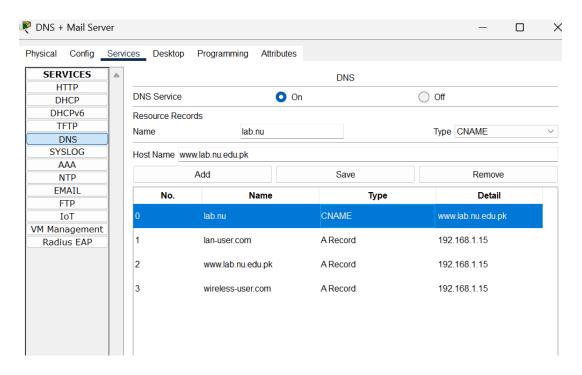


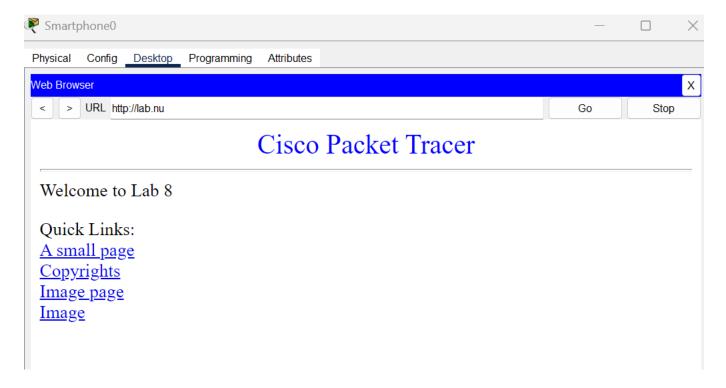




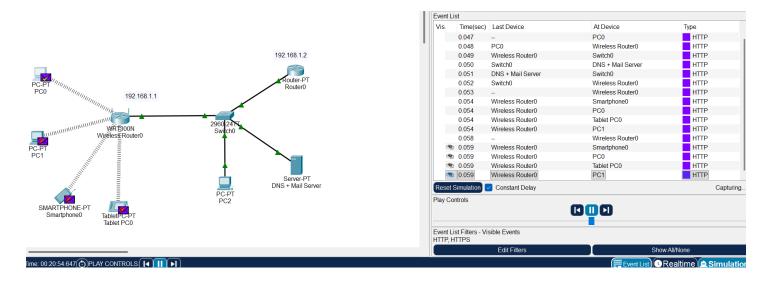


5. Hit the web browser using CNAME.





6. Showing HTTP and HTTPs packet movement by taking screenshots.



OSI Model Inbound PDU Details

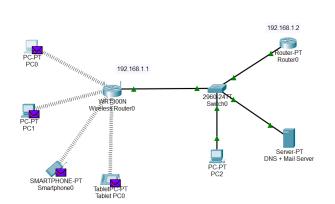
At Device: PC1 Source: PC1

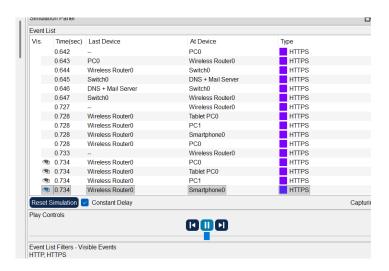
Destination: HTTP CLIENT

In Layers	Out Layers
Layer 7: HTTP	Layer7
Layer6	Layer6
Layer5	Layer5
Layer 4: TCP Src Port: 80, Dst Port: 1032	Layer4
Layer 3: IP Header Src. IP: 192.168.1.3, Dest. IP: 192.168.0.105	Layer3
Layer 2: Wireless	Layer2
Layer 1: Port Wireless0	Layer1

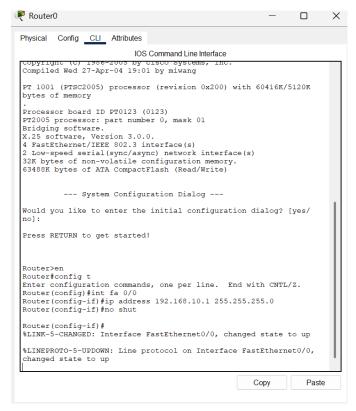
1. The HTTP client receives a HTTP reply from the server. It displays the page in the web browser.

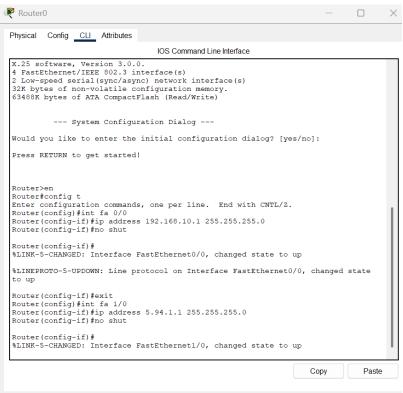
Challenge Me << Previous Layer >>

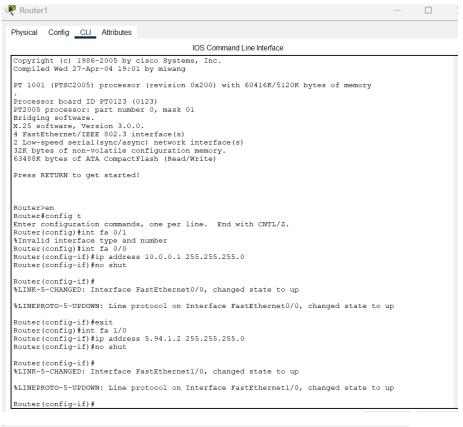


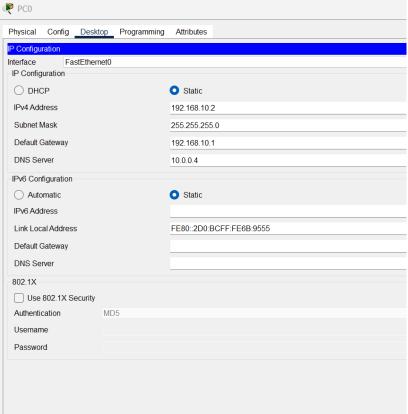


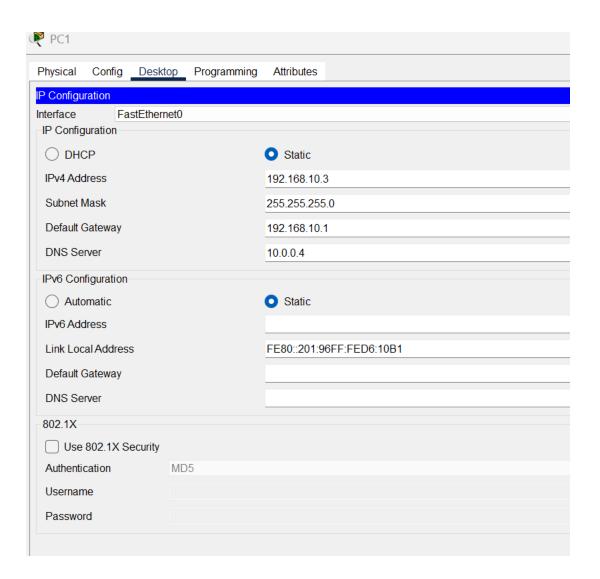
Task 2:



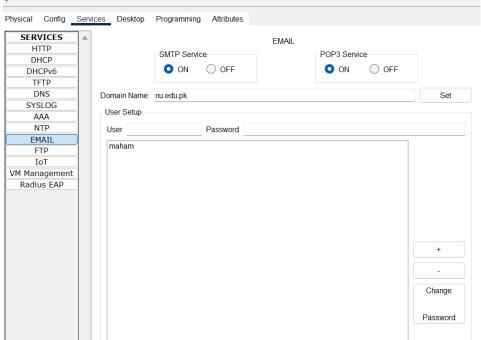


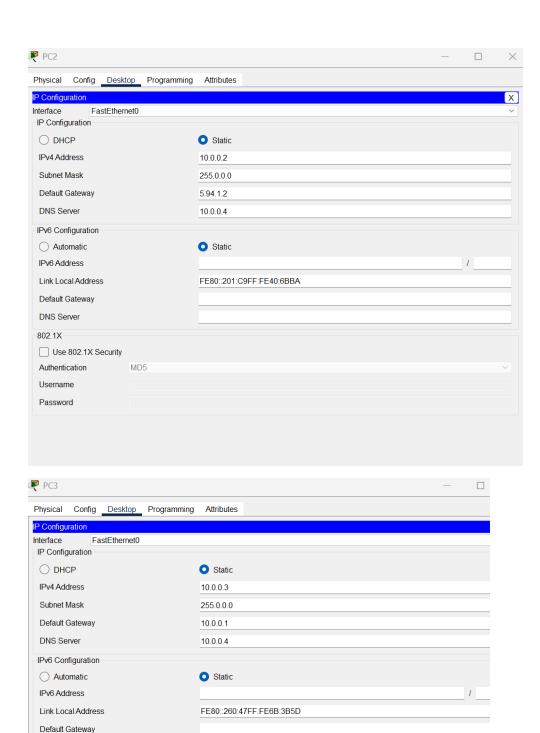












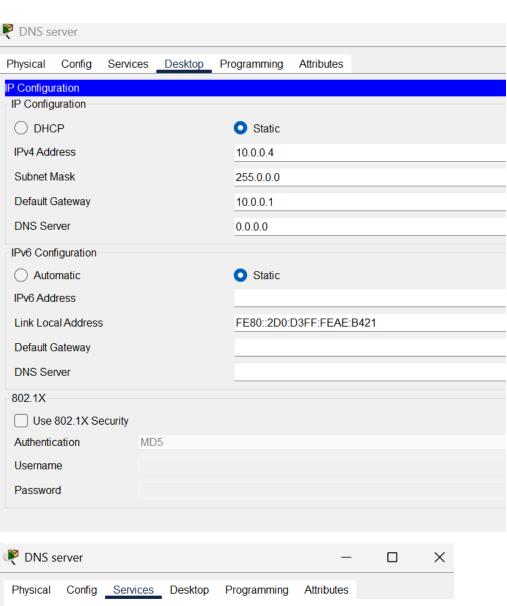
DNS Server 802.1X

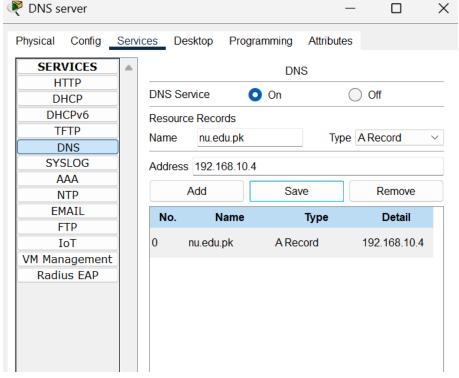
Username Password

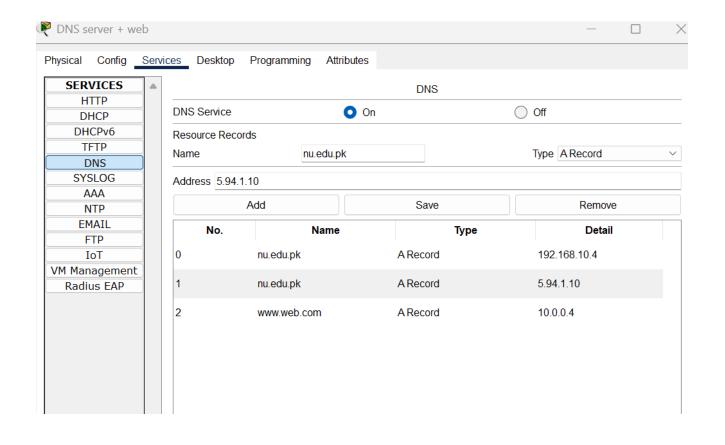
Use 802.1X Security

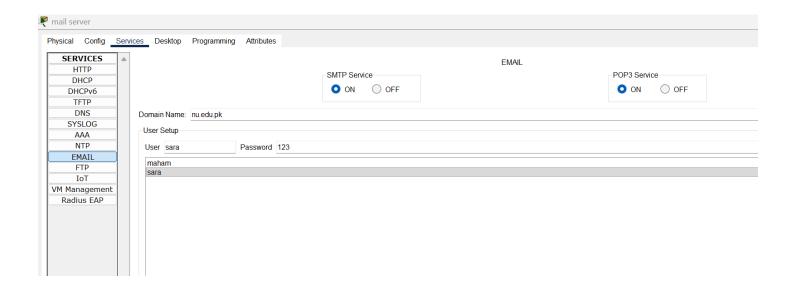
Authentication

MD5







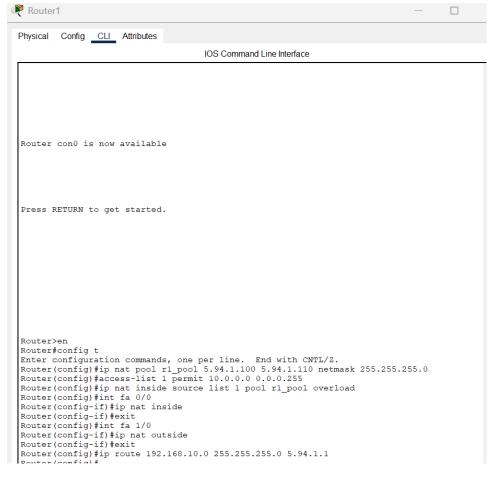




Physical Config CLI Attributes

IOS Command Line Interface

```
Software clause at DFARS sec. 252.227-7013.
           cisco Systems, Inc.
           170 West Tasman Drive
           San Jose, California 95134-1706
Cisco Internetwork Operating System Software
IOS (tm) PT1000 Software (PT1000-I-M), Version 12.2(28), RELEASE SOFTWARE (fc5)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2005 by cisco Systems, Inc.
Compiled Wed 27-Apr-04 19:01 by miwang
PT 1001 (PTSC2005) processor (revision 0x200) with 60416K/5120K bytes of memory
Processor board ID PT0123 (0123)
PT2005 processor: part number 0, mask 01
Bridging software.
X.25 software, Version 3.0.0.
4 FastEthernet/IEEE 802.3 interface(s)
2 Low-speed serial(sync/async) network interface(s)
32K bytes of non-volatile configuration memory.
63488K bytes of ATA CompactFlash (Read/Write)
Press RETURN to get started!
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up
Router>en
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #ip nat inside source static 192.168.10.4 5.94.1.10
Router(config) #int fa 0/0
Router(config-if) #ip nat inside
Router(config-if)#exit
Router(config) #int fa 1/0
Router(config-if)#ip nat outside
Router>en
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #ip nat inside source static 192.168.10.4 5.94.1.10
Router(config) #int fa 0/0
Router(config-if) #ip nat inside
Router(config-if)#exit
Router(config) #int fa 1/0
Router(config-if) #ip nat outside
Router(config-if)#exit
Router(config) #ip route 10.0.0.0 255.255.255.0 5.94.1.2
```



Verifying nat:

Router 0:

```
Router#show ip interface brief
                                  IP-Address OK? Method Status Proto
192.168.10.1 YES manual up up
5.94.1.1 YES manual up up
unassigned YES unset administratively down down
                             IP-Address
Interface
                                                                                                                      Protocol
FastEthernet0/0
FastEthernet1/0
Serial2/0
Serial3/0
FastEthernet4/0
FastEthernet5/0
Router#ip nat translations
% Invalid input detected at '^' marker.
Router#show ip nat translations
                                                                                                  Outside global
Pro Inside global Inside local Outside local
       5.94.1.10
                                    192.168.10.4
```

```
PC1
                  Desktop_ Programming
 Physical
          Config
                                           Attributes
 Command Prompt
 Cisco Packet Tracer PC Command Line 1.0
 C:\>ping 192.168.10.1
 Pinging 192.168.10.1 with 32 bytes of data:
 Reply from 192.168.10.1: bytes=32 time<1ms TTL=255
 Reply from 192.168.10.1: bytes=32 time<1ms TTL=255 Reply from 192.168.10.1: bytes=32 time<1ms TTL=255
 Reply from 192.168.10.1: bytes=32 time<1ms TTL=255
 Ping statistics for 192.168.10.1:
 Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
      Minimum = 0ms, Maximum = 0ms, Average = 0ms
 C:\>
PC2 🎤
Physical
          Config
                 Desktop Programming
                                         Attributes
 Command Prompt
 Cisco Packet Tracer PC Command Line 1.0
 C:\>ping 10.0.0.1
```

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 10.0.0.1

Pinging 10.0.0.1 with 32 bytes of data:

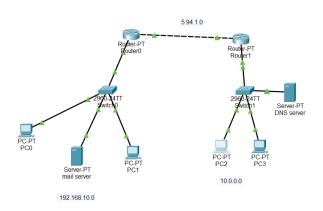
Reply from 10.0.0.1: bytes=32 time<1ms TTL=255
Reply from 10.0.0.1: bytes=32 time=1ms TTL=255

Ping statistics for 10.0.0.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

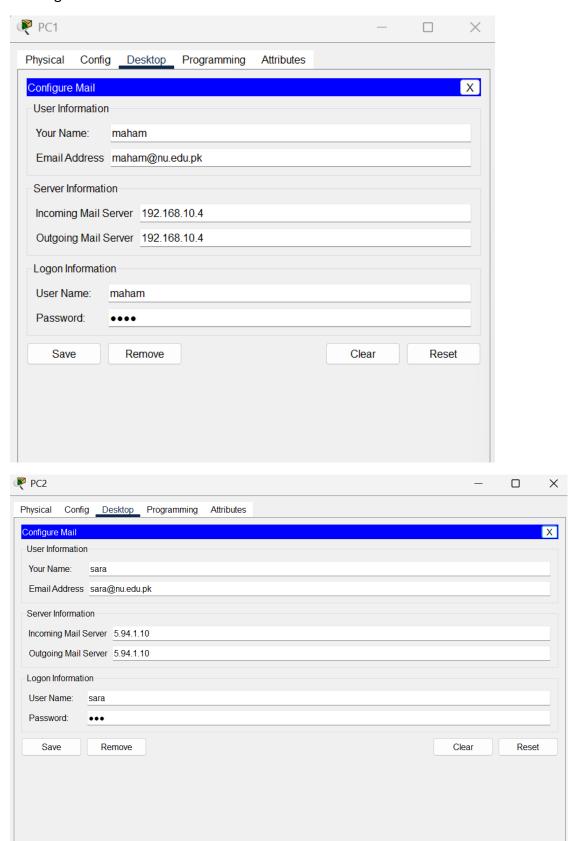
Minimum = 0ms, Maximum = 1ms, Average = 0ms

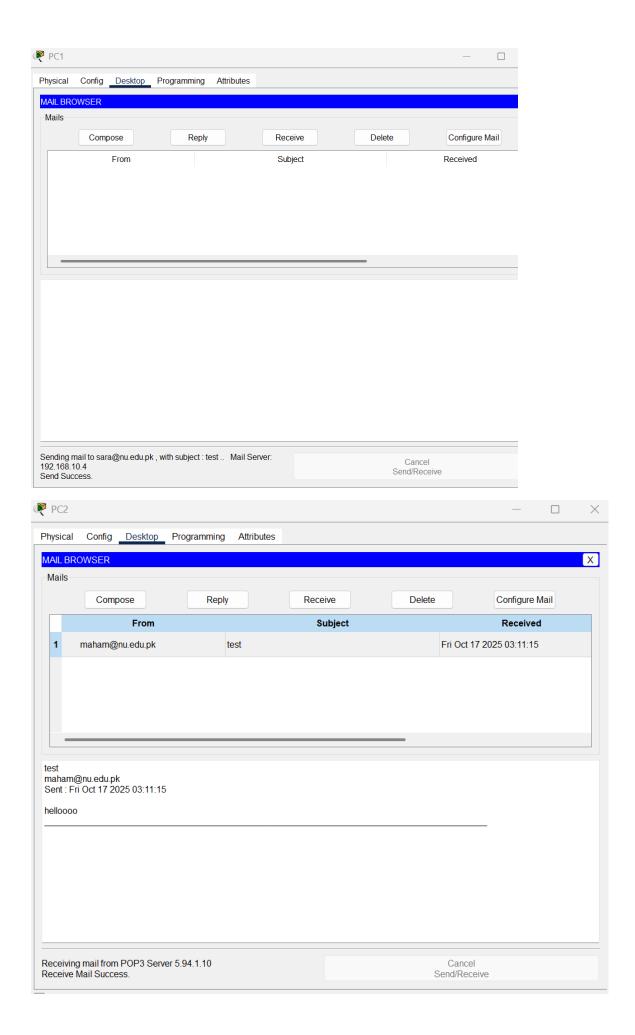
C:\>
```





Sending mail from PC1 to PC2:





hit the website from PCO.

