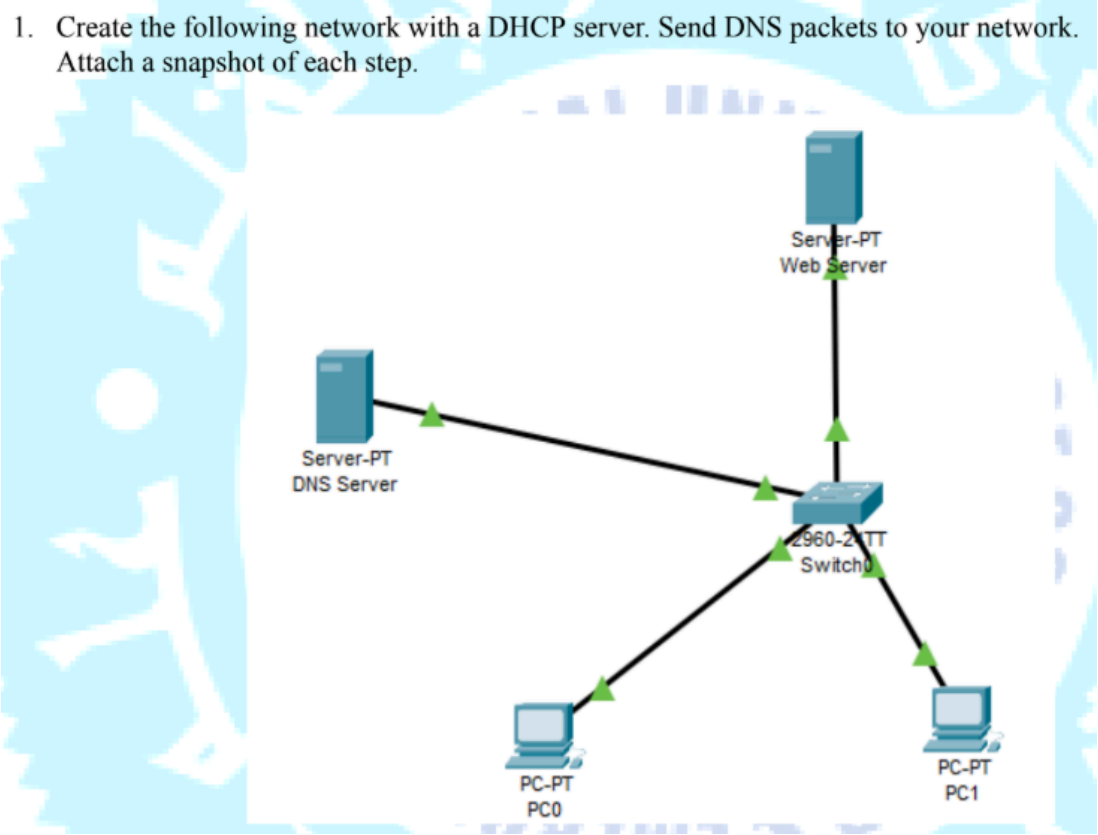
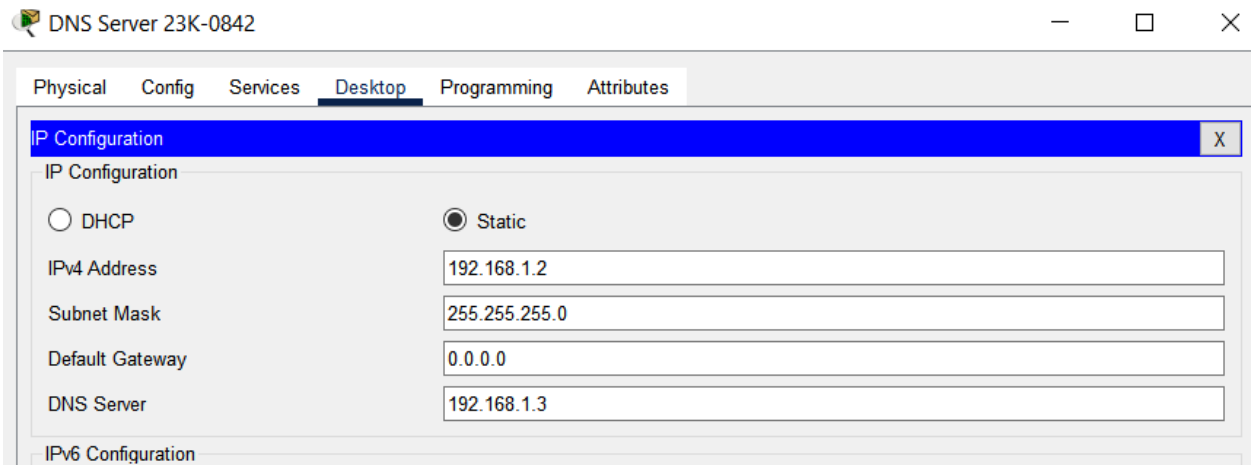
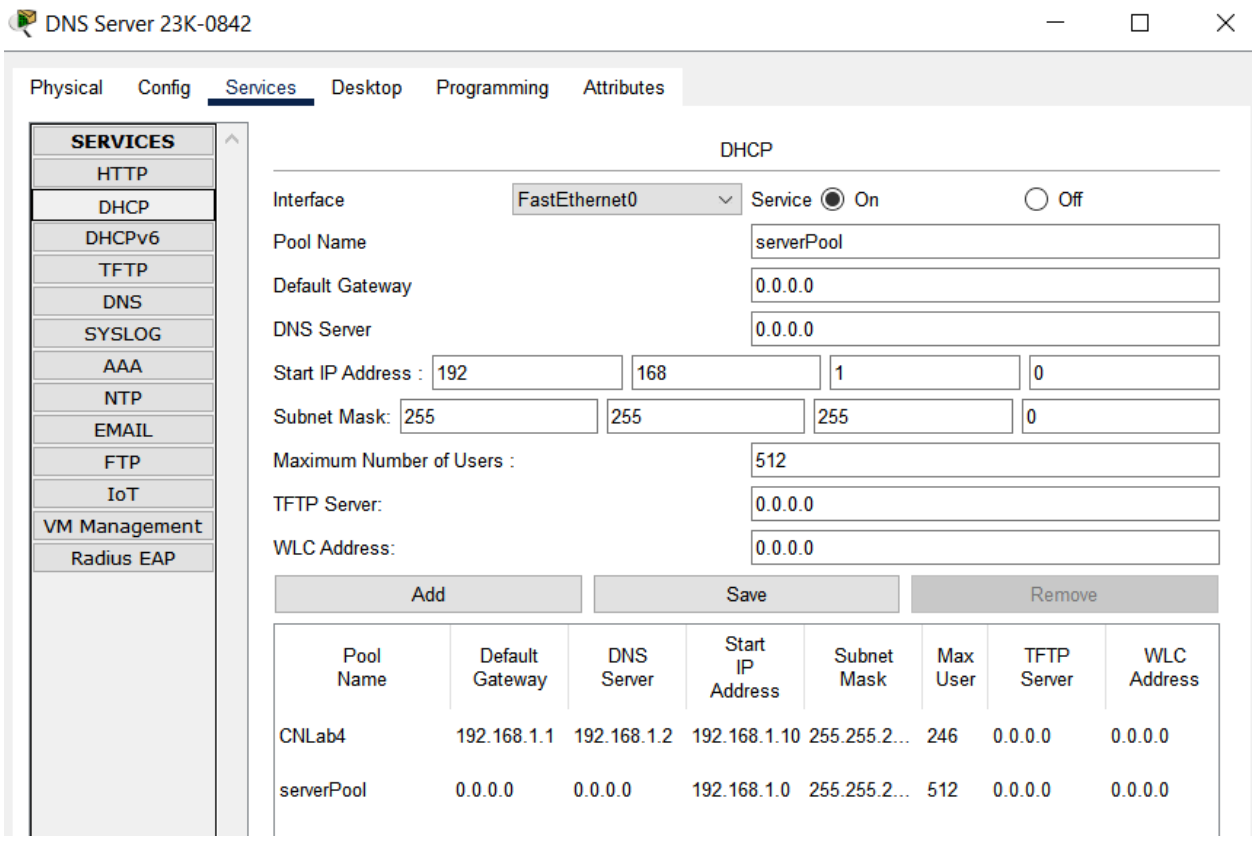
1. Create the following network with a DHCP server. Send DNS packets to your network. Attach a snapshot of each step.

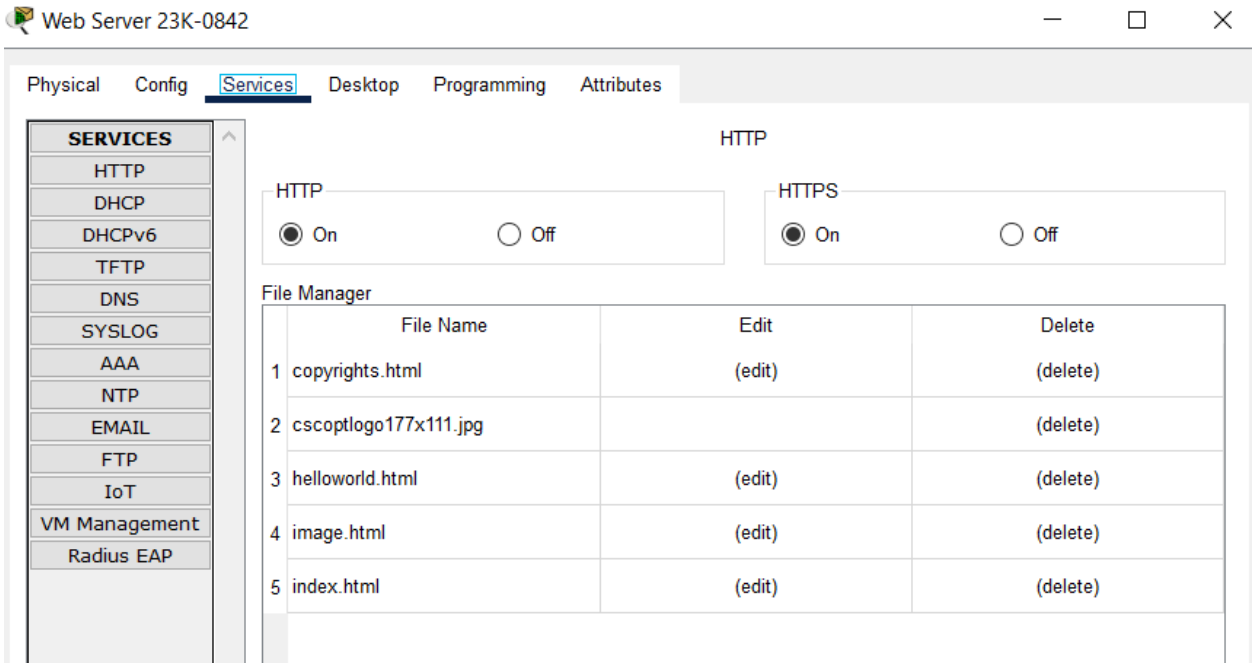


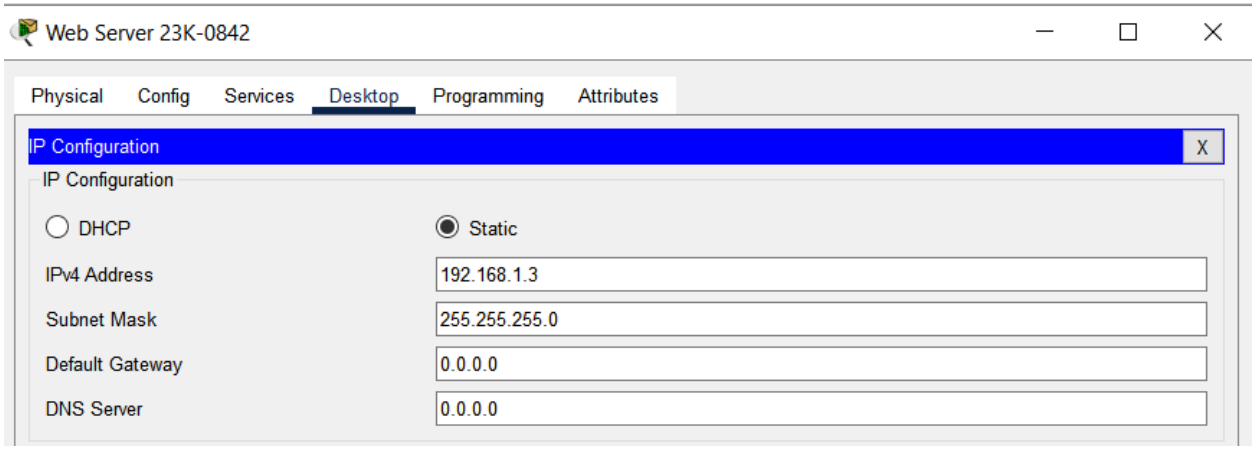
DNS Server

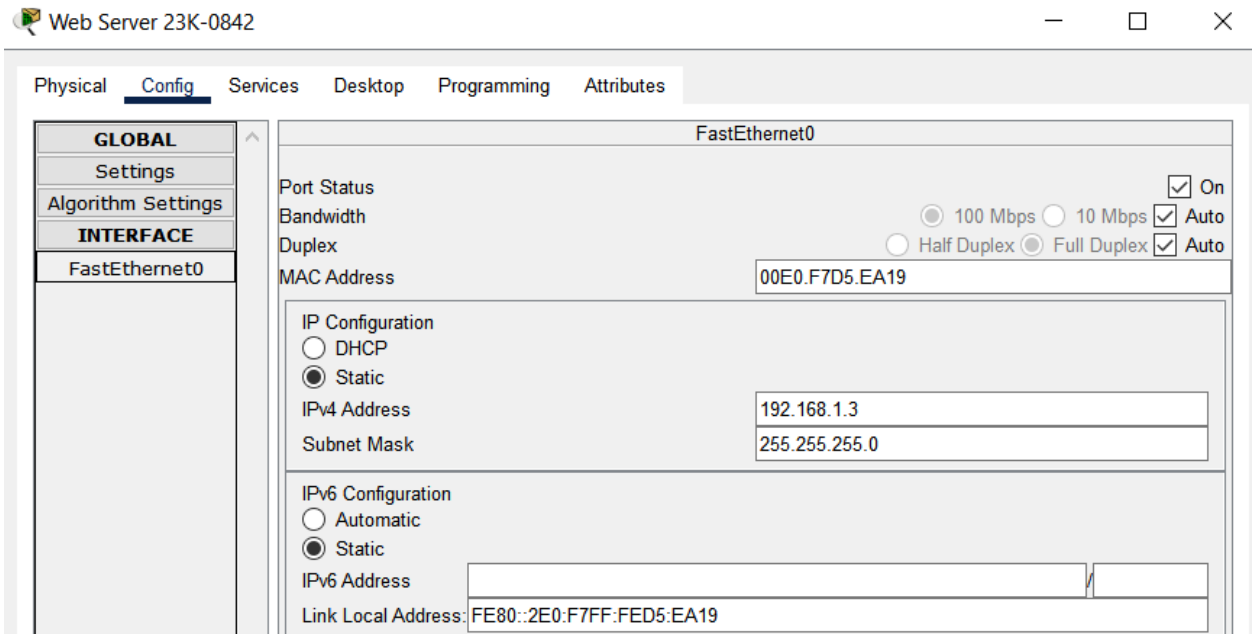


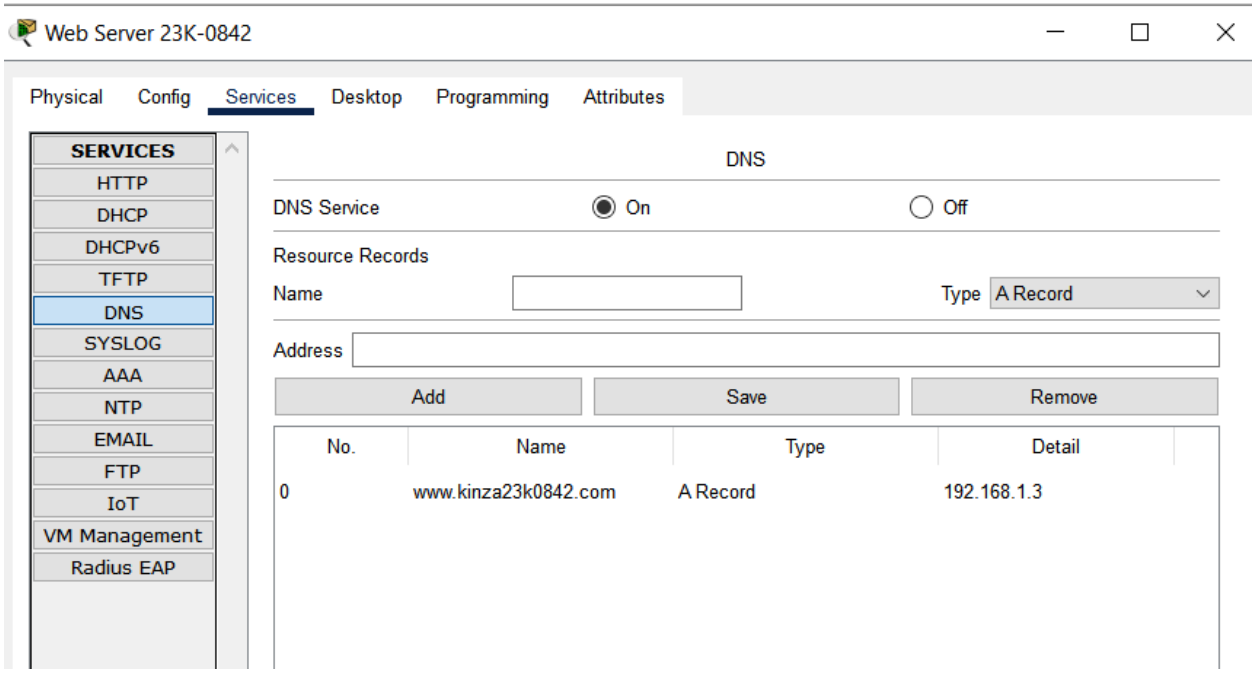


Configuring Web Server:

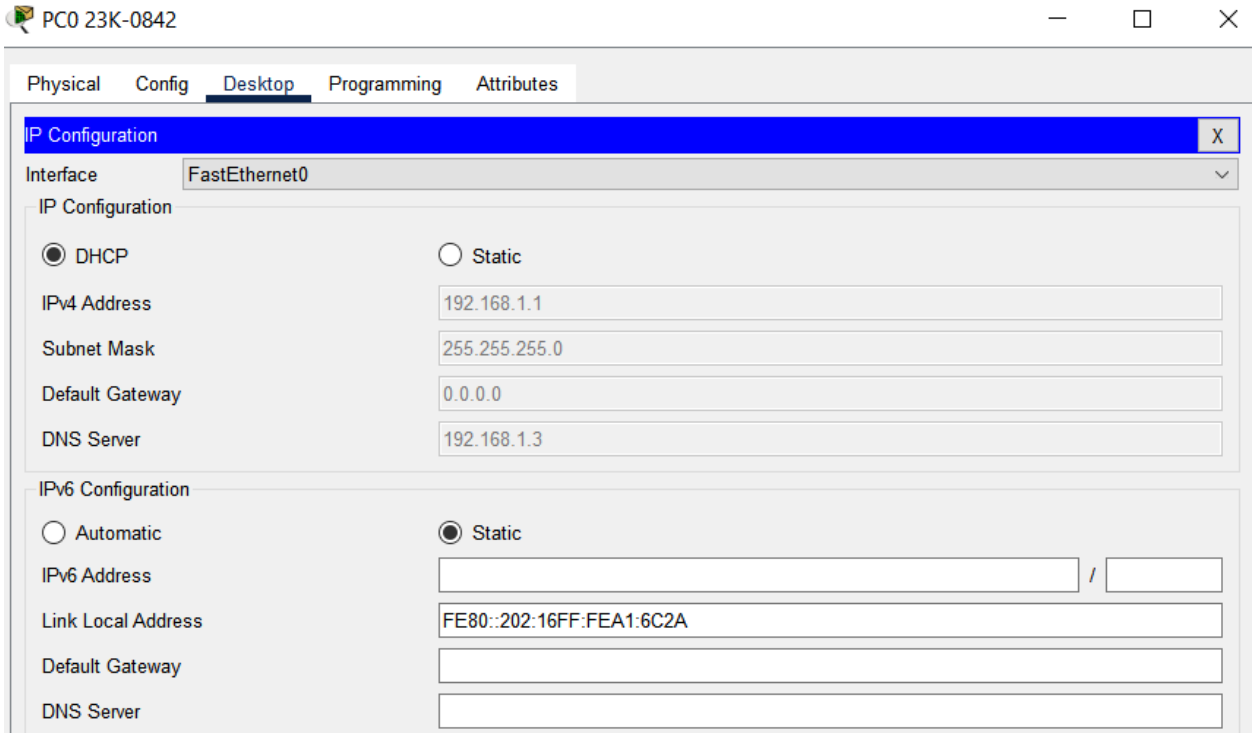


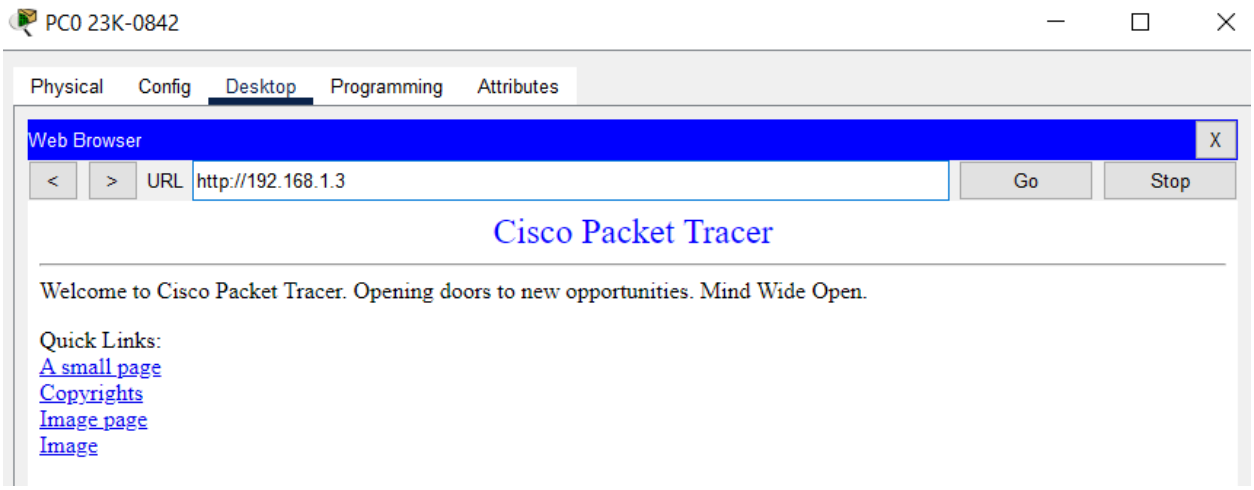

Web Server 23K-0842
Physical
Config
Services
Desktop
Programming
Attributes
IP Configuration
X
IP Configuration
DHCP
Static
IPv4 Address
192.168.1.3
Subnet Mask
255.255.255.0
Default Gateway
0.0.0.0
DNS Server
0.0.0.0

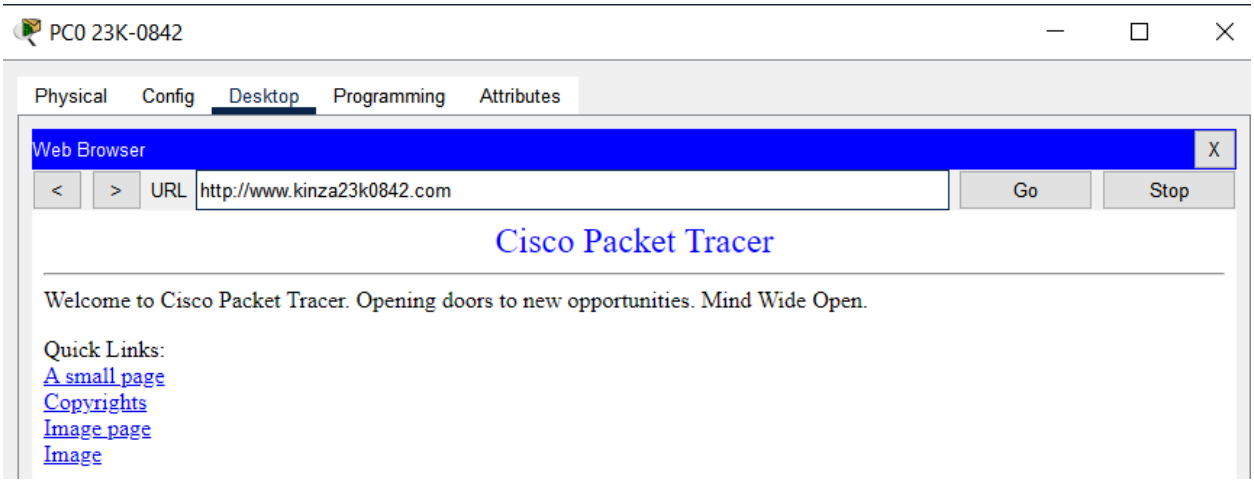

Web Server 23K-0842
Physical
Config
Services
Desktop
Programming
Attributes
GLOBAL
Settings
Algorithm Settings
INTERFACE
FastEthernet0
FastEthernet0
Port Status
On
Bandwidth
100 Mbps
10 Mbps
Auto
Duplex
Half Duplex
Full Duplex
Auto
MAC Address
00E0.F7D5.EA19
IP Configuration
DHCP
Static
IPv4 Address
192.168.1.3
Subnet Mask
255.255.255.0
IPv6 Configuration
Automatic
Static
IPv6 Address
Link Local Address:
FE80::2E0:F7FF:FED5:EA19


Web Server 23K-0842
Physical
Config
Services
Desktop
Programming
Attributes
SERVICES
HTTP
DHCP
DHCPv6
TFTP
DNS
SYSLOG
AAA
NTP
EMAIL
FTP
IoT
VM Management
Radius EAP
DNS
DNS Service
On
Off
Resource Records
Name
Type
A Record
Address
Add
Save
Remove
No.
Name
Type
Detail
0
www.kinza23k0842.com
A Record
192.168.1.3

PC0:

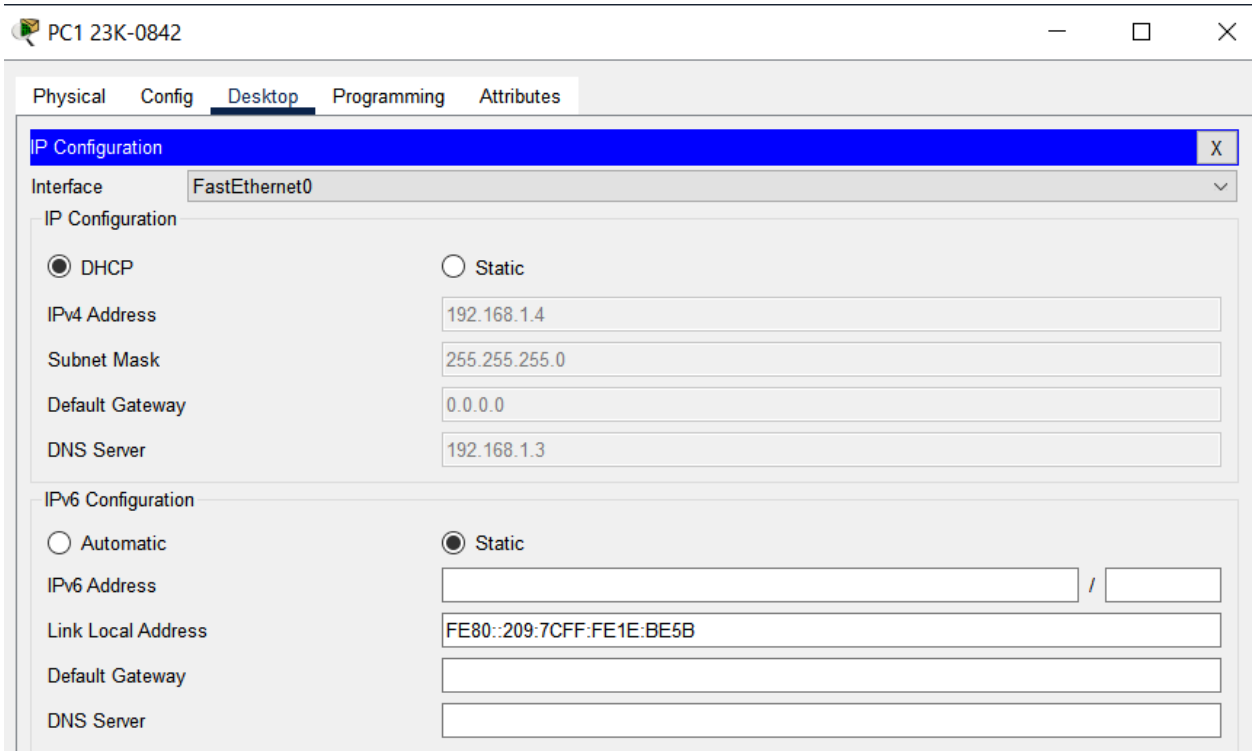

PC0 23K-0842
Physical
Config
Desktop
Programming
Attributes
IP Configuration
X
Interface
FastEthernet0
IP Configuration
DHCP
Static
IPv4 Address
192.168.1.1
Subnet Mask
255.255.255.0
Default Gateway
0.0.0.0
DNS Server
192.168.1.3
IPv6 Configuration
Automatic
Static
IPv6 Address
Link Local Address
FE80::202:16FF:FEA1:6C2A
Default Gateway
DNS Server

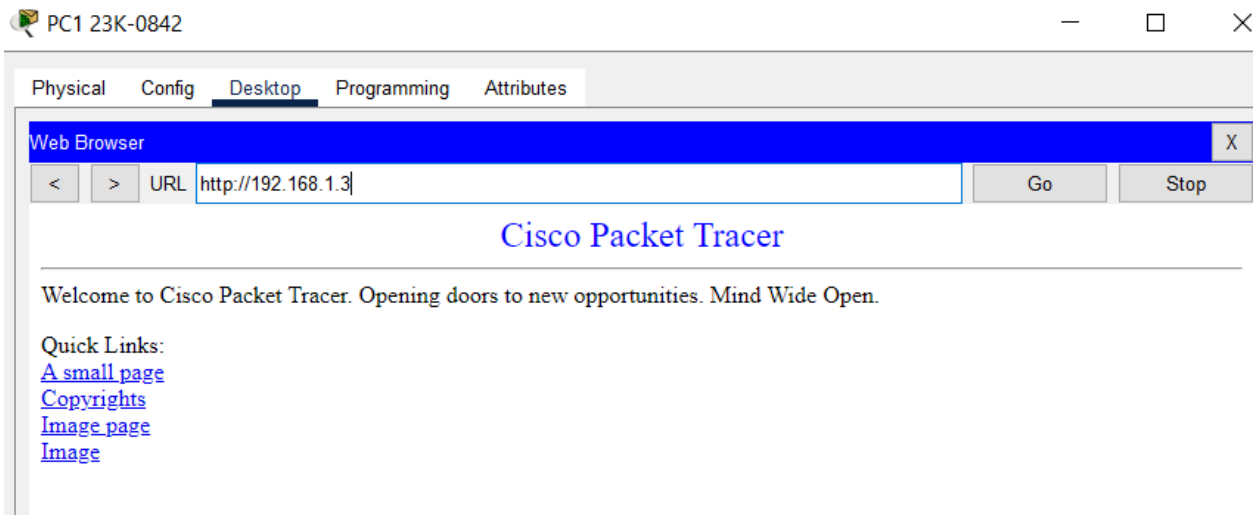




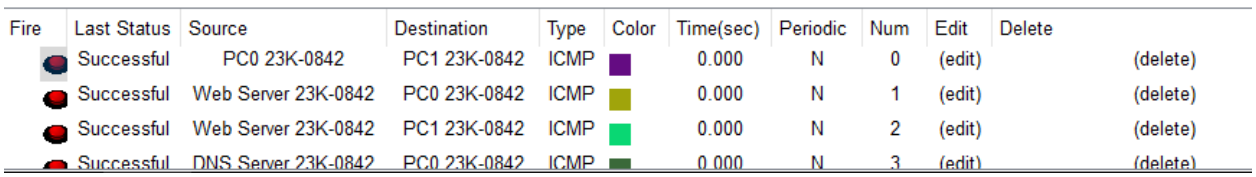

```
C:\>ping 192.168.1.3

Pinging 192.168.1.3 with 32 bytes of data:

Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

PC1:





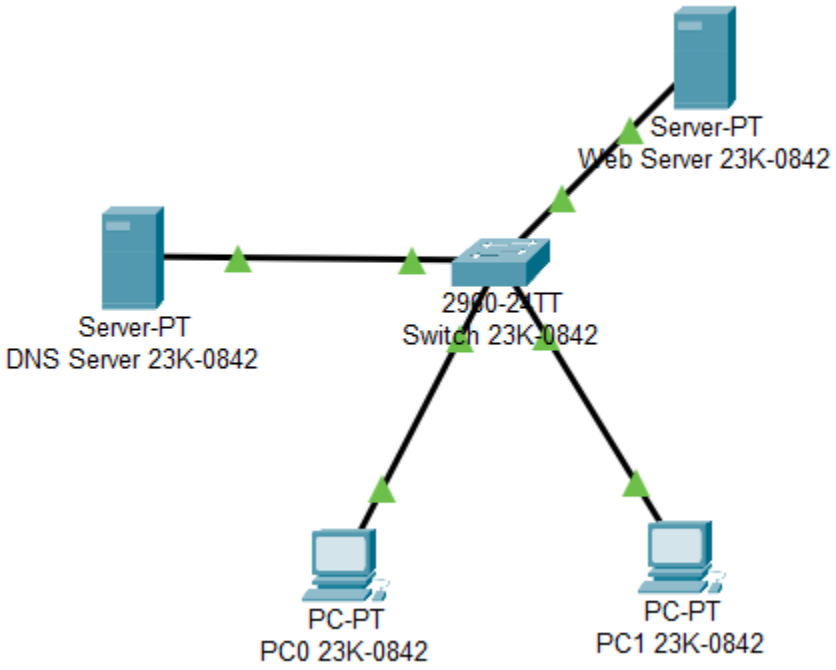
Simple PDU Usage Sending DNS packets:



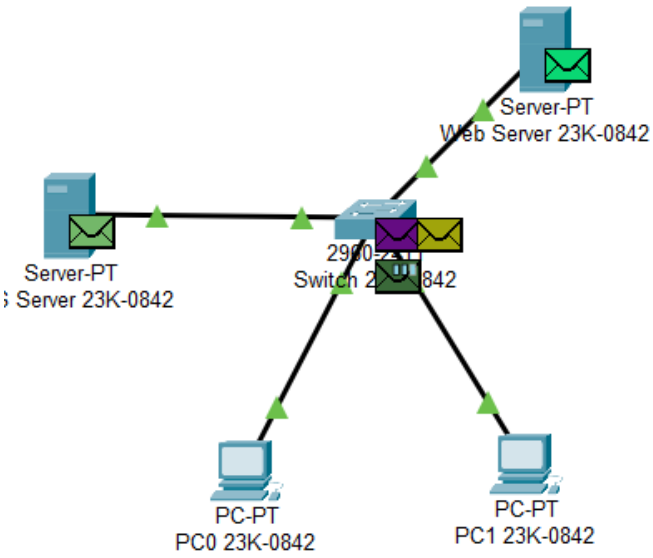
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC0 23K-0842	PC1 23K-0842	ICMP		0.000	N	0	(edit)	(delete)
	Successful	Web Server 23K-0842	PC0 23K-0842	ICMP		0.000	N	1	(edit)	(delete)
	Successful	Web Server 23K-0842	PC1 23K-0842	ICMP		0.000	N	2	(edit)	(delete)
	Successful	DNS Server 23K-0842	PC0 23K-0842	ICMP		0.000	N	3	(edit)	(delete)

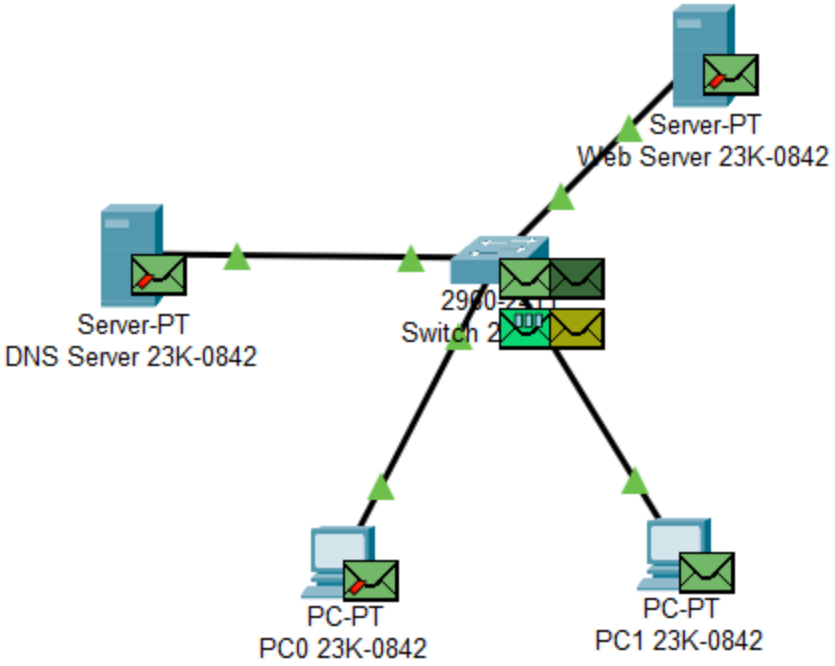
Successful	Web Server 23K-0842	PC1 23K-0842	ICMP	0.000	N	2	(edit)	(delete)
Successful	DNS Server 23K-0842	PC0 23K-0842	ICMP	0.000	N	3	(edit)	(delete)

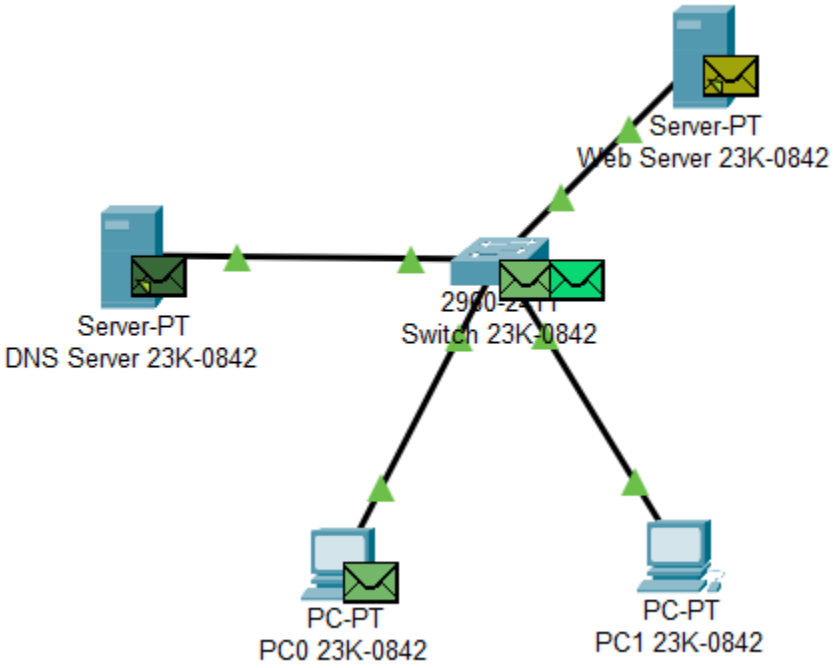
REAL - TIME:

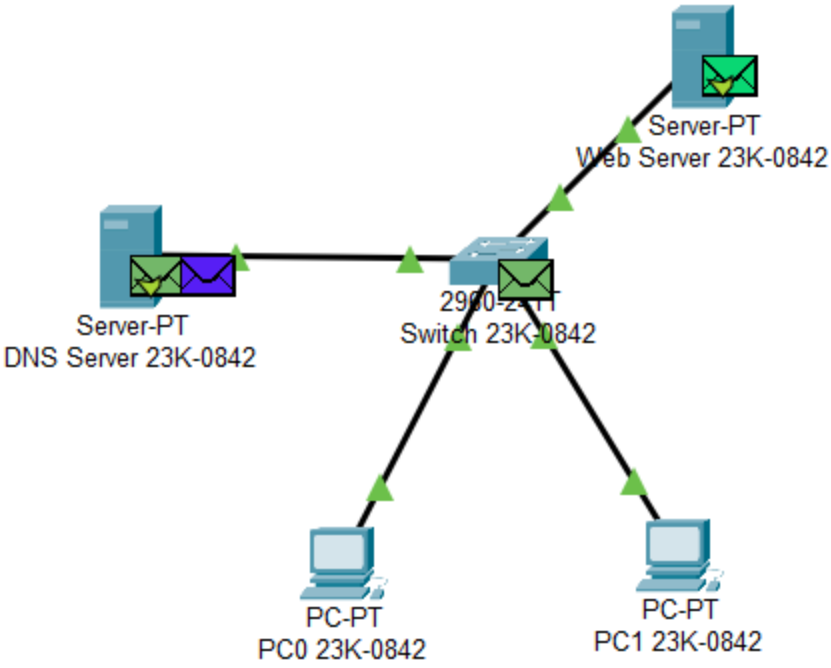


SIMULATION:

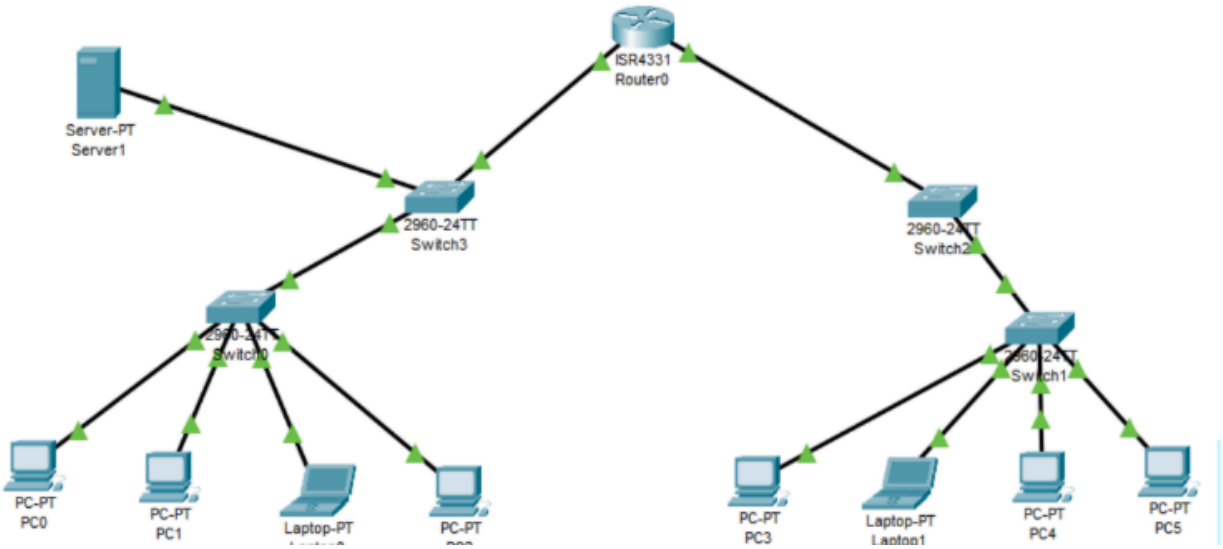


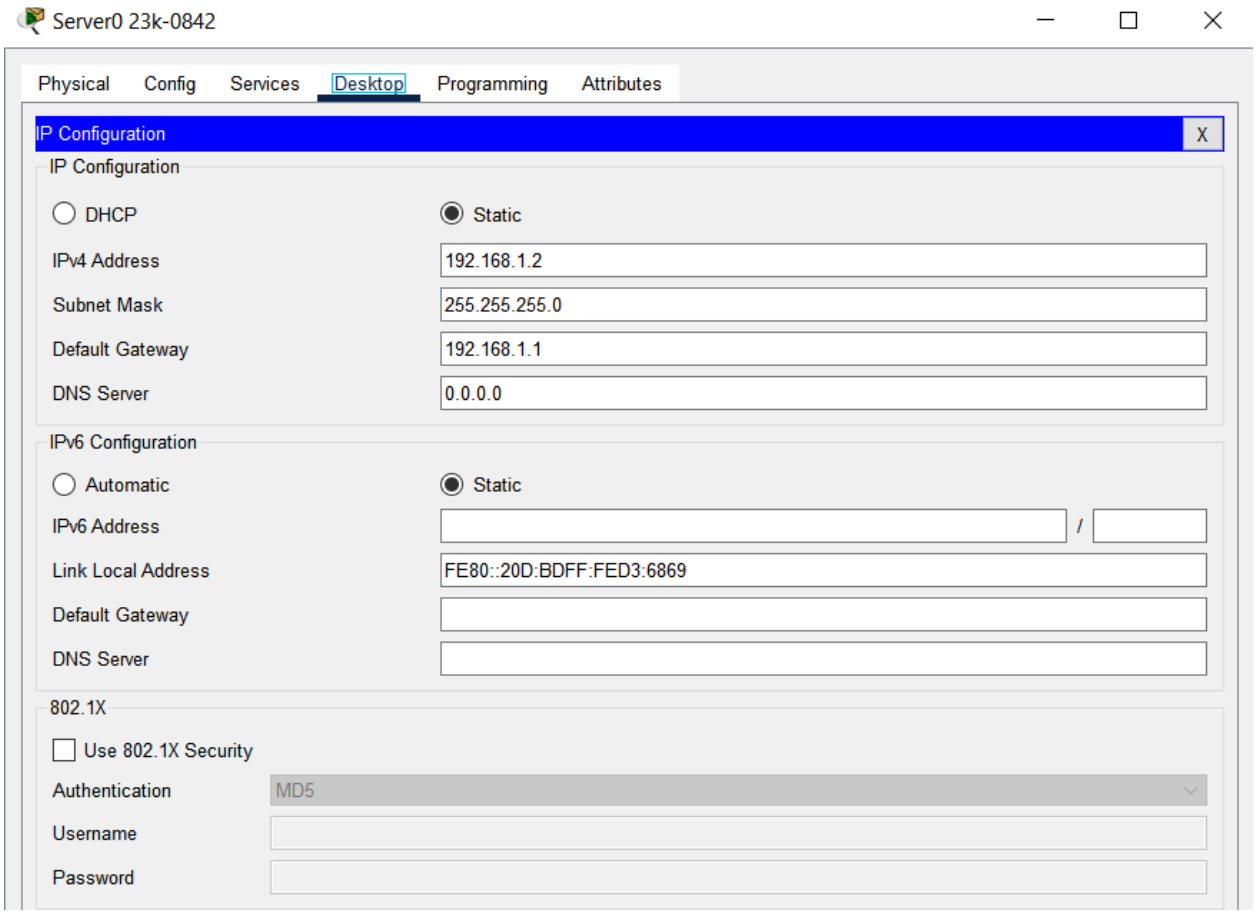

Server-PT
Web Server 23K-0842
Server-PT
DNS Server 23K-0842
PC-PT
PC0 23K-0842
PC-PT
PC1 23K-0842

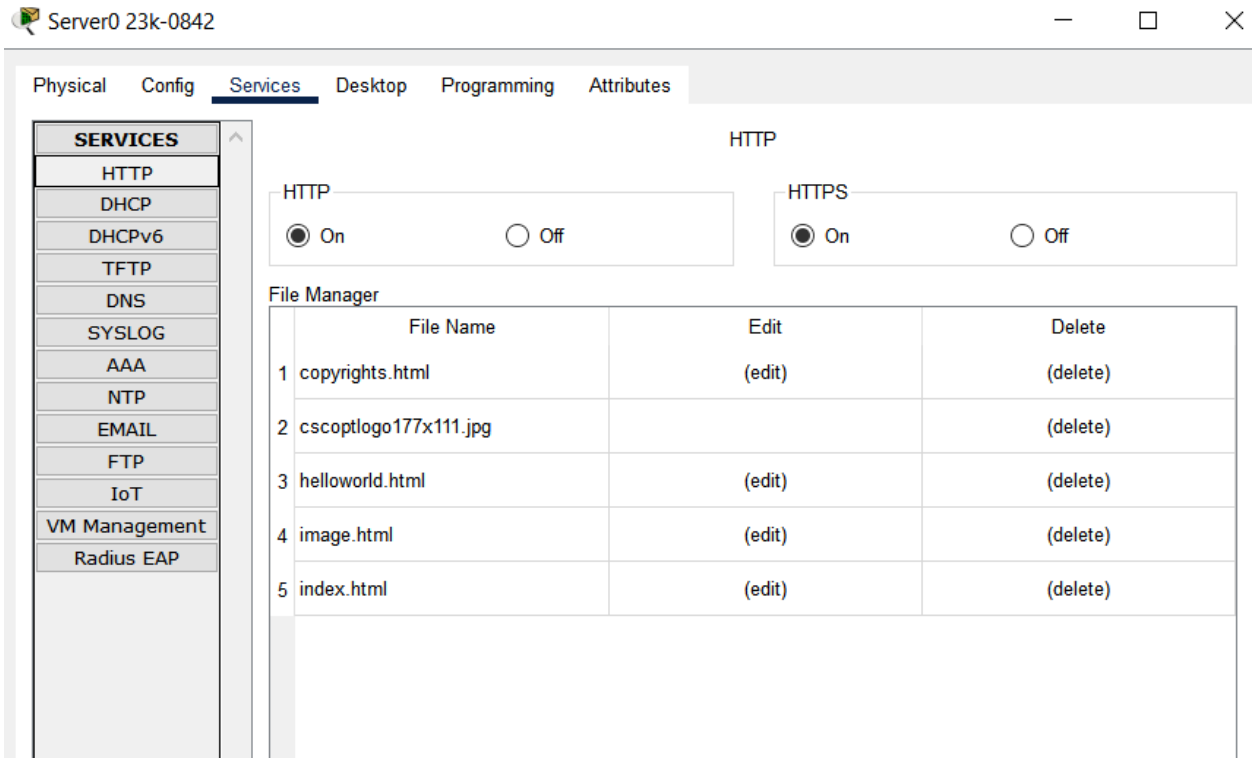

Server-PT
Web Server 23K-0842
Server-PT
DNS Server 23K-0842
Switch 23K-0842
PC-PT
PC0 23K-0842
PC-PT
PC1 23K-0842

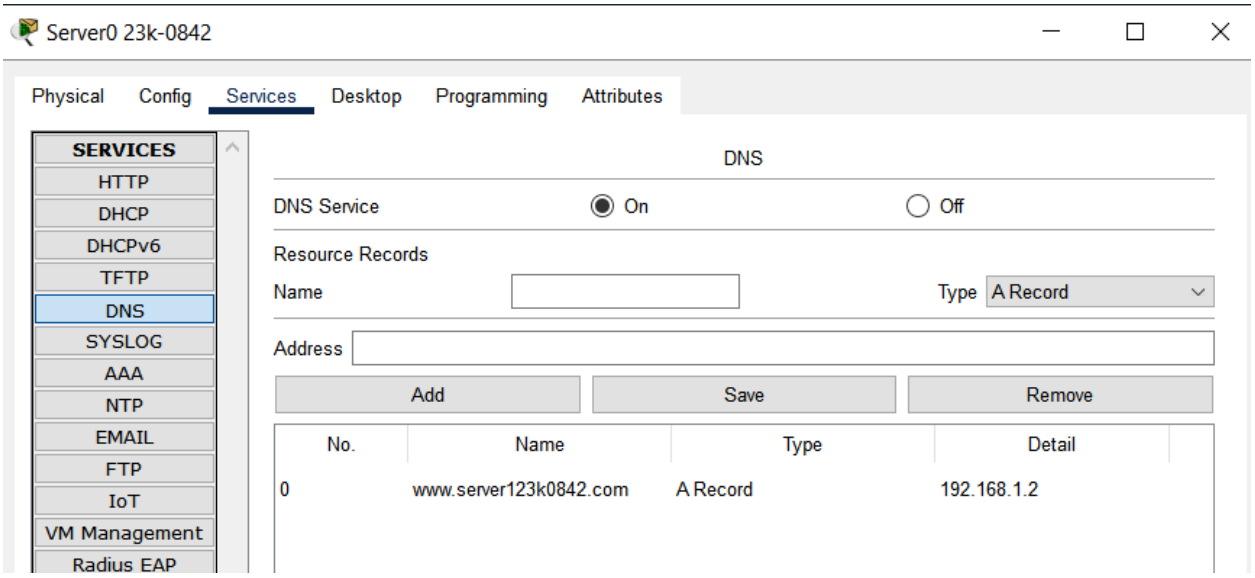


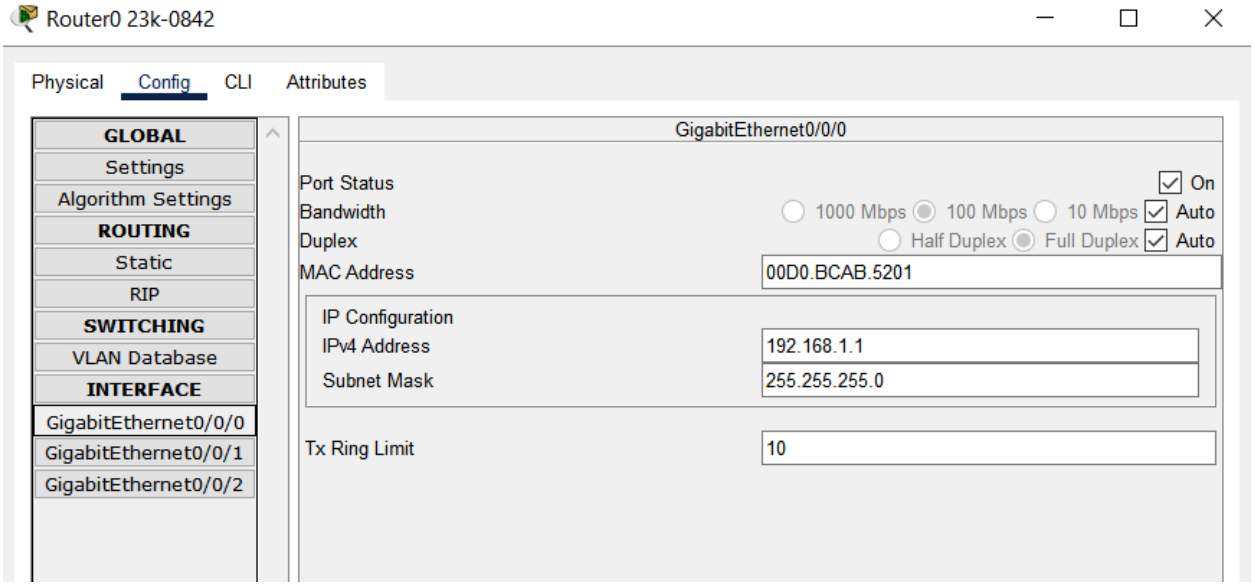
2. Implement the given topology. Add some web servers to your network. Implement DNS & add records of your web servers.
Attach a snapshot of each step.

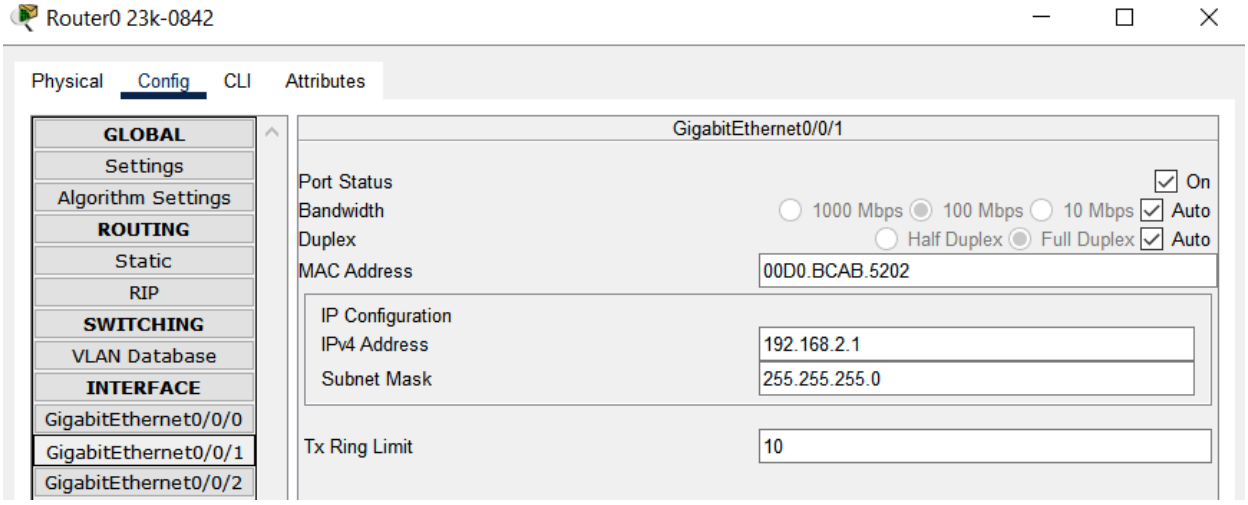



Server0 23k-0842
Physical
Config
Services
Desktop
Programming
Attributes
IP Configuration
X
IP Configuration
DHCP
Static
IPv4 Address
192.168.1.2
Subnet Mask
255.255.255.0
Default Gateway
192.168.1.1
DNS Server
0.0.0.0
IPv6 Configuration
Automatic
Static
IPv6 Address
Link Local Address
FE80::20D:BDFF:FED3:6869
Default Gateway
DNS Server
802.1X
Use 802.1X Security
Authentication
MD5
Username
Password


Server0 23k-0842
Physical
Config
Services
Desktop
Programming
Attributes
SERVICES
HTTP
DHCP
DHCPv6
TFTP
DNS
SYSLOG
AAA
NTP
EMAIL
FTP
IoT
VM Management
Radius EAP
HTTP
HTTP
On
Off
HTTPS
On
Off
File Manager
File Name
Edit
Delete
1 copyrights.html (edit) (delete)
2 cscoptlogo177x111.jpg (delete)
3 helloworld.html (edit) (delete)
4 image.html (edit) (delete)
5 index.html (edit) (delete)


Server0 23k-0842
Physical
Config
Services
Desktop
Programming
Attributes
SERVICES
HTTP
DHCP
DHCPv6
TFTP
DNS
SYSLOG
AAA
NTP
EMAIL
FTP
IoT
VM Management
Radius EAP
DNS
DNS Service
On
Off
Resource Records
Name
Type
A Record
Address
Add
Save
Remove
No.
Name
Type
Detail
0
www.server123k0842.com
A Record
192.168.1.2


Router0 23k-0842
Physical
Config
CLI
Attributes
GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
SWITCHING
VLAN Database
INTERFACE
GigabitEthernet0/0/0
GigabitEthernet0/0/1
GigabitEthernet0/0/2
GigabitEthernet0/0/0
Port Status
On
Bandwidth
1000 Mbps
100 Mbps
10 Mbps
Auto
Duplex
Half Duplex
Full Duplex
Auto
MAC Address
00D0.BCAB.5201
IP Configuration
IPv4 Address
192.168.1.1
Subnet Mask
255.255.255.0
Tx Ring Limit
10


Router0 23k-0842
Physical
Config
CLI
Attributes
GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
SWITCHING
VLAN Database
INTERFACE
GigabitEthernet0/0/0
GigabitEthernet0/0/1
GigabitEthernet0/0/2
GigabitEthernet0/0/1
Port Status
On
Bandwidth
1000 Mbps
100 Mbps
10 Mbps
Auto
Duplex
Half Duplex
Full Duplex
Auto
MAC Address
00D0.BCAB.5202
IP Configuration
IPv4 Address
192.168.2.1
Subnet Mask
255.255.255.0
Tx Ring Limit
10

Router0 23k-0842

Physical Config CLI Attributes

IOS Command Line Interface

```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#interface GigabitEthernet0/0/0
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/0, changed state to up
ip address 192.168.1.1 255.255.255.0
Router(config-if)#ip address 192.168.1.1 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0/1
Router(config-if)#ip address 192.168.2.1 255.255.255.0
Router(config-if)#ip address 192.168.2.1 255.255.255.0
Router(config-if)#
Router(config-if)#
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0/1
Router(config-if)#ip address 192.168.2.1 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0/1
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/1, changed state to up
```

PC0 23k-0842

Physical Config Desktop Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

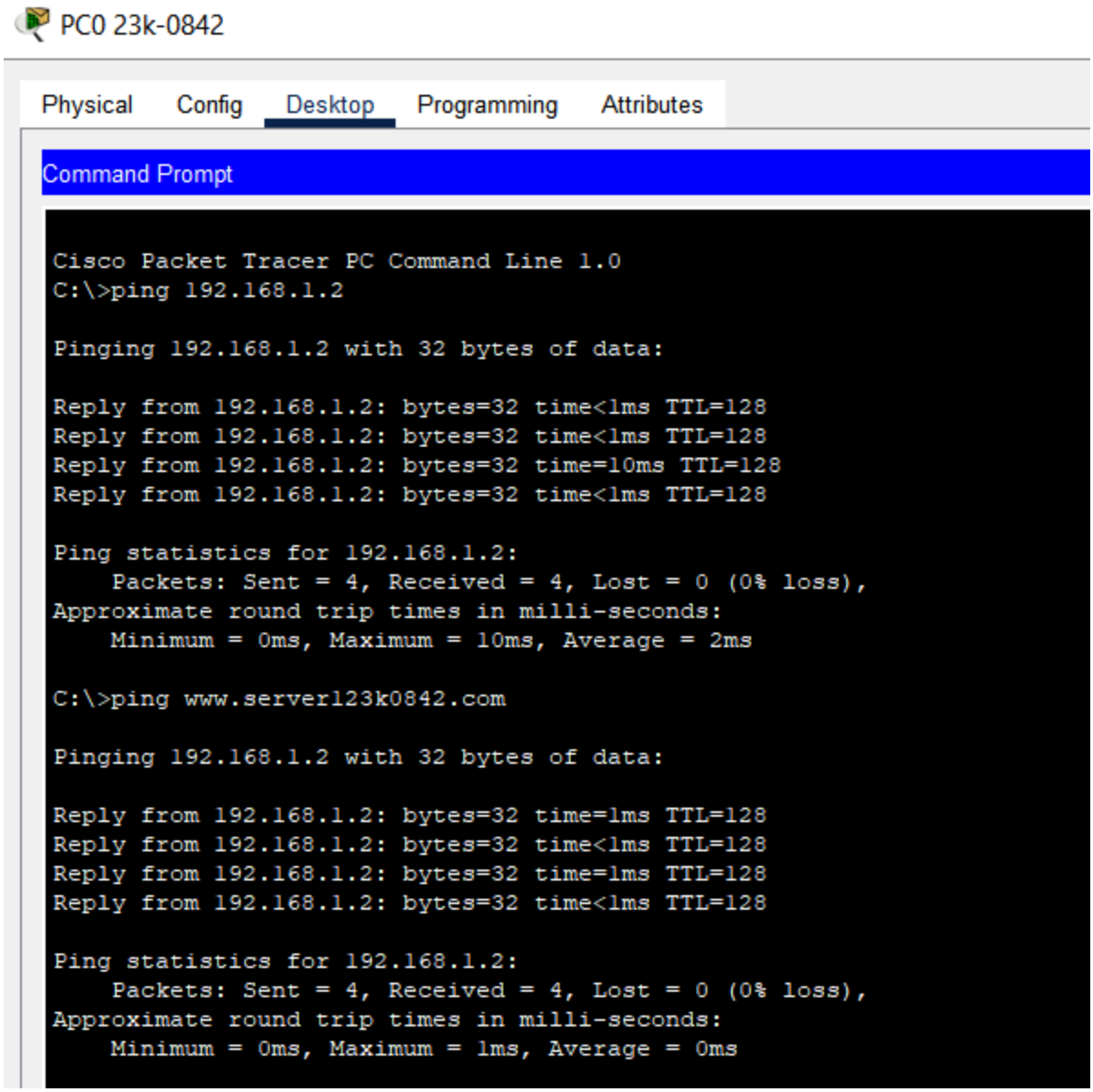
DHCP Static

IPv4 Address 192.168.1.110

Subnet Mask 255.255.255.0

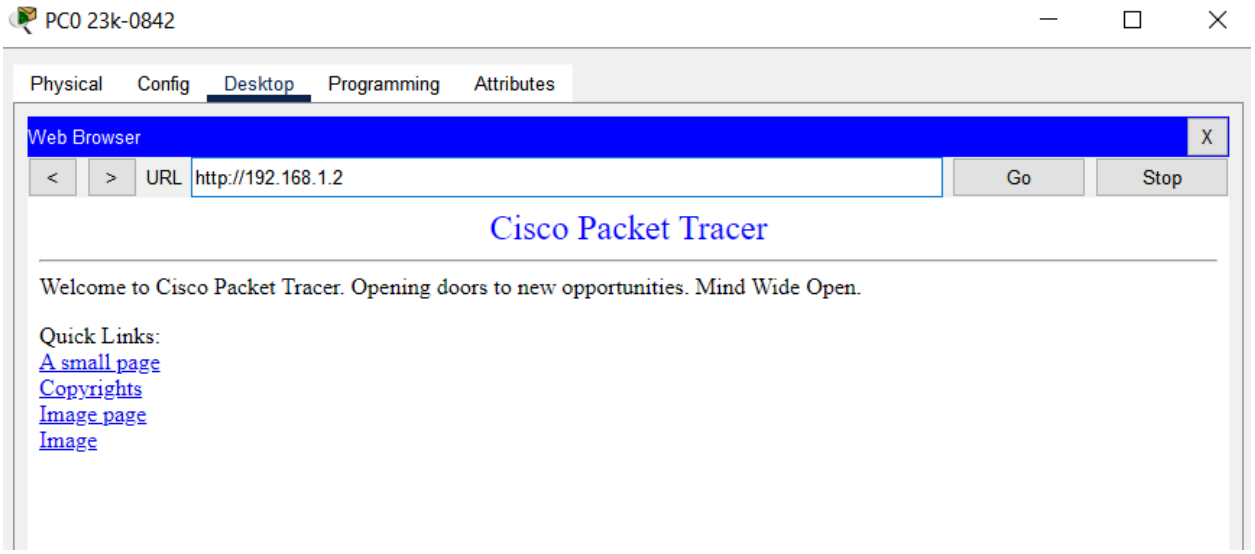
Default Gateway 192.168.1.1

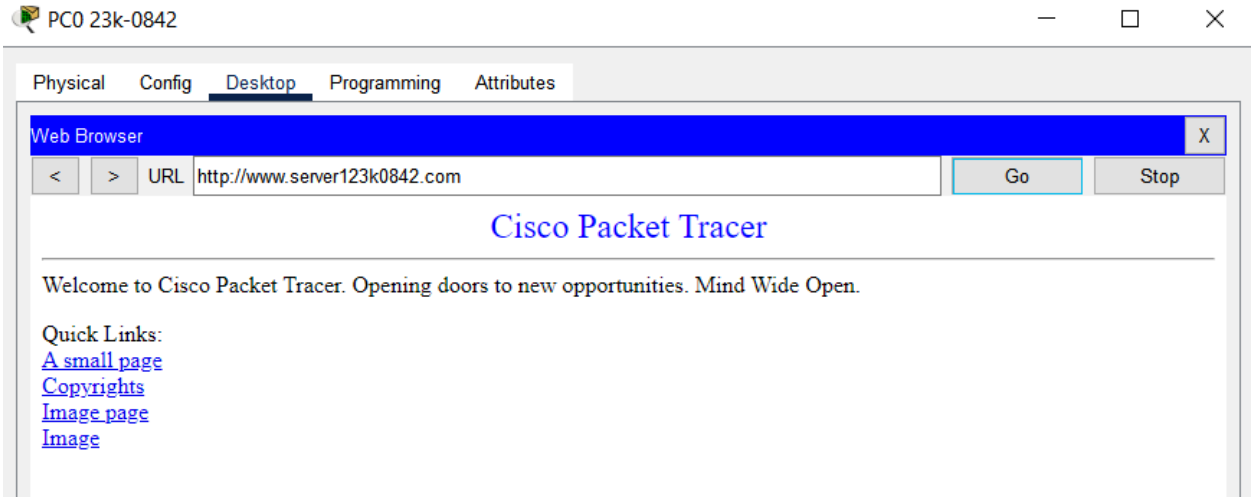
DNS Server 192.168.1.2

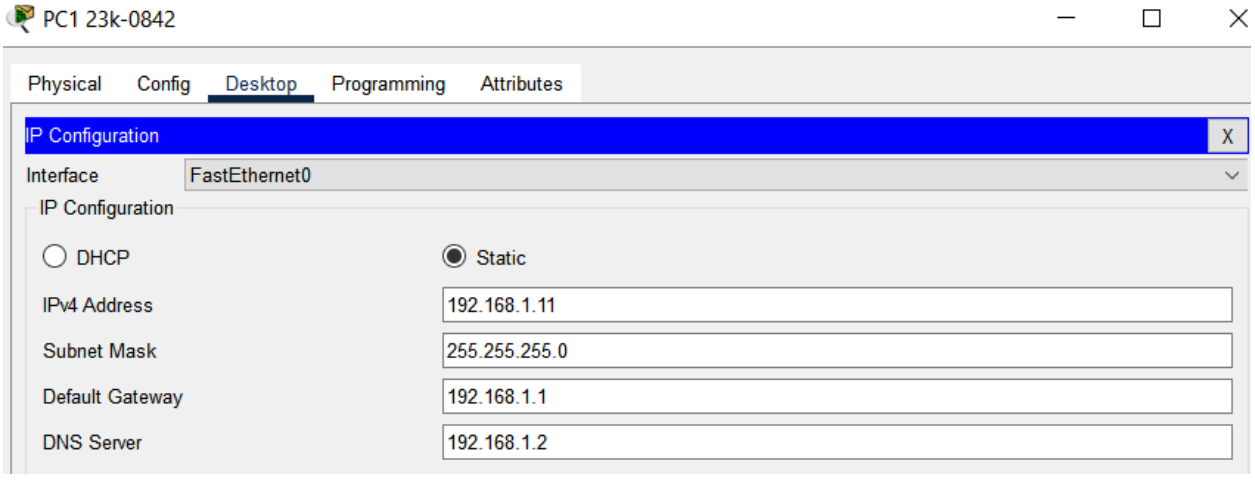


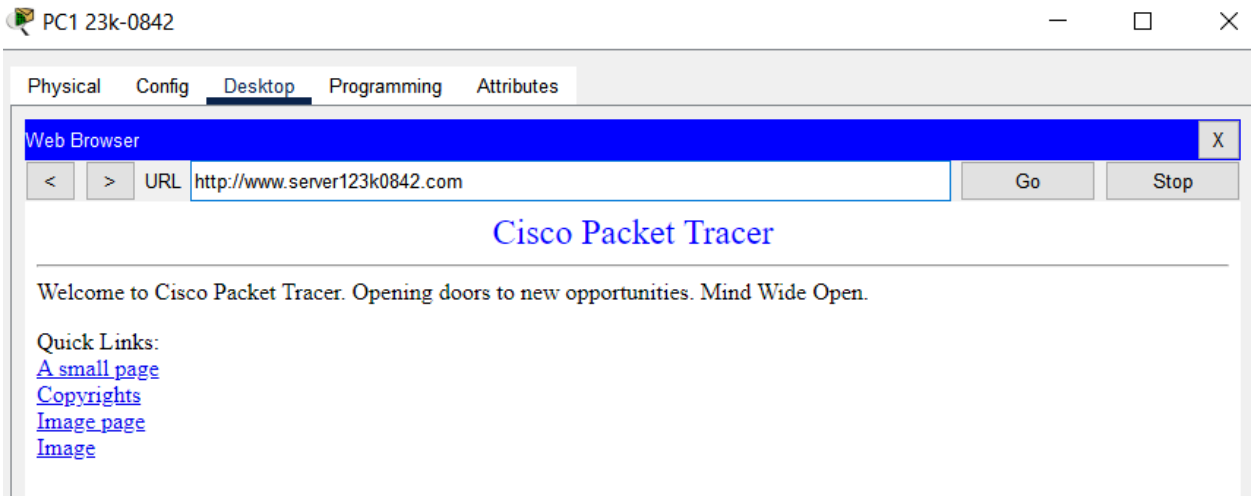
Ping www.server123k0842.com gives answer means that DNS server is able to resolve the hostname to IP address 192.168.1.2

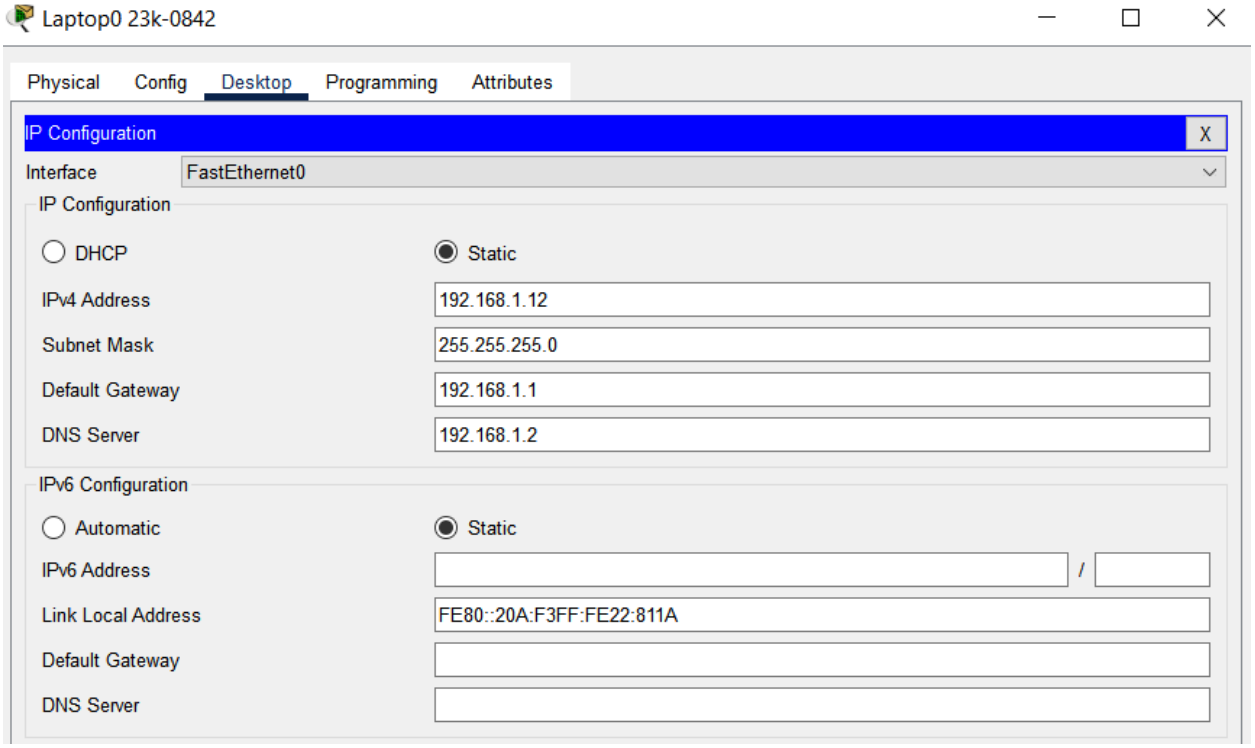
The DNS server is correctly resolving the hostname www.server123k0842.com → 192.168.1.2.

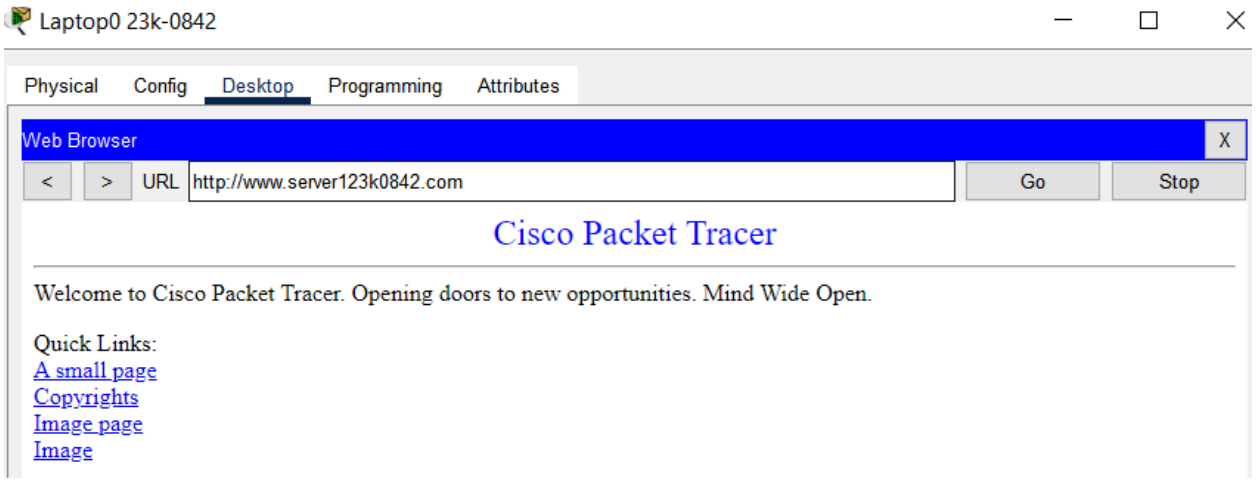

PC0 23k-0842
Physical
Config
Desktop
Programming
Attributes
Web Browser
X
<
>
URL
http://192.168.1.2
Go
Stop
Cisco Packet Tracer
Welcome to Cisco Packet Tracer. Opening doors to new opportunities. Mind Wide Open.
Quick Links:
A small page
Copyrights
Image page
Image

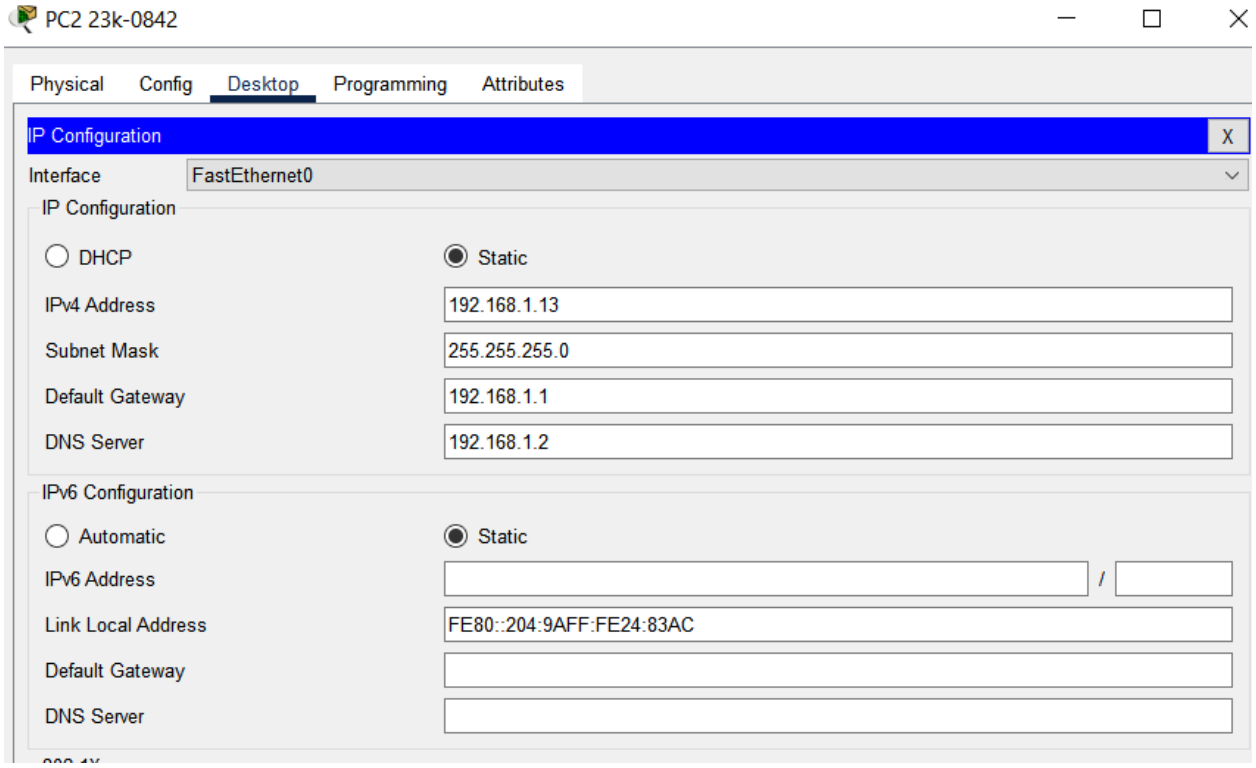

PC0 23k-0842
Physical
Config
Desktop
Programming
Attributes
Web Browser
X
<
>
URL
http://www.server123k0842.com
Go
Stop
Cisco Packet Tracer
Welcome to Cisco Packet Tracer. Opening doors to new opportunities. Mind Wide Open.
Quick Links:
A small page
Copyrights
Image page
Image

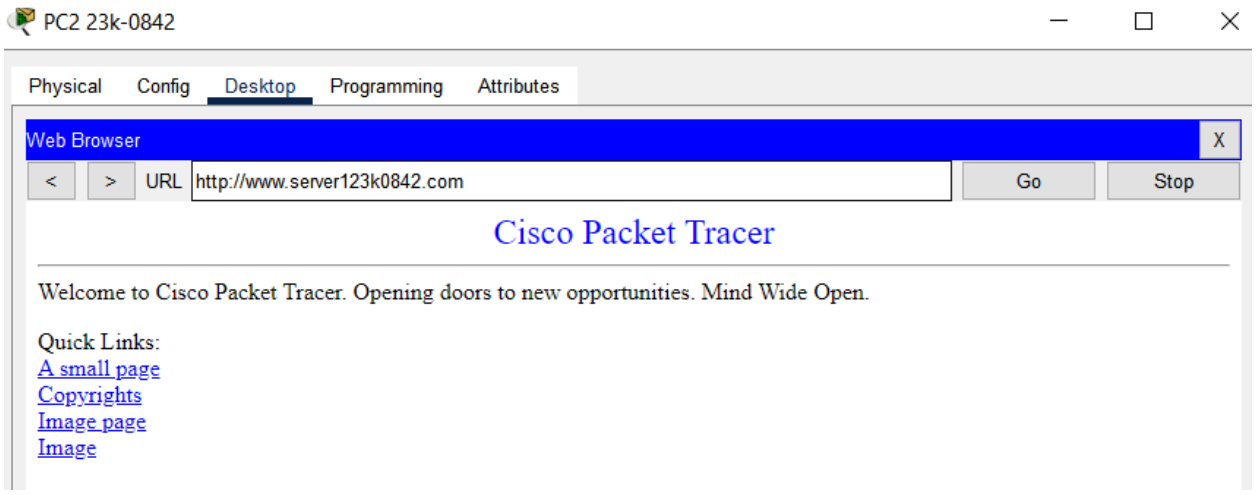

PC1 23k-0842
Physical
Config
Desktop
Programming
Attributes
IP Configuration
X
Interface
FastEthernet0
IP Configuration
DHCP
Static
IPv4 Address
192.168.1.11
Subnet Mask
255.255.255.0
Default Gateway
192.168.1.1
DNS Server
192.168.1.2

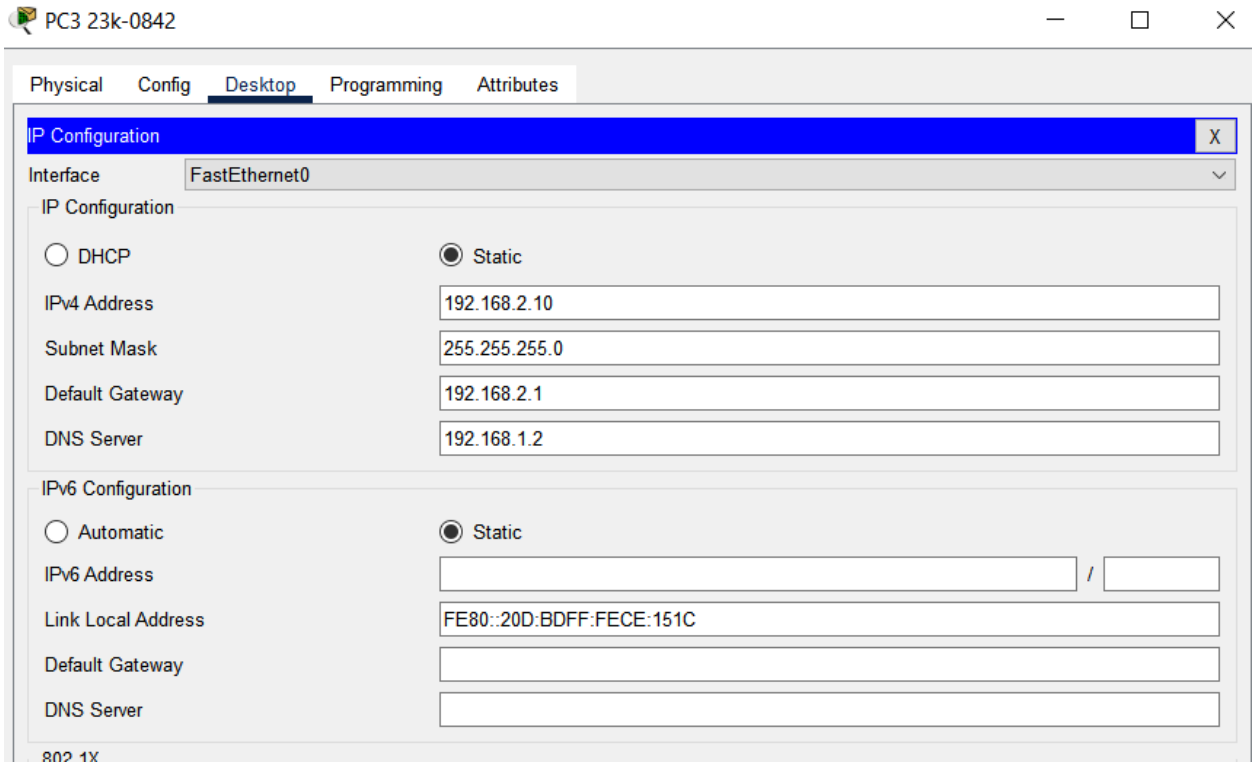

PC1 23k-0842
Physical
Config
Desktop
Programming
Attributes
Web Browser
X
<
>
URL
http://www.server123k0842.com
Go
Stop
Cisco Packet Tracer
Welcome to Cisco Packet Tracer. Opening doors to new opportunities. Mind Wide Open.
Quick Links:
A small page
Copyrights
Image page
Image

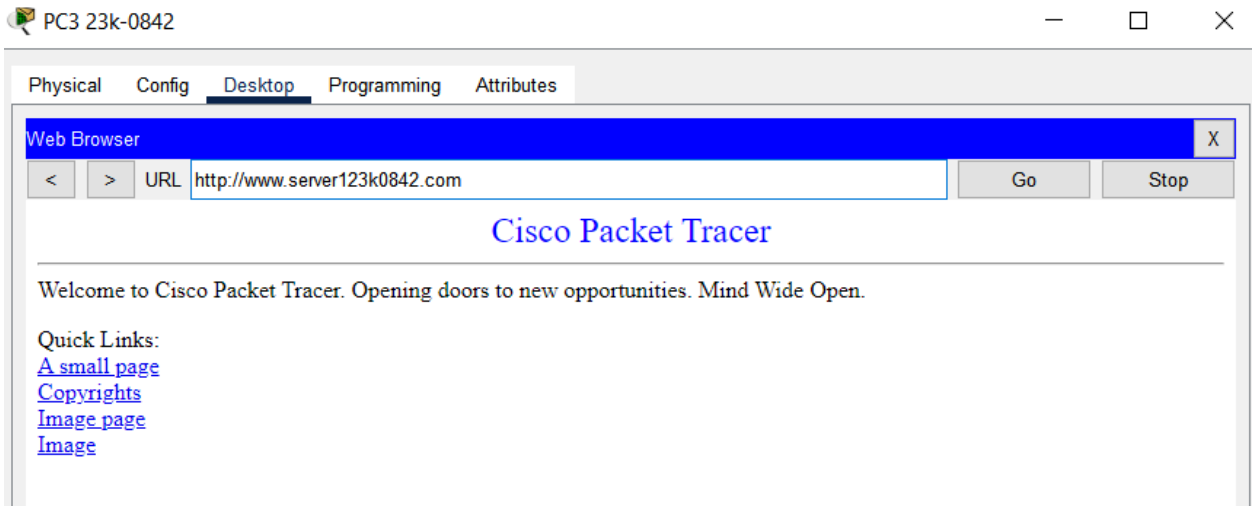

Laptop0 23k-0842
Physical
Config
Desktop
Programming
Attributes
IP Configuration
X
Interface
FastEthernet0
IP Configuration
DHCP
Static
IPv4 Address
192.168.1.12
Subnet Mask
255.255.255.0
Default Gateway
192.168.1.1
DNS Server
192.168.1.2
IPv6 Configuration
Automatic
Static
IPv6 Address
/
Link Local Address
FE80::20A:F3FF:FE22:811A
Default Gateway
DNS Server


Laptop0 23k-0842
Physical
Config
Desktop
Programming
Attributes
Web Browser
X
<
>
URL
http://www.server123k0842.com
Go
Stop
Cisco Packet Tracer
Welcome to Cisco Packet Tracer. Opening doors to new opportunities. Mind Wide Open.
Quick Links:
A small page
Copyrights
Image page
Image


PC2 23k-0842
Physical
Config
Desktop
Programming
Attributes
IP Configuration
X
Interface
FastEthernet0
IP Configuration
DHCP
Static
IPv4 Address
192.168.1.13
Subnet Mask
255.255.255.0
Default Gateway
192.168.1.1
DNS Server
192.168.1.2
IPv6 Configuration
Automatic
Static
IPv6 Address
/
Link Local Address
FE80::204:9AFF:FE24:83AC
Default Gateway
DNS Server


PC2 23k-0842
Physical
Config
Desktop
Programming
Attributes
Web Browser
X
<
>
URL
http://www.server123k0842.com
Go
Stop
Cisco Packet Tracer
Welcome to Cisco Packet Tracer. Opening doors to new opportunities. Mind Wide Open.
Quick Links:
A small page
Copyrights
Image page
Image


PC3 23k-0842
Physical
Config
Desktop
Programming
Attributes
IP Configuration
X
Interface
FastEthernet0
IP Configuration
DHCP
Static
IPv4 Address
192.168.2.10
Subnet Mask
255.255.255.0
Default Gateway
192.168.2.1
DNS Server
192.168.1.2
IPv6 Configuration
Automatic
Static
IPv6 Address
/
Link Local Address
FE80::20D:BDFF:FECE:151C
Default Gateway
DNS Server
802.1X


PC3 23k-0842
Physical
Config
Desktop
Programming
Attributes
Web Browser
X
<
>
URL
http://www.server123k0842.com
Go
Stop
Cisco Packet Tracer
Welcome to Cisco Packet Tracer. Opening doors to new opportunities. Mind Wide Open.
Quick Links:
A small page
Copyrights
Image page
Image

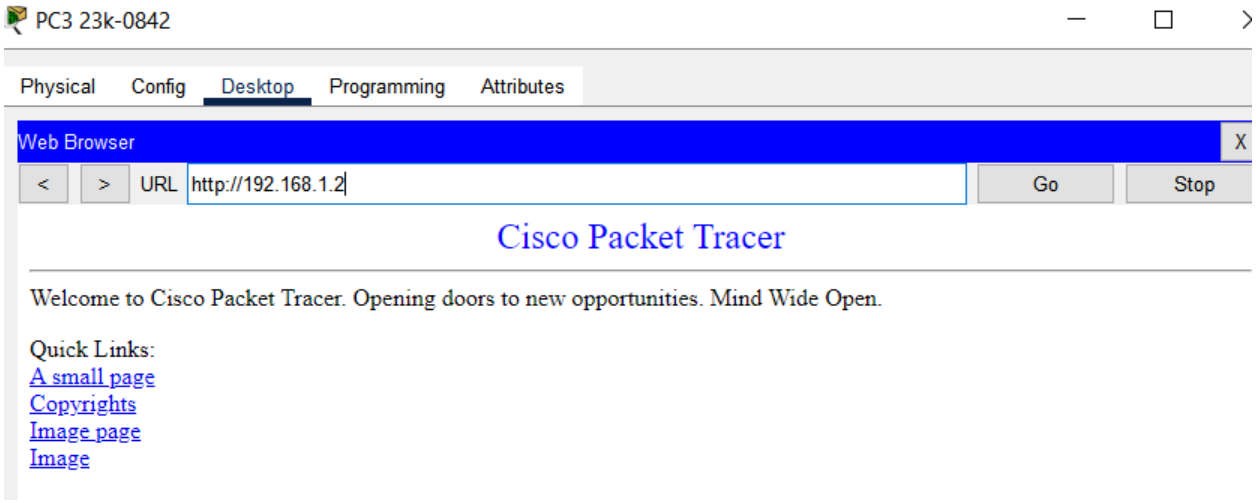

PC3 23k-0842
Physical
Config
Desktop
Programming
Attributes
Web Browser
X
<
>
URL
http://192.168.1.2
Go
Stop
Cisco Packet Tracer
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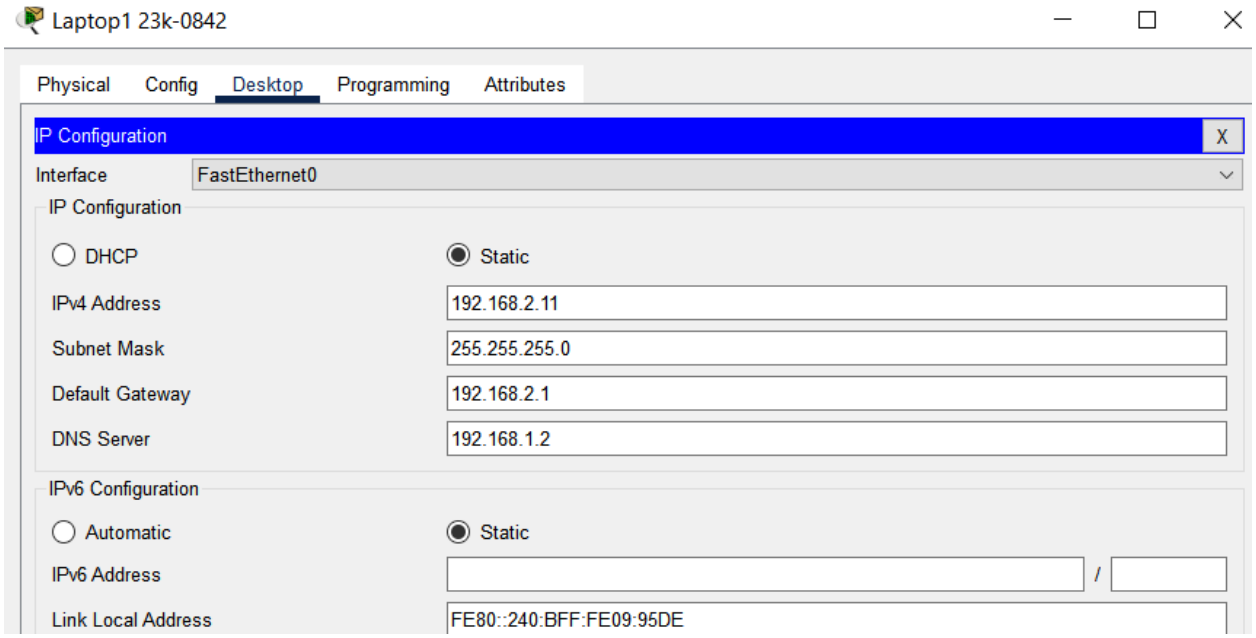
Image


Laptop1 23k-0842
Physical
Config
Desktop
Programming
Attributes
IP Configuration
X
Interface
FastEthernet0
IP Configuration
DHCP
Static
IPv4 Address
192.168.2.11
Subnet Mask
255.255.255.0
Default Gateway
192.168.2.1
DNS Server
192.168.1.2
IPv6 Configuration
Automatic
Static
IPv6 Address
/
Link Local Address
FE80::240:BFF:FE09:95DE

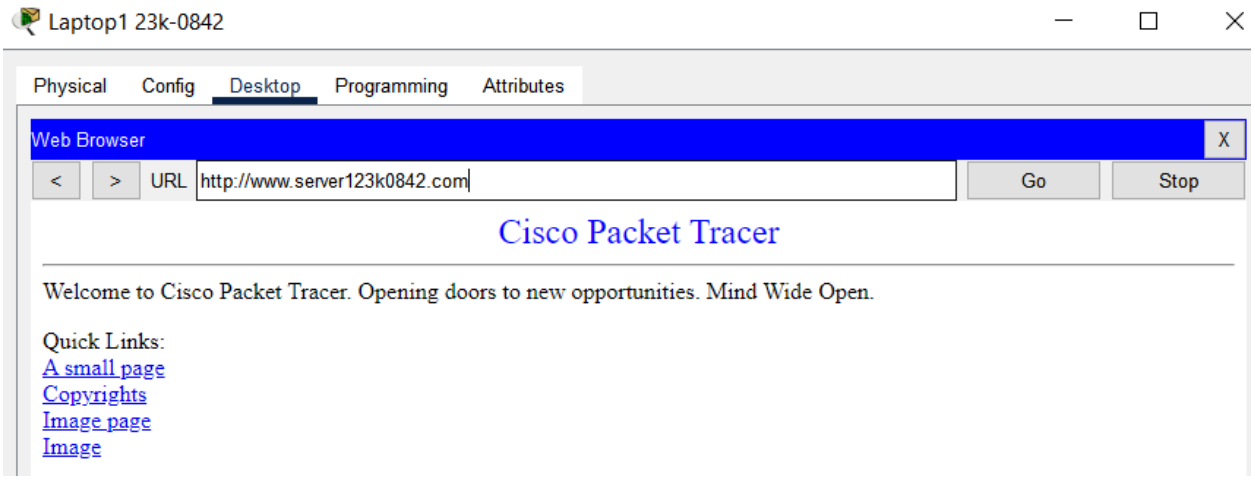

Laptop1 23k-0842
Physical
Config
Desktop
Programming
Attributes
Web Browser
X
<
>
URL
http://www.server123k0842.com
Go
Stop
Cisco Packet Tracer
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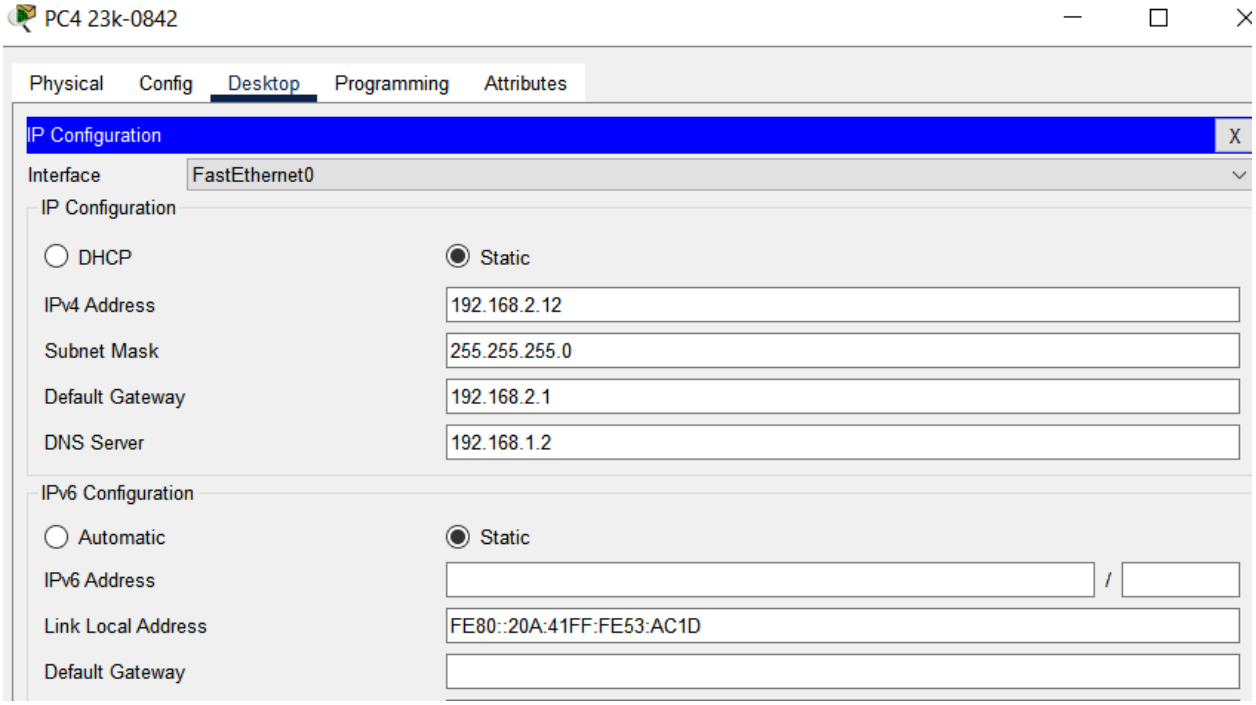
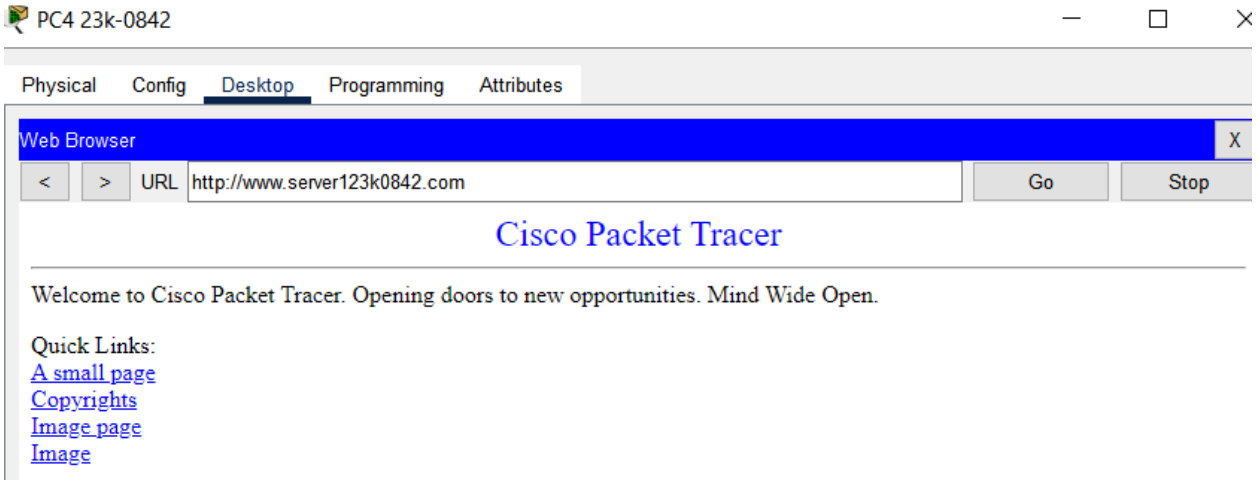
Image


PC4 23k-0842
Physical
Config
Desktop
Programming
Attributes
IP Configuration
X
Interface
FastEthernet0
IP Configuration
DHCP
Static
IPv4 Address
192.168.2.12
Subnet Mask
255.255.255.0
Default Gateway
192.168.2.1
DNS Server
192.168.1.2
IPv6 Configuration
Automatic
Static
IPv6 Address
/
Link Local Address
FE80::20A:41FF:FE53:AC1D
Default Gateway


PC4 23k-0842
Physical
Config
Desktop
Programming
Attributes
Web Browser
X
<
>
URL
http://www.server123k0842.com
Go
Stop
Cisco Packet Tracer
Welcome to Cisco Packet Tracer. Opening doors to new opportunities. Mind Wide Open.
Quick Links:
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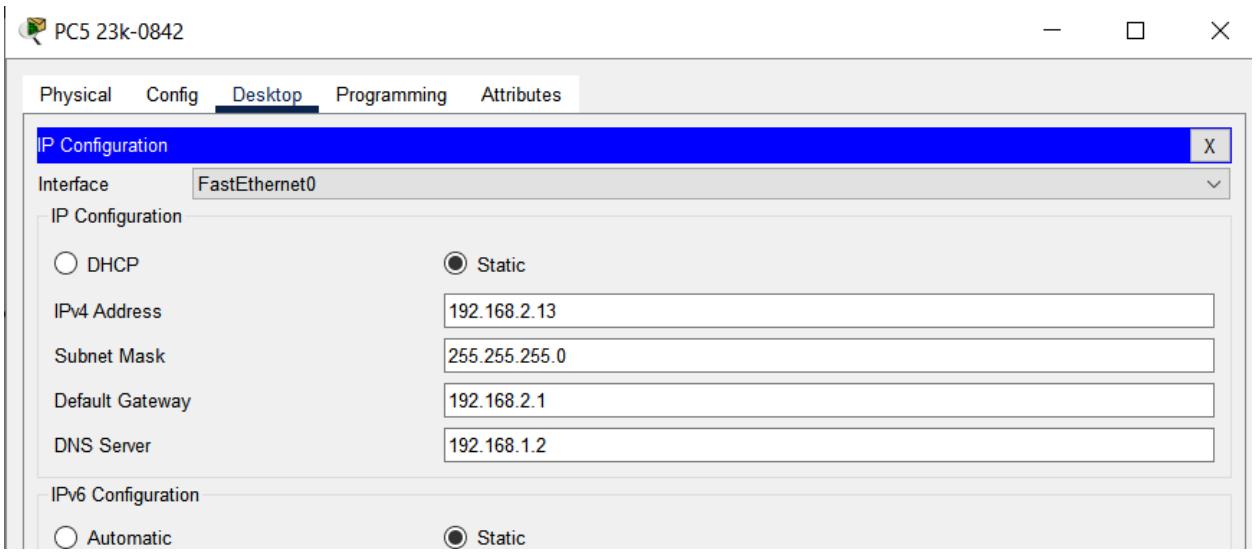
Copyrights
Image page
Image


PC5 23k-0842
Physical
Config
Desktop
Programming
Attributes
IP Configuration
X
Interface
FastEthernet0
IP Configuration
DHCP
Static
IPv4 Address
192.168.2.13
Subnet Mask
255.255.255.0
Default Gateway
192.168.2.1
DNS Server
192.168.1.2
IPv6 Configuration
Automatic
Static

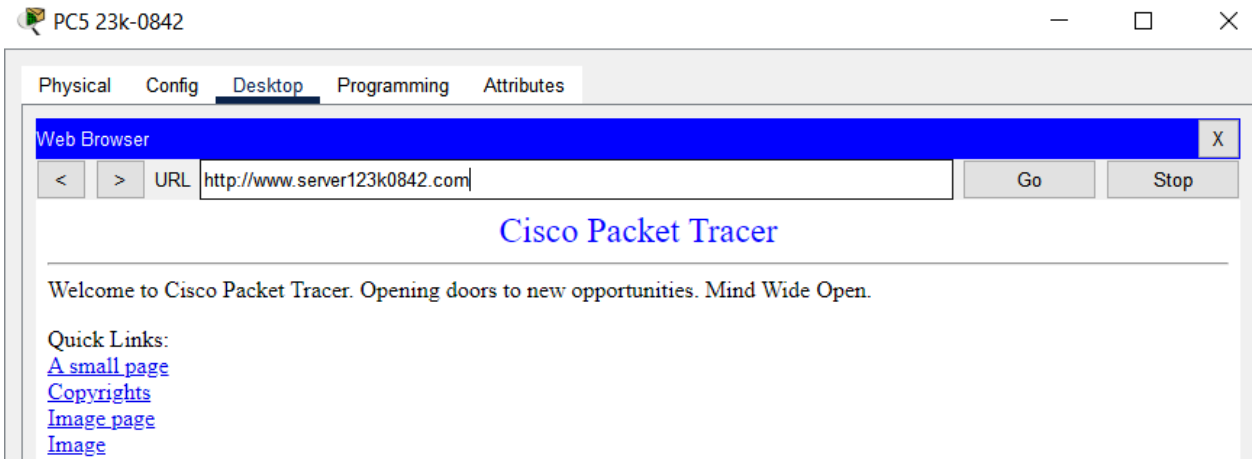

PC5 23k-0842
Physical
Config
Desktop
Programming
Attributes
Web Browser
X
<
>
URL
http://www.server123k0842.com
Go
Stop
Cisco Packet Tracer
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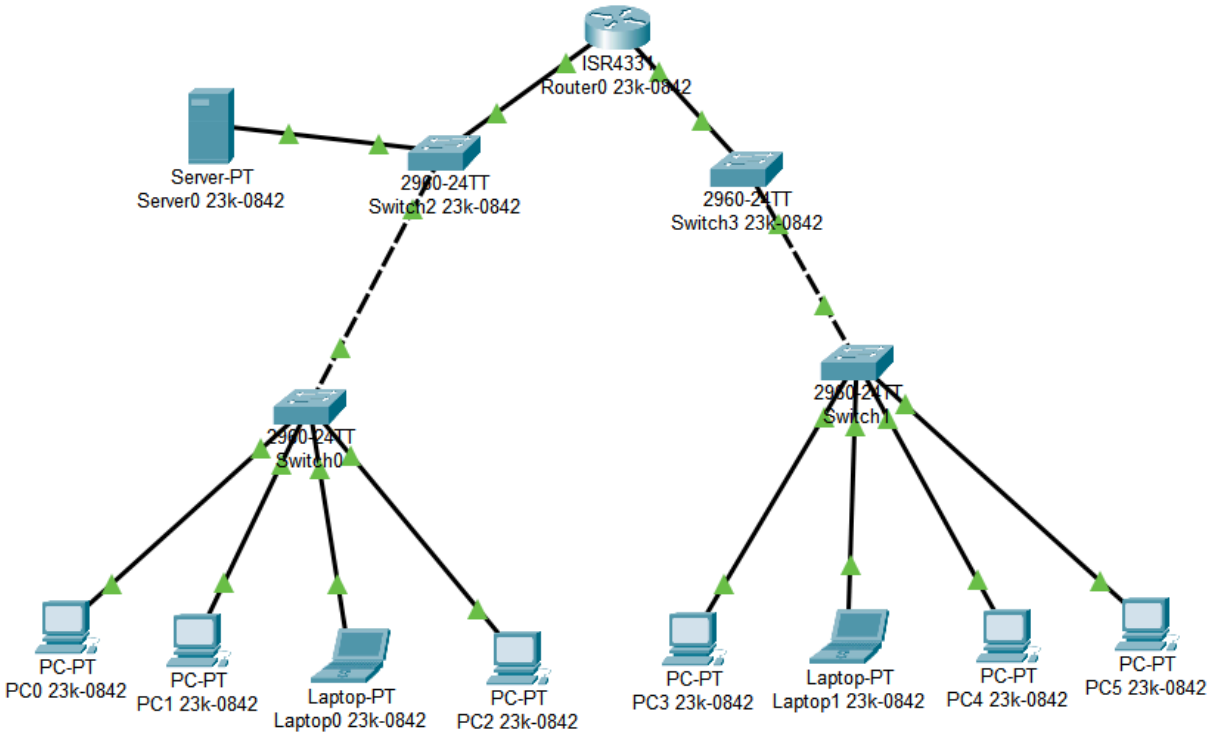
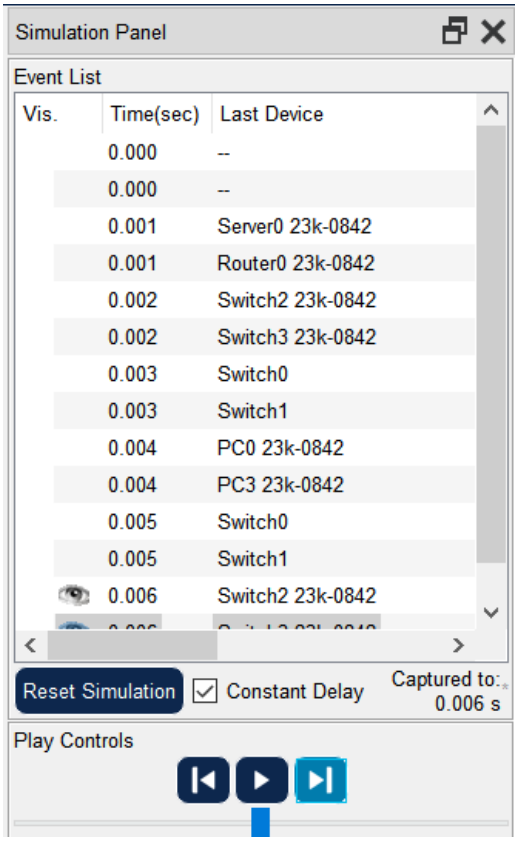
Image

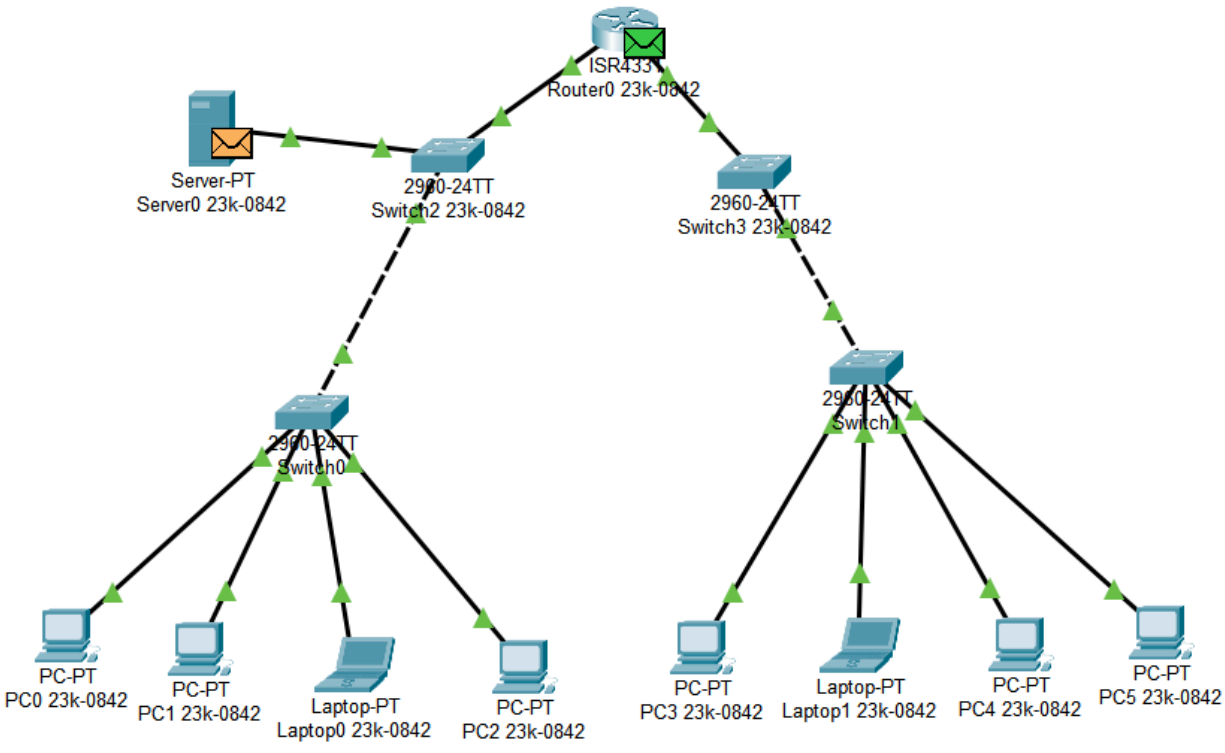
REAL TIME:

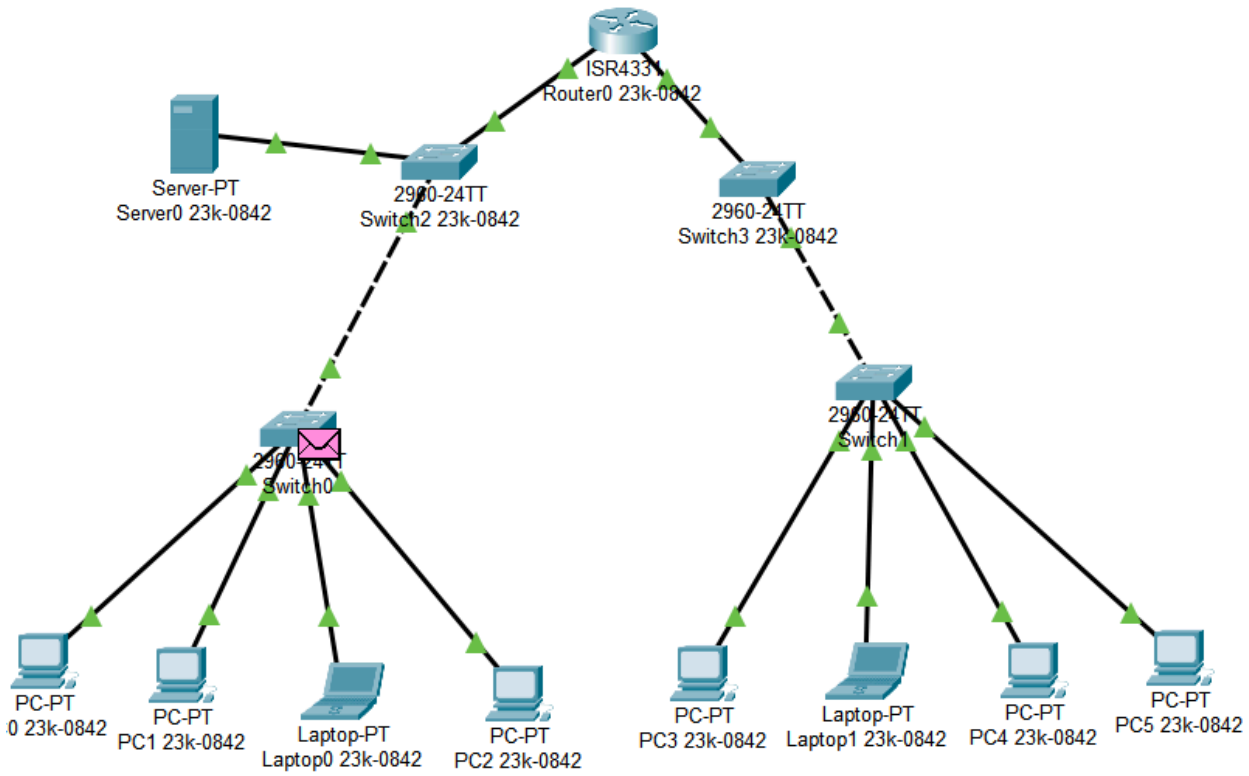

ISR4331
Router0 23k-0842
Server-PT
Server0 23k-0842
2960-24TT
Switch2 23k-0842
2960-24TT
Switch3 23k-0842
2960-24TT
Switch0
2960-24TT
Switch1
PC-PT
PC0 23k-0842
PC-PT
PC1 23k-0842
Laptop-PT
Laptop0 23k-0842
PC-PT
PC2 23k-0842
PC-PT
PC3 23k-0842
Laptop-PT
Laptop1 23k-0842
PC-PT
PC4 23k-0842
PC-PT
PC5 23k-0842

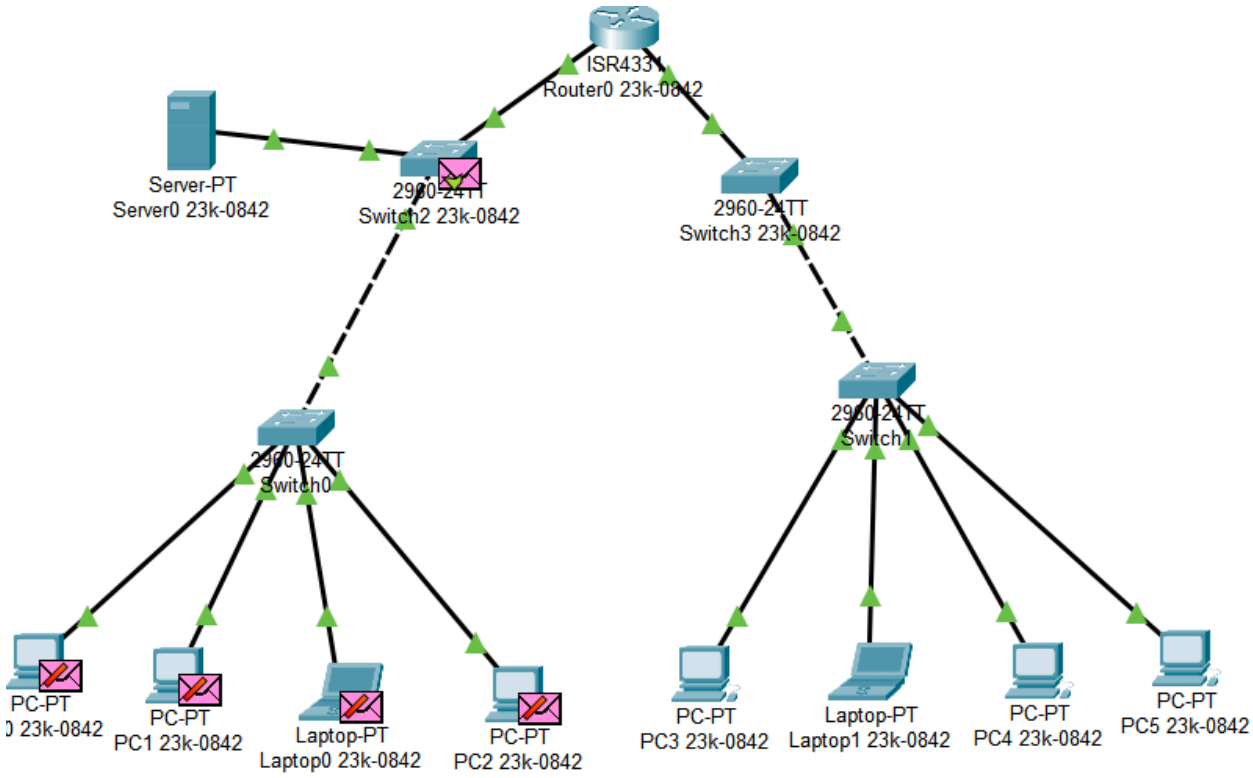

Simulation Panel
Event List
Vis. Time(sec) Last Device
0.000 --
0.000 --
0.001 Server0 23k-0842
0.001 Router0 23k-0842
0.002 Switch2 23k-0842
0.002 Switch3 23k-0842
0.003 Switch0
0.003 Switch1
0.004 PC0 23k-0842
0.004 PC3 23k-0842
0.005 Switch0
0.005 Switch1
0.006 Switch2 23k-0842
Reset Simulation
Constant Delay
Captured to: 0.006 s
Play Controls

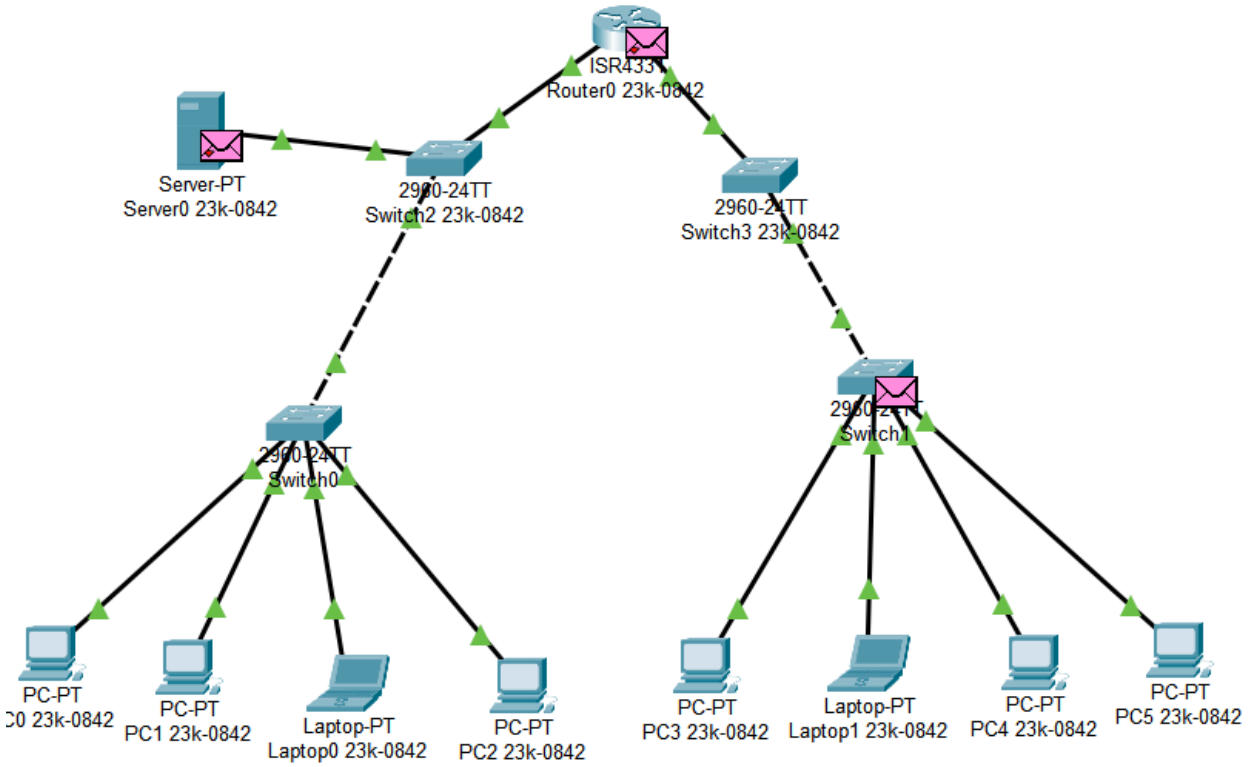
Event List

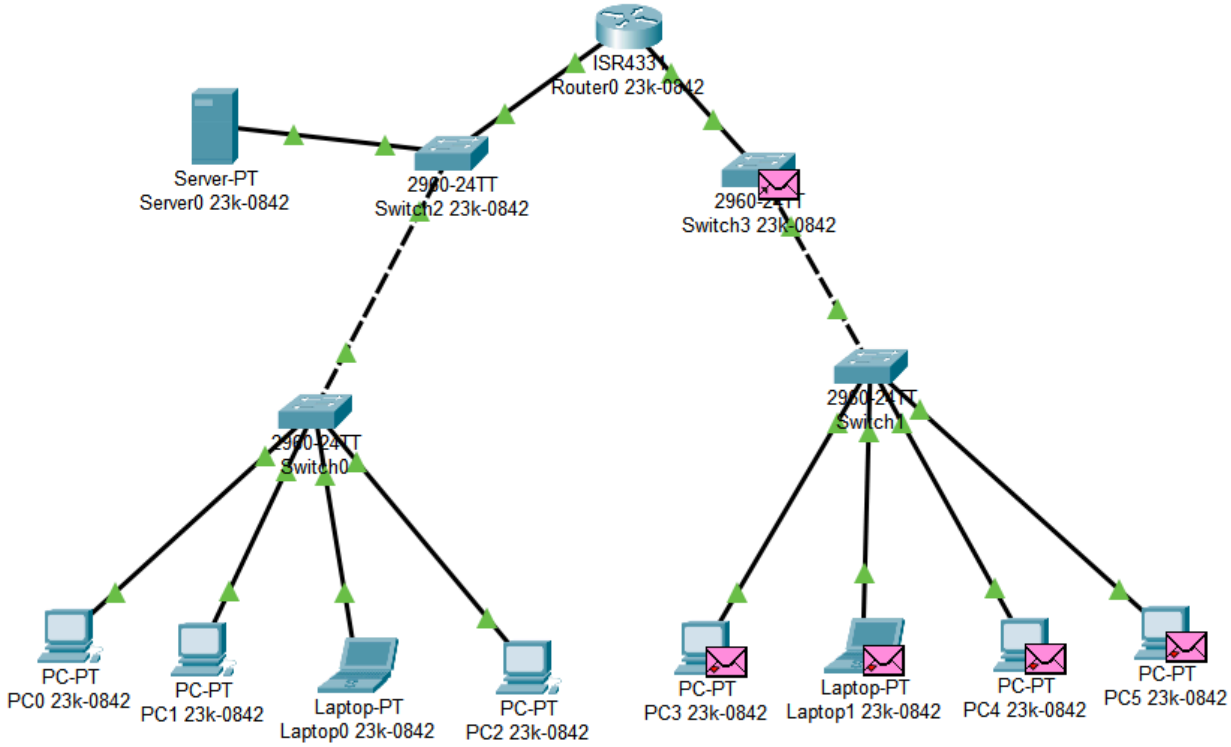
Vis.	Time(sec)	Last Device
	1.667	--
	1.668	Switch0
	1.668	Switch0
	1.668	Switch0
	1.668	Switch0
	1.668	Switch0
	1.669	Switch2 23k-0842
	1.669	Switch2 23k-0842
	1.669	--
	1.670	Switch1
	1.670	Switch1
	1.670	Switch1
	1.670	Switch1




ISR4331
Router0 23k-0842
Server-PT
Server0 23k-0842
2960-24TT
Switch2 23k-0842
2960-24TT
Switch3 23k-0842
2960-24TT
Switch0
2960-24TT
Switch1
PC-PT
0 23k-0842
PC-PT
PC1 23k-0842
Laptop-PT
Laptop0 23k-0842
PC-PT
PC2 23k-0842
PC-PT
PC3 23k-0842
Laptop-PT
Laptop1 23k-0842
PC-PT
PC4 23k-0842
PC-PT
PC5 23k-0842


ISR4331
Router0 23k-0842
Server-PT
Server0 23k-0842
2960-24TT
Switch2 23k-0842
2960-24TT
Switch3 23k-0842
2960-24TT
Switch0
2960-24TT
Switch1
PC-PT
0 23k-0842
PC-PT
PC1 23k-0842
Laptop-PT
Laptop0 23k-0842
PC-PT
PC2 23k-0842
PC-PT
PC3 23k-0842
Laptop-PT
Laptop1 23k-0842
PC-PT
PC4 23k-0842
PC-PT
PC5 23k-0842


ISR4331
Router0 23k-0842
Server-PT
Server0 23k-0842
2960-24TT
Switch2 23k-0842
2960-24TT
Switch3 23k-0842
2960-24TT
Switch0
2960-24TT
Switch1
PC-PT
C0 23k-0842
PC-PT
PC1 23k-0842
Laptop-PT
Laptop0 23k-0842
PC-PT
PC2 23k-0842
PC-PT
PC3 23k-0842
Laptop-PT
Laptop1 23k-0842
PC-PT
PC4 23k-0842
PC-PT
PC5 23k-0842


ISR4331
Router0 23k-0842
Server-PT
Server0 23k-0842
2960-24TT
Switch2 23k-0842
2960-24TT
Switch3 23k-0842
2960-24TT
Switch0
2960-24TT
Switch1
PC-PT
PC0 23k-0842
PC-PT
PC1 23k-0842
Laptop-PT
Laptop0 23k-0842
PC-PT
PC2 23k-0842
PC-PT
PC3 23k-0842
Laptop-PT
Laptop1 23k-0842
PC-PT
PC4 23k-0842
PC-PT
PC5 23k-0842

3. Which HTTP header sets a "best before" date for cached items?
Expires header, It specifies the date/time after which the cached response is considered stale.

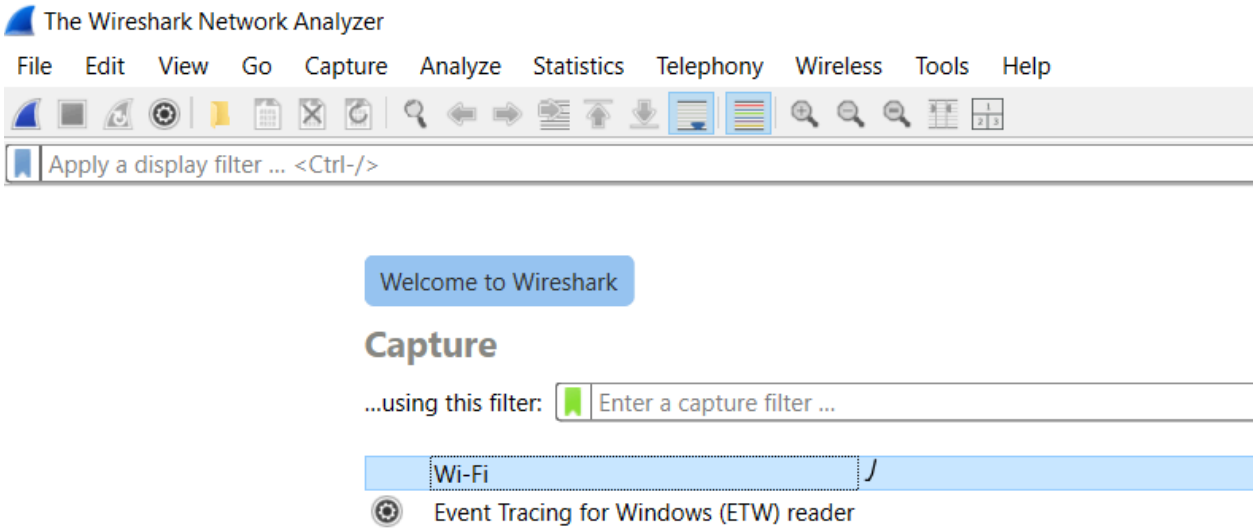
4. HTTP PUT and POST methods are different or not? Explain the reason in one line.
Yes they are different. POST creates a new resource (non-idempotent), while PUT updates a resource at a specific URI (idempotent).

Wireshark Lab Exercise

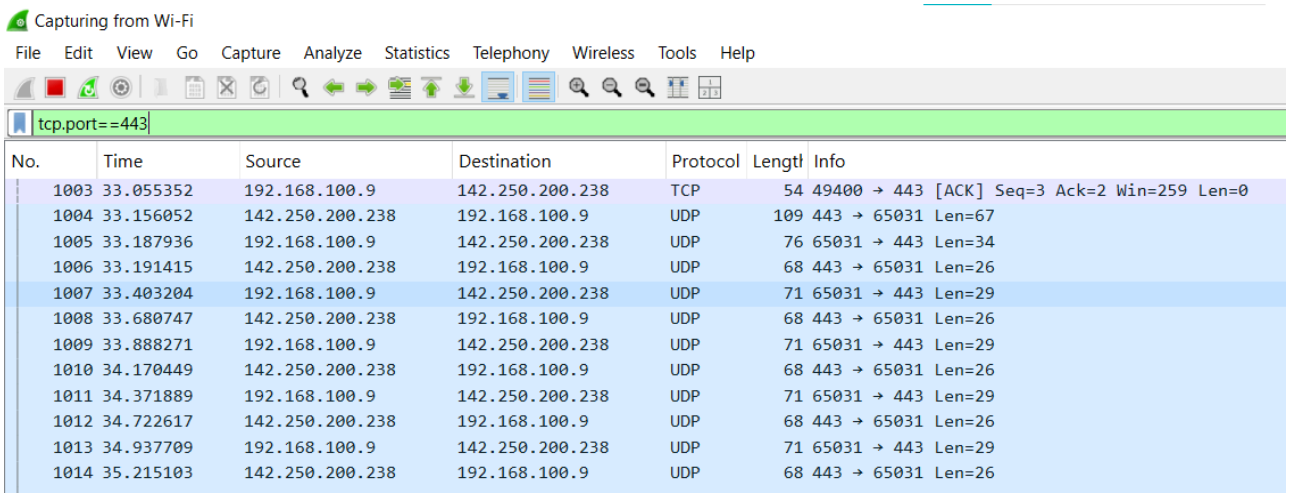
1. Follow the **Wireshark HTTP Analysis** steps for HTTPS. Take a Snapshot of each Step, and Explain in a one-line answer, what do you understand here?
2. Apply the following filters. Attach a snapshot of each step.
   1. Tcp
   2. Udp
   3. IP address equal to

Step 1: Capture

Captured using Wi-Fi

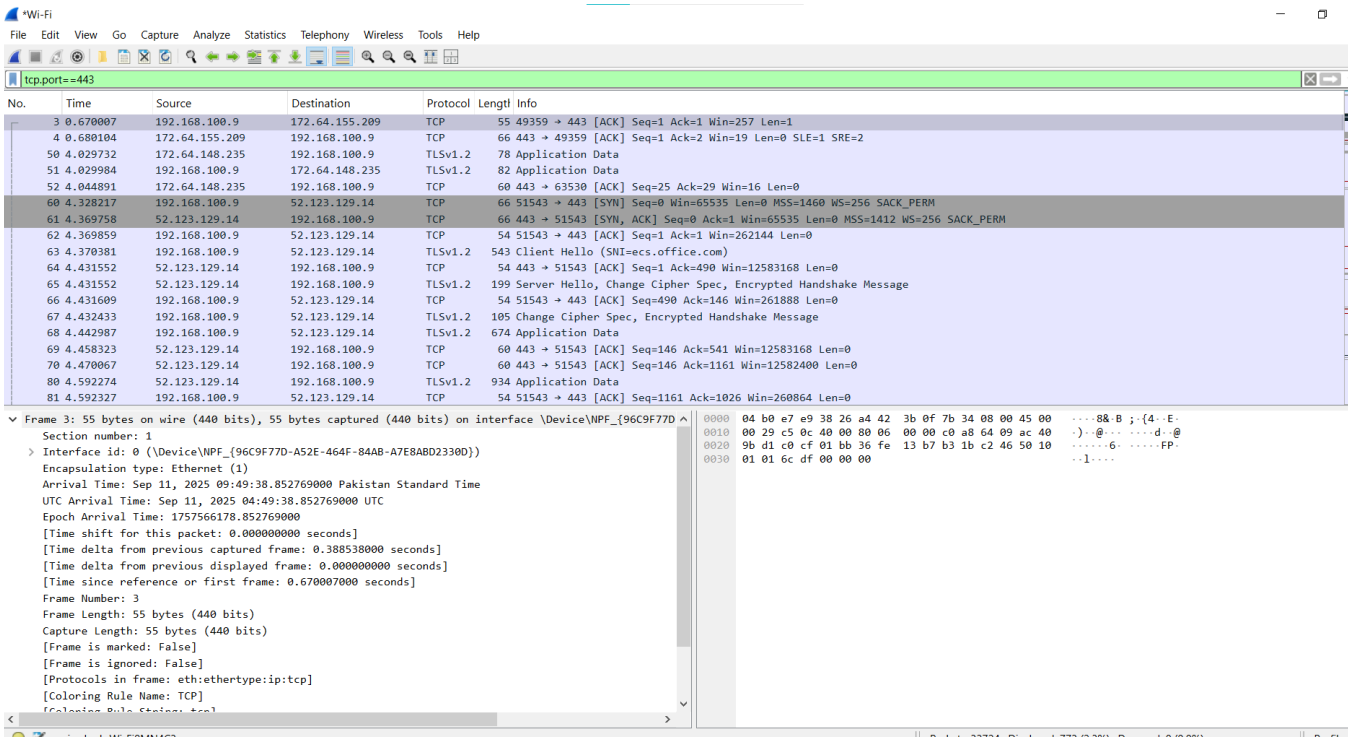


Step 2: For https we can apply filter tcp.port==443



No.	Time	Source	Destination	Protocol	Length	Info
1003	33.055352	192.168.100.9	142.250.200.238	TCP	54	49400 → 443 [ACK] Seq=3 Ack=2 Win=259 Len=0
1004	33.156052	142.250.200.238	192.168.100.9	UDP	109	443 → 65031 Len=67
1005	33.187936	192.168.100.9	142.250.200.238	UDP	76	65031 → 443 Len=34
1006	33.191415	142.250.200.238	192.168.100.9	UDP	68	443 → 65031 Len=26
1007	33.403204	192.168.100.9	142.250.200.238	UDP	71	65031 → 443 Len=29
1008	33.680747	142.250.200.238	192.168.100.9	UDP	68	443 → 65031 Len=26
1009	33.888271	192.168.100.9	142.250.200.238	UDP	71	65031 → 443 Len=29
1010	34.170449	142.250.200.238	192.168.100.9	UDP	68	443 → 65031 Len=26
1011	34.371889	192.168.100.9	142.250.200.238	UDP	71	65031 → 443 Len=29
1012	34.722617	142.250.200.238	192.168.100.9	UDP	68	443 → 65031 Len=26
1013	34.937709	192.168.100.9	142.250.200.238	UDP	71	65031 → 443 Len=29
1014	35.215103	142.250.200.238	192.168.100.9	UDP	68	443 → 65031 Len=26

This filter shows only encrypted HTTPS packets (port 443).

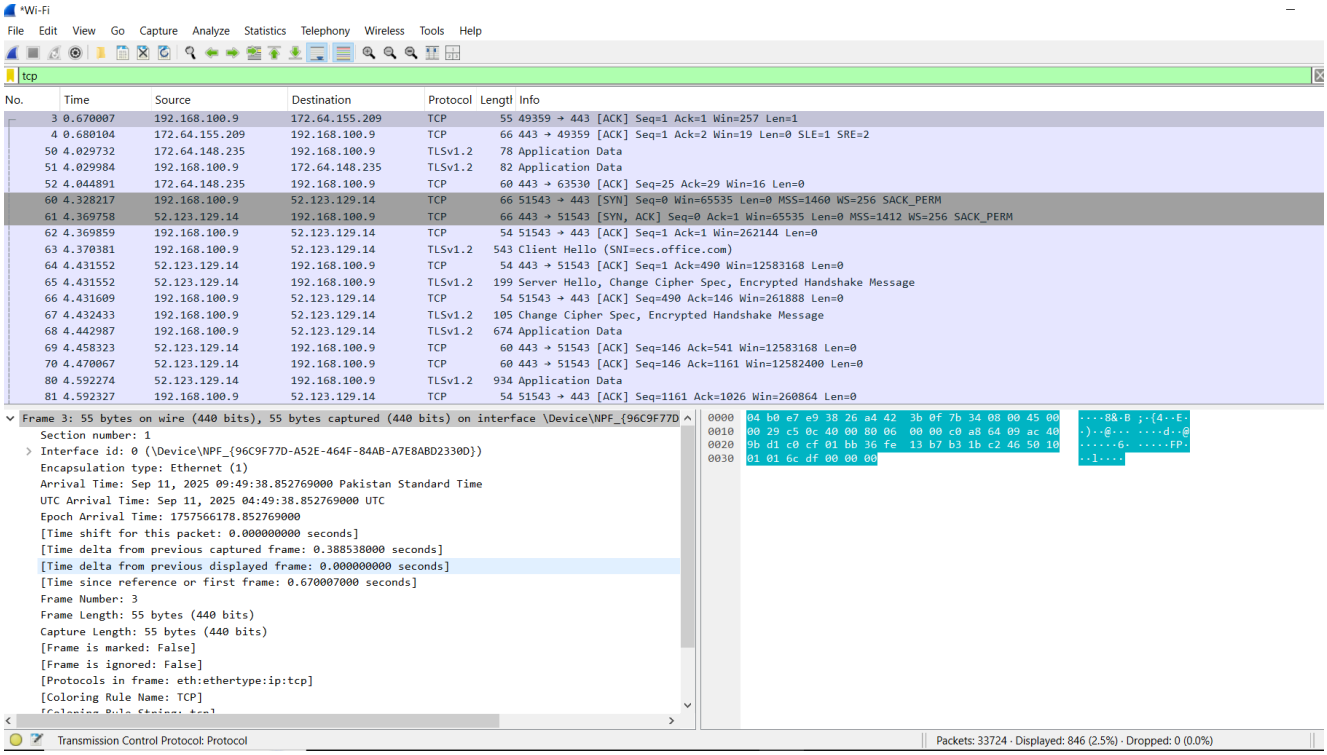


No.	Time	Source	Destination	Protocol	Length	Info
3	0.670007	192.168.100.9	172.64.155.209	TCP	55	49359 → 443 [ACK] Seq=1 Ack=1 Win=257 Len=1
4	0.680104	172.64.155.209	192.168.100.9	TCP	66	443 → 49359 [ACK] Seq=1 Ack=2 Win=19 Len=0 SLE=1 SRE=2
50	4.029732	172.64.148.235	192.168.100.9	TLSv1.2	78	Application Data
51	4.029984	192.168.100.9	172.64.148.235	TLSv1.2	82	Application Data
52	4.044891	172.64.148.235	192.168.100.9	TCP	60	443 → 63530 [ACK] Seq=25 Ack=29 Win=16 Len=0
60	4.328217	192.168.100.9	52.123.129.14	TCP	66	51543 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM
61	4.369758	52.123.129.14	192.168.100.9	TCP	66	443 → 51543 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1412 WS=256 SACK_PERM
62	4.369859	192.168.100.9	52.123.129.14	TCP	54	51543 → 443 [ACK] Seq=1 Ack=1 Win=262144 Len=0
63	4.370381	192.168.100.9	52.123.129.14	TLSv1.2	543	Client Hello (SNI=ecs.office.com)
64	4.431552	52.123.129.14	192.168.100.9	TCP	54	443 → 51543 [ACK] Seq=1 Ack=490 Win=12583168 Len=0
65	4.431552	52.123.129.14	192.168.100.9	TLSv1.2	199	Server Hello, Change Cipher Spec, Encrypted Handshake Message
66	4.431609	192.168.100.9	52.123.129.14	TCP	54	51543 → 443 [ACK] Seq=490 Ack=146 Win=261888 Len=0
67	4.432433	192.168.100.9	52.123.129.14	TLSv1.2	105	Change Cipher Spec, Encrypted Handshake Message
68	4.442987	192.168.100.9	52.123.129.14	TLSv1.2	674	Application Data
69	4.458323	52.123.129.14	192.168.100.9	TCP	60	443 → 51543 [ACK] Seq=146 Ack=541 Win=12583168 Len=0
70	4.470067	52.123.129.14	192.168.100.9	TCP	60	443 → 51543 [ACK] Seq=146 Ack=1161 Win=12582400 Len=0
80	4.592274	52.123.129.14	192.168.100.9	TLSv1.2	934	Application Data
81	4.592327	192.168.100.9	52.123.129.14	TCP	54	51543 → 443 [ACK] Seq=1161 Ack=1026 Win=260864 Len=0

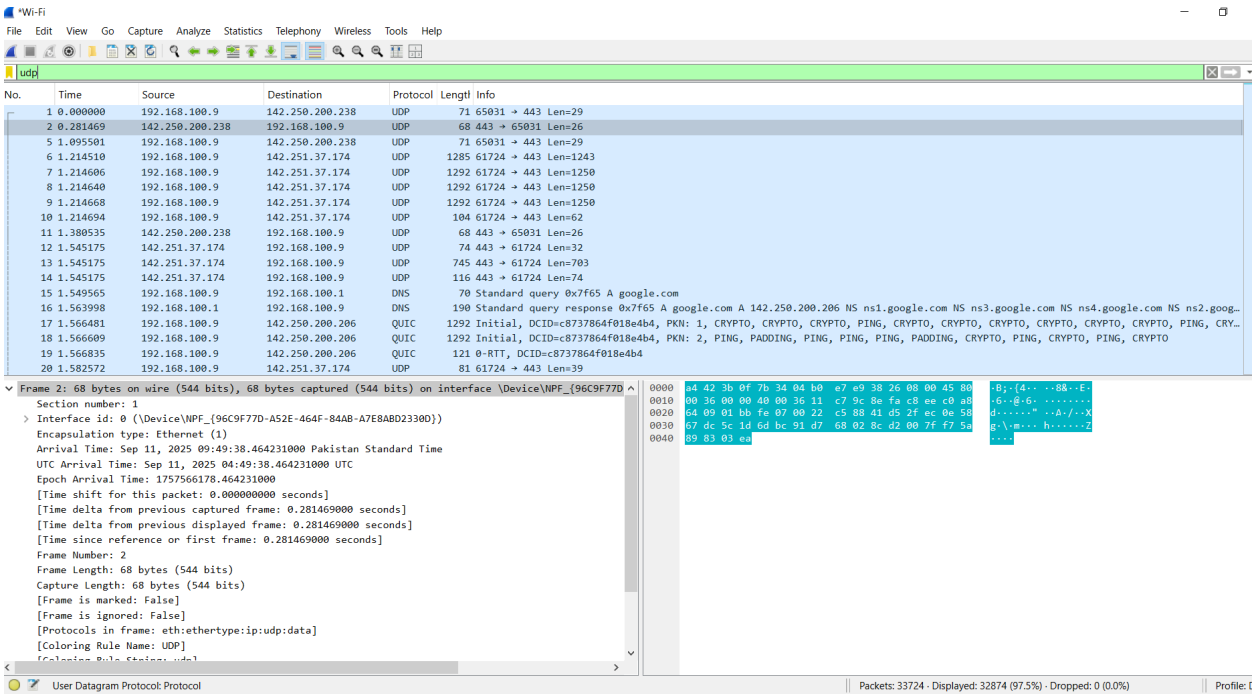
```
Frame 3: 55 bytes on wire (440 bits), 55 bytes captured (440 bits) on interface \Device\NPF_{96C9F77D
  Section number: 1
> Interface id: 0 (\Device\NPF_{96C9F77D-A52E-464F-84AB-A7E8ABD2330D})
  Encapsulation type: Ethernet (1)
  Arrival Time: Sep 11, 2025 09:49:38.852769000 Pakistan Standard Time
  UTC Arrival Time: Sep 11, 2025 04:49:38.852769000 UTC
  Epoch Arrival Time: 1757566178.852769000
  [Time shift for this packet: 0.000000000 seconds]
  [Time delta from previous captured frame: 0.388538000 seconds]
  [Time delta from previous displayed frame: 0.000000000 seconds]
  [Time since reference or first frame: 0.670007000 seconds]
  Frame Number: 3
  Frame Length: 55 bytes (440 bits)
  Capture Length: 55 bytes (440 bits)
  [Frame is marked: False]
  [Frame is ignored: False]
  [Protocols in frame: eth:ethertype:ip:tcp]
  [Coloring Rule Name: TCP]
```

```
0000  04 b0 e7 e9 38 26 a4 42  3b 0f 7b 34 08 00 45 00   ····8&·B ;·{4··E·
0010  00 29 c5 0c 40 00 80 06  00 00 c0 a8 64 09 ac 40   ·)··@··· ····d··@
0020  9b d1 c0 cf 01 bb 36 fe  13 b7 b3 1b c2 46 50 10   ·····6· ·····FP·
0030  01 01 6c df 00 00 00                               ··l····
```

Applying tcp filter: This shows all TCP packets regardless of port.



Applying udp filter: This shows all UDP packets regardless of port.



Filtering out by my IP address: Using ipconfig command to find my device's IP address

```
C:\Users\Kinza>ipconfig

Windows IP Configuration


Ethernet adapter Ethernet:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Ethernet adapter VirtualBox Host-Only Network:

   Connection-specific DNS Suffix  . :
   Link-local IPv6 Address . . . . . : fe80::c7fc:481:9048:7539%18
   IPv4 Address. . . . . . . . . . . : 192.168.56.1
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . :

Wireless LAN adapter Local Area Connection* 11:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 12:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Wireless LAN adapter Wi-Fi:

   Connection-specific DNS Suffix  . :
   Link-local IPv6 Address . . . . . : fe80::7bee:8fce:3aea:afbd%14
   IPv4 Address. . . . . . . . . . . : 192.168.100.9
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
```

ip.addr == 192.168.100.9