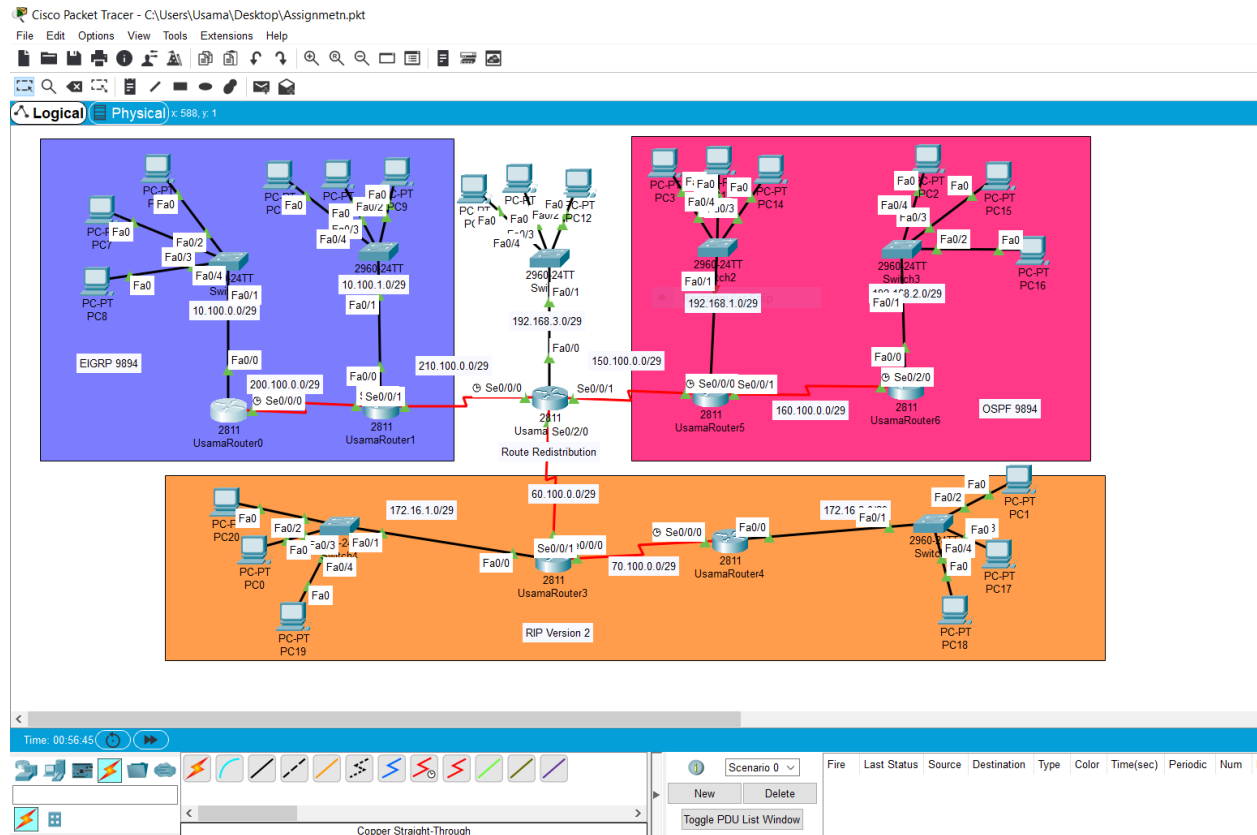


IIA LAB ASSIGNMENT 2

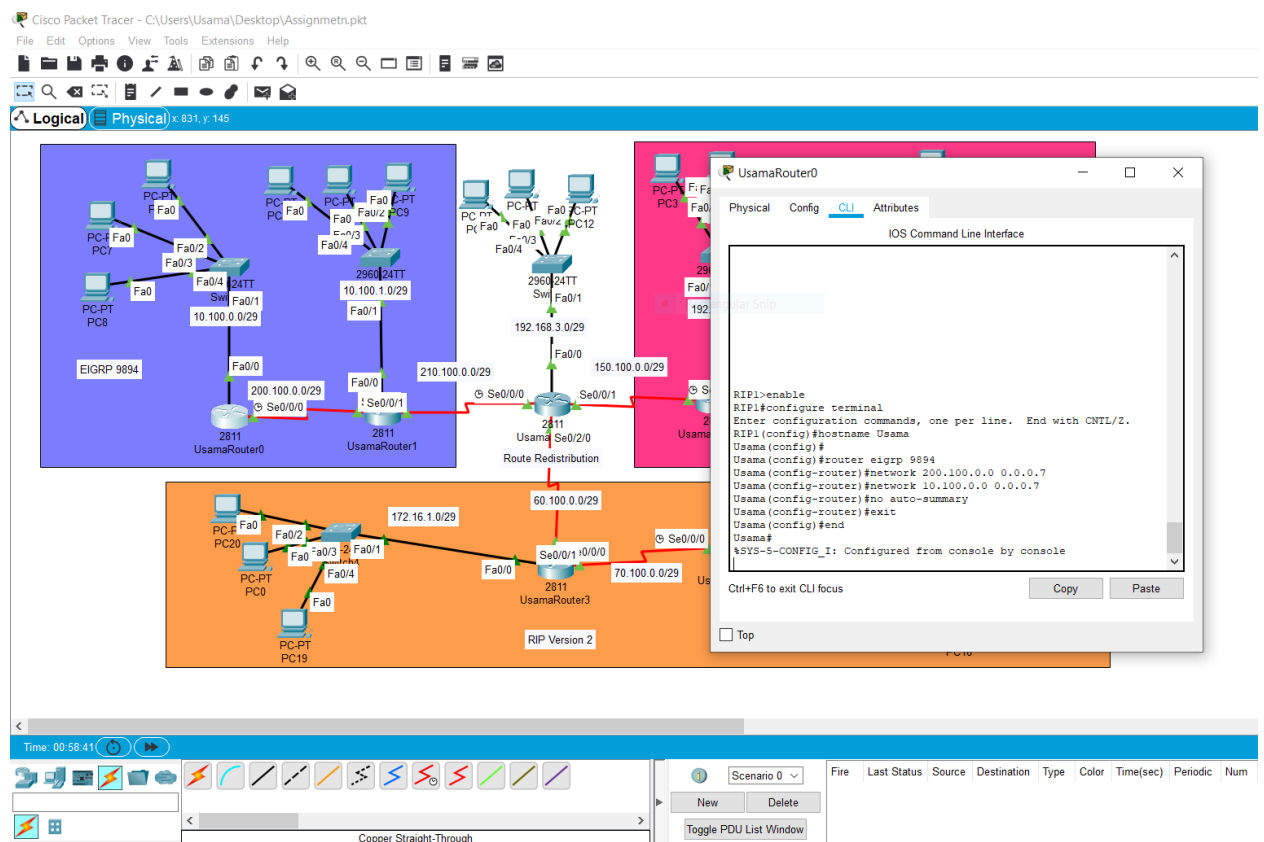
Usama Rehman

9894

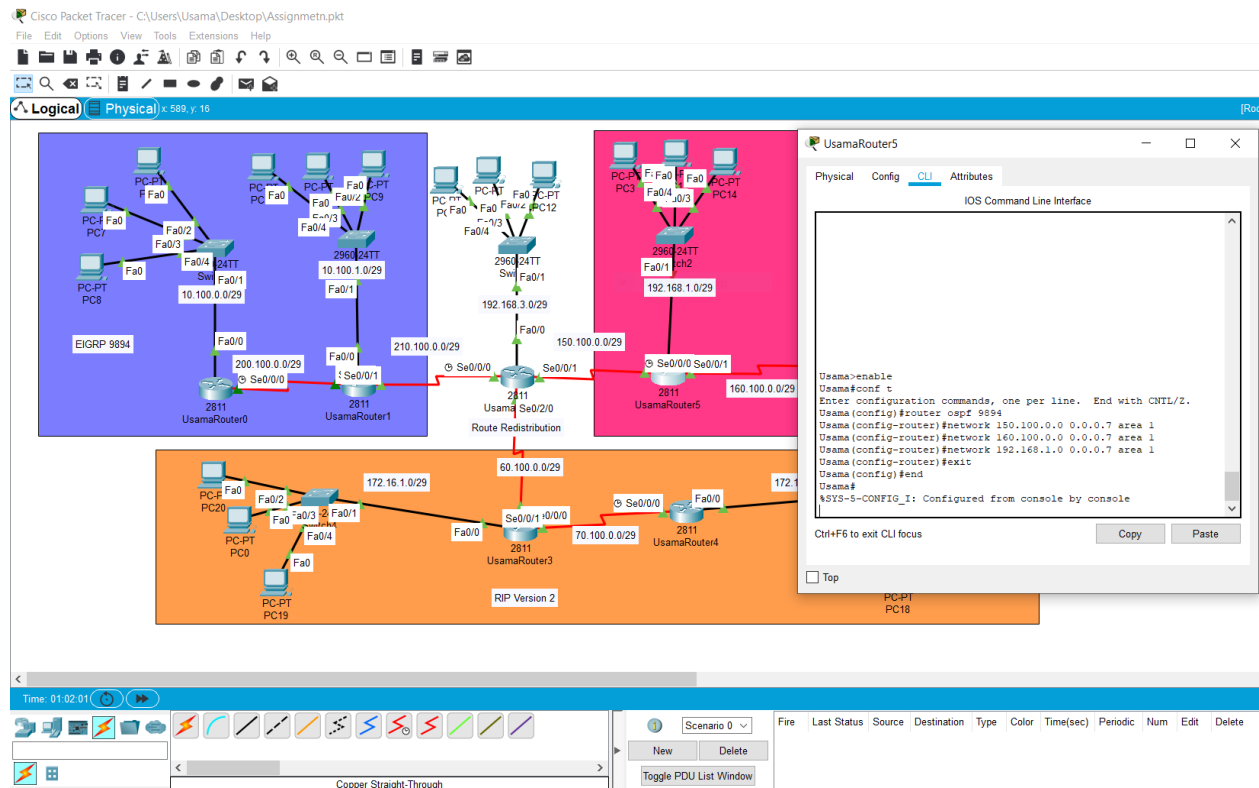
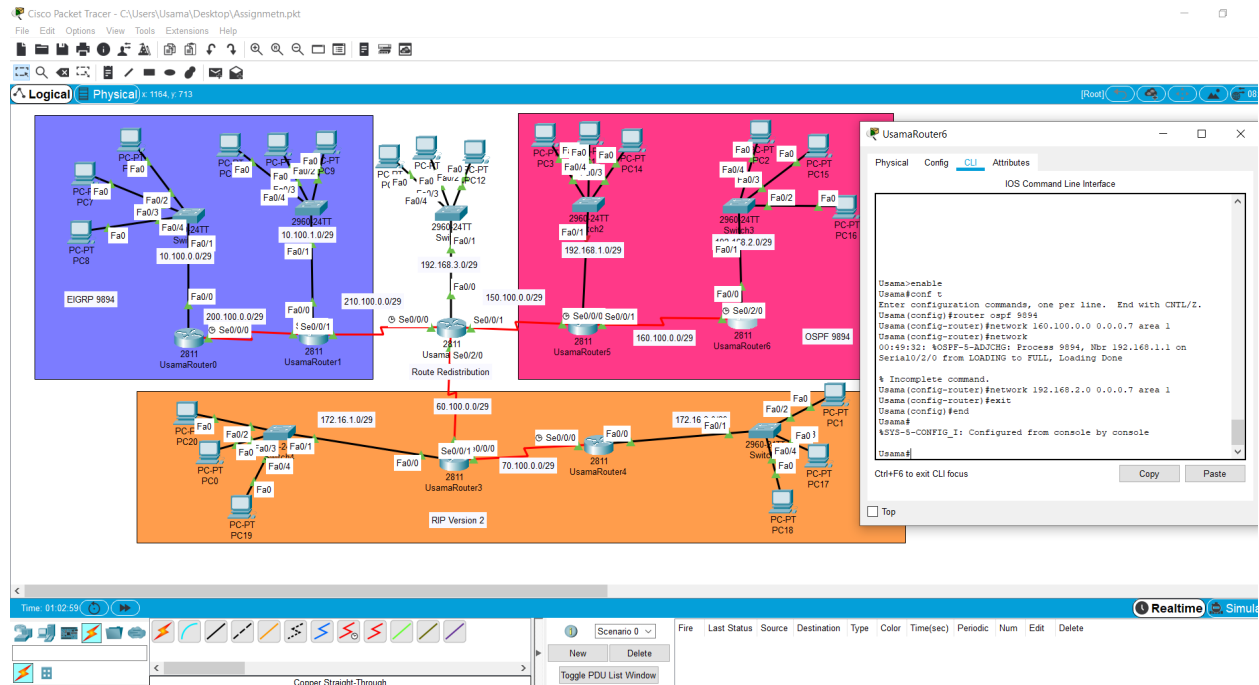
Network Topology :-



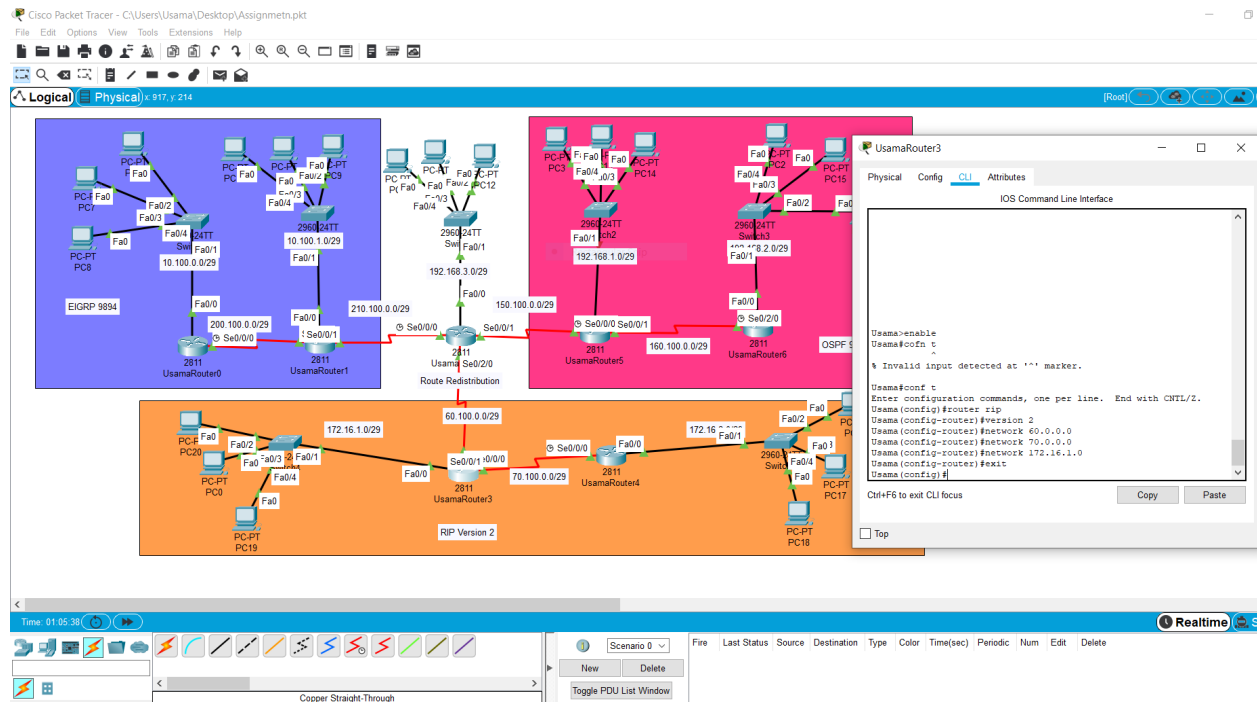
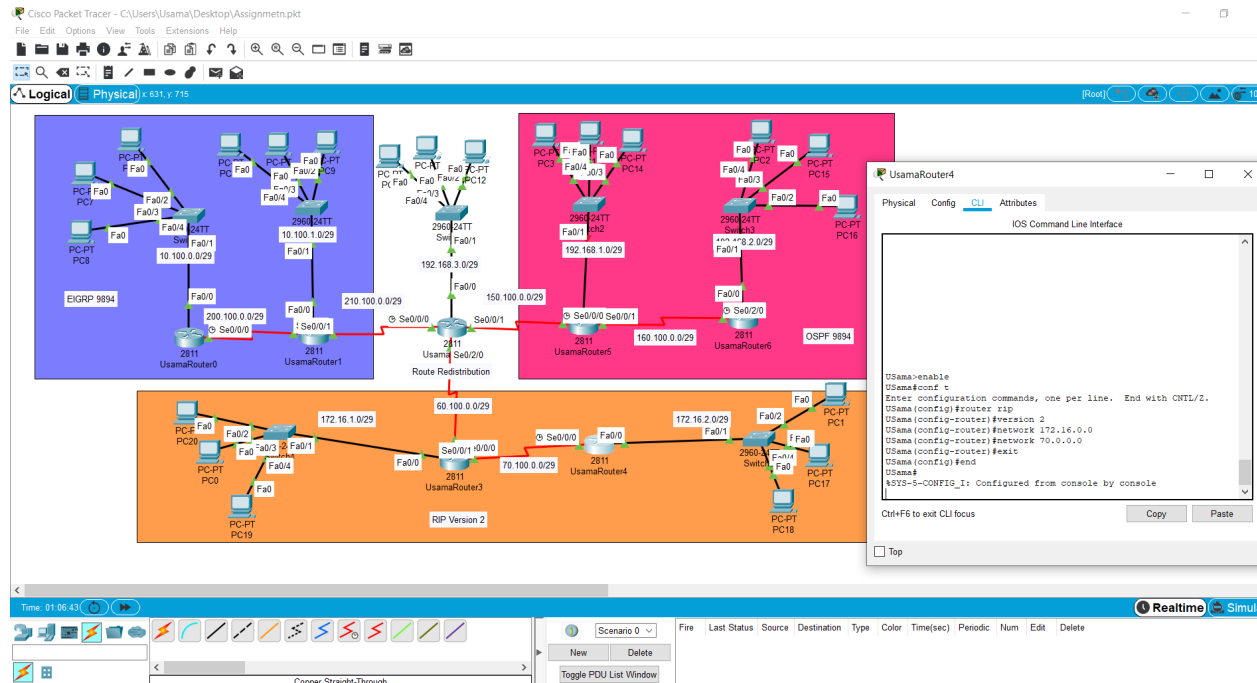
EIGRP Configuration:-

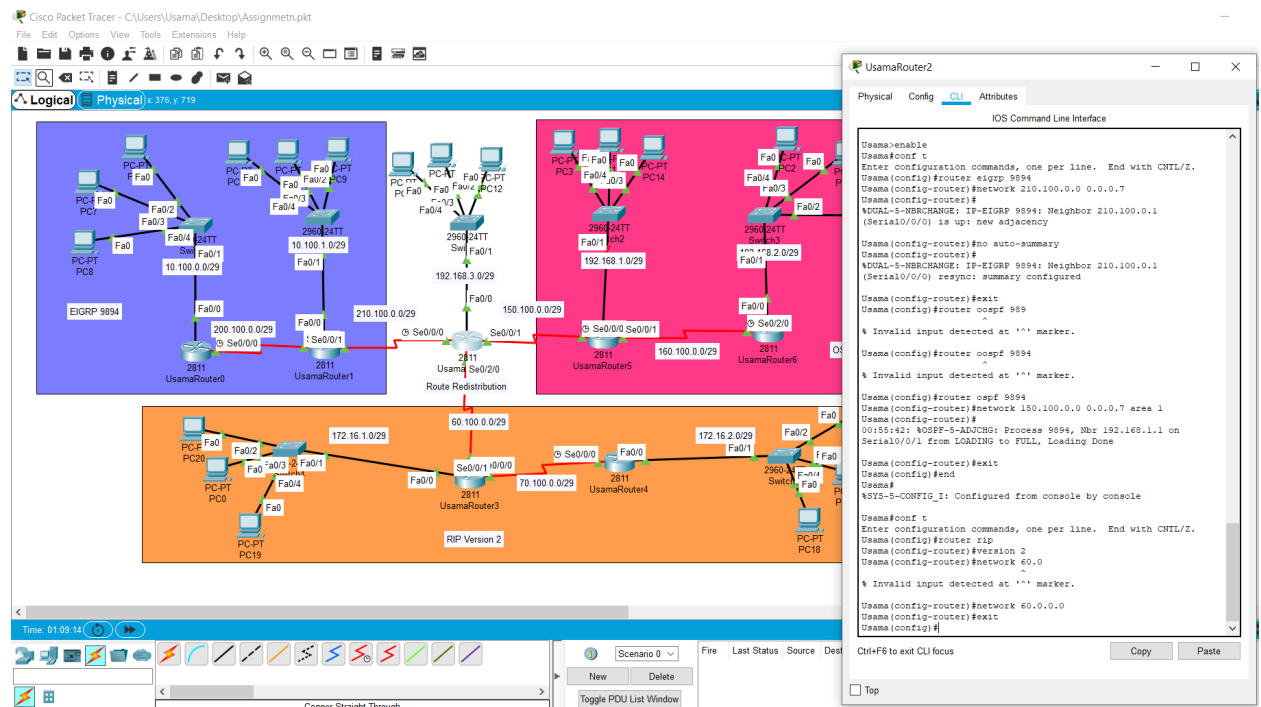


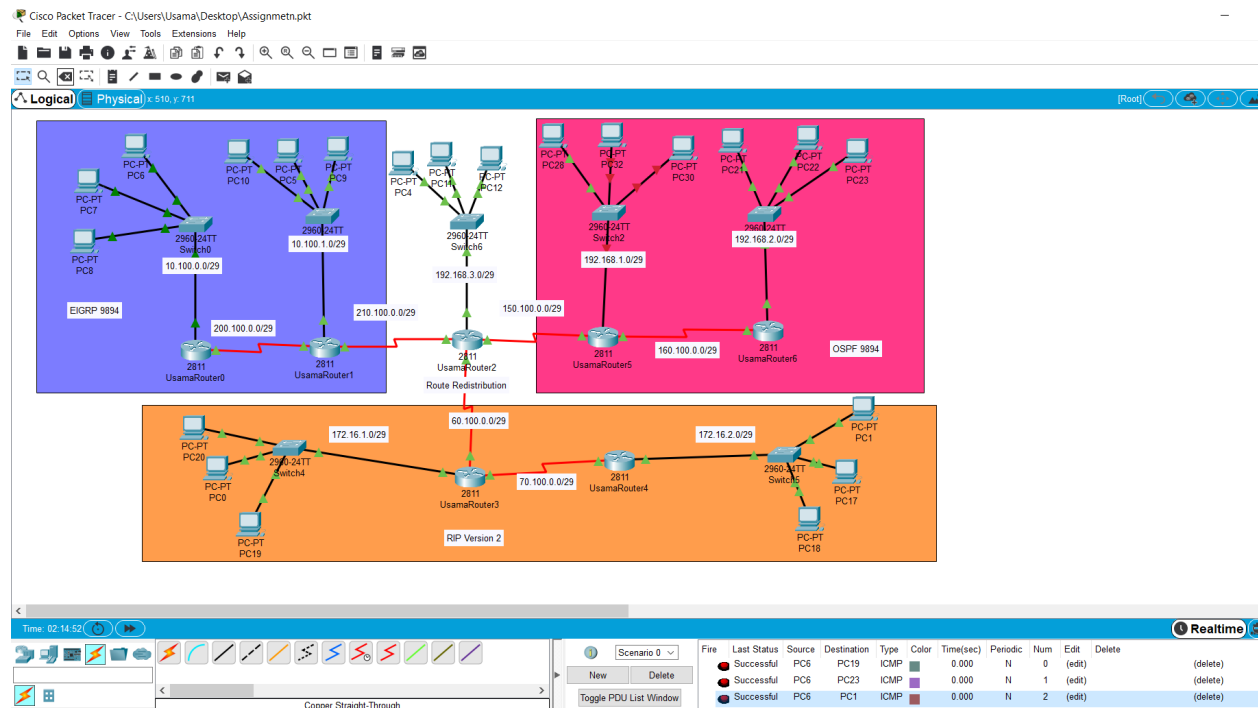
OSPF Configuration :-



RIP V2 Configuration :-







NAT ON EIGRP ROUTER :-

PC6

Physical

Config

Desktop

Programming

Attributes

IP Configuration

X

Interface

FastEthernet0

IP Configuration

☐ DHCP

☒ Static

IPv4 Address

10.100.0.2

Subnet Mask

255.255.255.248

Default Gateway

10.100.0.1

DNS Server

0.0.0.0

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

/

Link Local Address

FE80::230:F2FF:FE48:A2D9

Default Gateway

DNS Server

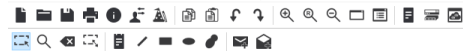
802.1X

☐ Use 802.1X Security

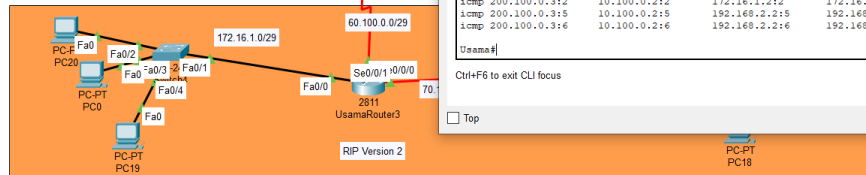
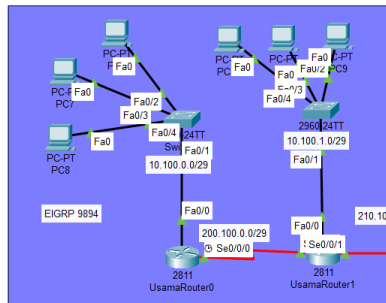
Authentication

MD5

☐ Top



Logical Physical 721.7.1



UsamaRouter0

Physical Config Attributes

IOS Command Line Interface

```
Usama(config)#interface serial 0/0/0
Usama(config-if)#ip nat outside
Usama(config-if)#exit
Usama(config)#interface fa 0/0
Usama(config-if)#ip nat inside
Usama(config-if)#exit
Usama(config)#exit
Usama#
%SYS-5-CONFIG_I: Configured from console by console
Usama#
Usama#
Usama#show ip nat translations
Pro Inside global Inside local Outside local Outside global
icmp 200.100.0.3:1 10.100.0.2:1 172.16.1.2:1 172.16.1.2:1

Usama#show ip nat translations
Pro Inside global Inside local Outside local Outside global
icmp 200.100.0.3:2 10.100.0.2:2 172.16.1.2:2 172.16.1.2:2
icmp 200.100.0.3:5 10.100.0.2:5 192.168.2.2:5 192.168.2.2:5
icmp 200.100.0.3:6 10.100.0.2:6 192.168.2.2:6 192.168.2.2:6

Usama#
```

Ctrl+F6 to exit CLI focus

Copy

Paste

☐ Top

Time: 01:31:32



Scenario 0

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

New

Delete

Toggle PDU List Window

Cisco Packet Tracer - C:\Users\Usama\Desktop\Assignmetn.pkt

File Edit Options View Tools Extensions Help

Logical Physical x 590, y 32 [Root]

PC16

Physical Config Desktop Programming Attributes

Command Prompt

```

Packet Tracer PC Command Line 1.0
C:\>ping 10.100.0.2

Pinging 10.100.0.2 with 32 bytes of data:

Reply from 200.100.0.3: bytes=32 time=55ms TTL=123
Reply from 200.100.0.3: bytes=32 time=39ms TTL=123
Reply from 200.100.0.3: bytes=32 time=4ms TTL=123
Reply from 200.100.0.3: bytes=32 time=4ms TTL=123

Ping statistics for 10.100.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 4ms, Maximum = 55ms, Average = 25ms

C:\>

```

Time: 01:29:19

Scenario 0

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
Successful	PC6	UsamaRo...	ICMP		0.000	N	0	(edit)		
Successful	PC6	PC16	ICMP		0.000	N	1	(edit)		

Copper Straight-Through

Cisco Packet Tracer - C:\Users\Usama\Desktop\Assignmetn.pkt

File Edit Options View Tools Extensions Help

Logical Physical x 488, y 2 [Root]

UsamaRouter0

Physical Config CLI Attributes

IOS Command Line Interface

```

Usama>enable
Translating "enable"...domain server (255.255.255.255)
% Unknown command or computer name, or unable to find computer address

Usama>enable
Usama>conf t
Enter configuration commands, one per line. End with CNTL/Z.
Usama(config)#ip nat pool UsamaBeaconAkariSchool 200.100.0.3
200.100.0.6 netmask 255.255.255.248
Usama(config)#access-list 15
% Incomplete command.
Usama(config)#access-list 15 permit 10.100.0.0 0.0.0.7
Usama(config)#ip nat inside source list 15 pool
UsamaBeaconAkariSchool
Usama(config)#interface serial 0/0/0
Usama(config-if)#ip nat outside
Usama(config-if)#exit
Usama(config)#interface fa 0/0
Usama(config-if)#ip nat inside
Usama(config-if)#exit
Usama(config)#

```

Ctrl+F6 to exit CLI focus

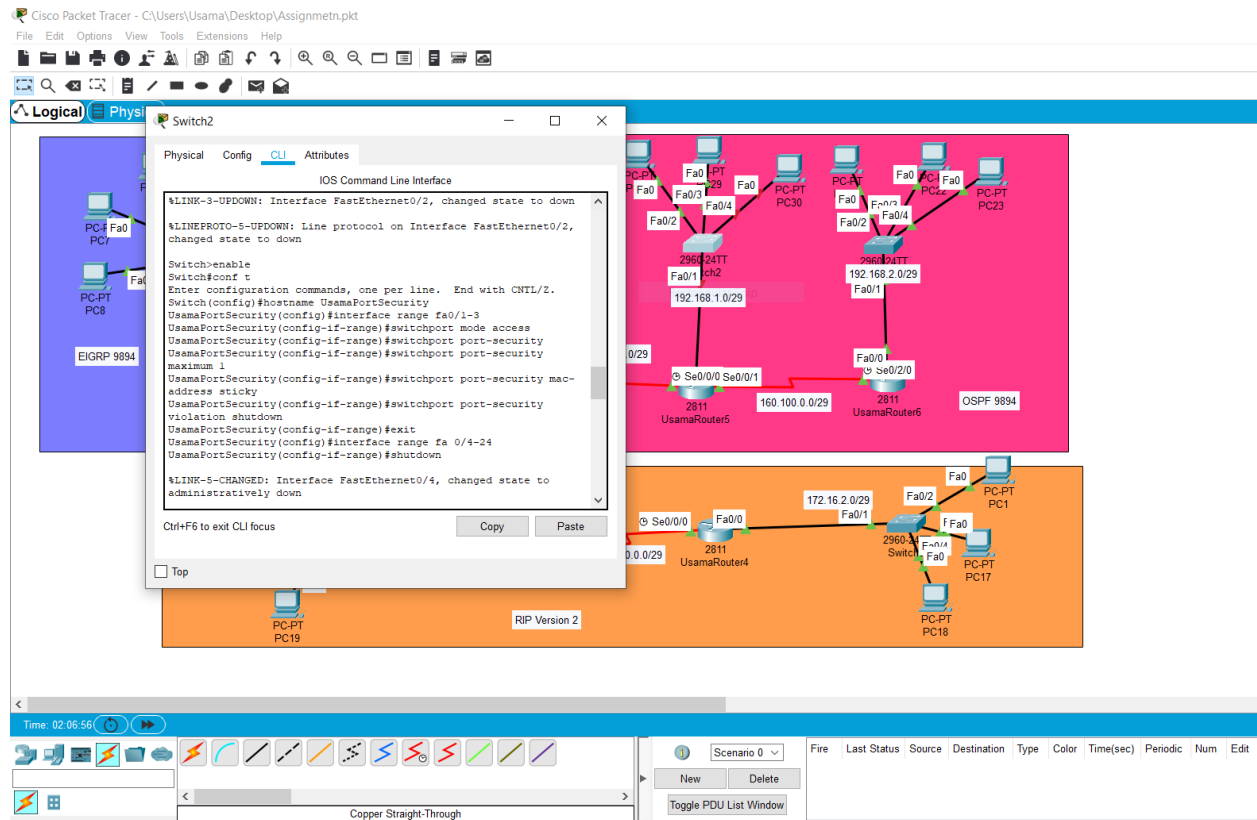
Time: 01:25:50

Scenario 0

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
Successful	PC6	UsamaRo...	ICMP		0.000	N	0	(edit)		
Successful	PC6	PC16	ICMP		0.000	N	1	(edit)		

Copper Straight-Through

PORT Security Before & After Violation :-





Switch2

Physical Config CLI Attributes

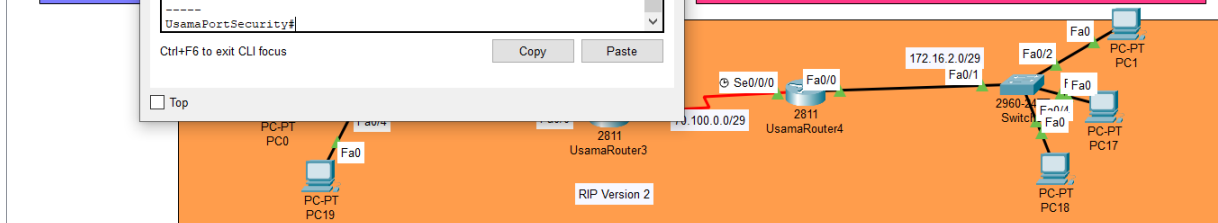
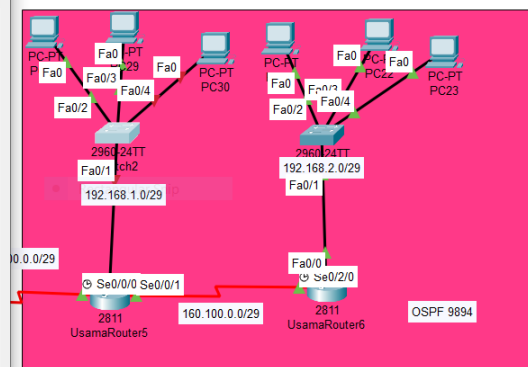
IOS Command Line Interface

```
UsamaPortSecurity(config-if-range)#exit
UsamaPortSecurity(config)#show port-security
% Invalid input detected at '^' marker.
UsamaPortSecurity(config)#exit
UsamaPortSecurity#
%SYS-5-CONFIG_I: Configured from console by console
% Ambiguous command: "*"
UsamaPortSecurity#show port-security
Secure Port MaxSecureAddr CurrentAddr SecurityViolation Security
Action (Count) (Count) (Count)
-----
Fa0/1 1 0 0
Shutdown
Fa0/2 1 0 0
Shutdown
Fa0/3 1 0 0
Shutdown
-----
UsamaPortSecurity#
```

Ctrl+F6 to exit CLI focus

Copy Paste

☐ Top



Time: 02:07:53

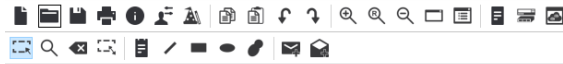
Scenario 0

New Delete

Toggle PDU List Window

Fire Last Status Source Destination Type Color Time

Copper Straight-Through



Logical Physical x:477, y:708

Switch2

Physical Config CLI Attributes

IOS Command Line Interface

Vlan	Mac Address	Type	Ports
1	0001.9690.ecce	STATIC	Fa0/2
1	0002.17da.de0c	STATIC	Fa0/3

UsamaPortSecurity#show mac address

Mac Address Table

Vlan	Mac Address	Type	Ports
1	0001.9690.ecce	STATIC	Fa0/2
1	0002.17da.de0c	STATIC	Fa0/3

UsamaPortSecurity#show mac address

Mac Address Table

Vlan	Mac Address	Type	Ports
1	0001.9690.ecce	STATIC	Fa0/2
1	0002.17da.de0c	STATIC	Fa0/3

UsamaPortSecurity#

Ctrl+F6 to exit CLI focus

Copy Paste

☐ Top

PC-PT PC19 RIP Version 2

PC-PT PC7 PC-PT PC8 EIGRP 989

PC-PT PC1 PC-PT PC2 PC-PT PC3 PC-PT PC4 PC-PT PC5 PC-PT PC6 PC-PT PC17 PC-PT PC18 PC-PT PC23

2960-24TT 2960-24TT

192.168.1.0/29 192.168.2.0/29

Se0/0/0 Se0/0/1 Se0/0/0 Se0/0/1

2811 2811

UsamaRouter5 UsamaRouter6

OSPF 9894

100.0.0/29 160.100.0.0/29 172.16.2.0/29

2811 2960-24TT

UsamaRouter4

PC-PT PC1

Time: 02:09:17

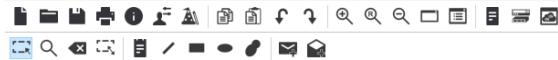
Scenario 0

New Delete

Toggle PDU List Window

Fire Last Status Source Destination Type Color

Copper Straight-Through



Logical Physical 801 v 131

Switch2

Physical Config CLI Attributes

IOS Command Line Interface

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3,
changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/3, changed state to
administratively down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3,
changed state to down

UsamaPortSecurity#show port-security
Secure Port MaxSecureAddr CurrentAddr SecurityViolation Security
Action          (Count)          (Count)          (Count)
-----
Fa0/1            1              0              0
Shutdown
Fa0/2            1              1              0
Shutdown
Fa0/3            1              1              1
Shutdown
-----
UsamaPortSecurity#
```

Ctrl+F6 to exit CLI focus

Copy Paste

Top

PC-PT PC7

PC-PT PC8

EIGRP 989

PC-PT PC19

RIP Version 2

PC-PT PC28

PC-PT PC32

PC-PT PC30

PC-PT PC21

PC-PT PC22

PC-PT PC23

2960-24TT Switch2

192.168.1.0/29

192.168.2.0/29

2811 UsamaRouter5

160.100.0.0/29

2811 UsamaRouter6

OSPF 9894

172.16.2.0/29

2811 UsamaRouter4

2960-24TT Switch5

PC-PT PC1

PC-PT PC17

PC-PT PC18

100.0.0.0/29

Time: 02:12:37

Scenario 0

New Delete

Toggle PDU List Window

Fire Last Status Source Destination Type Color Ti

Conner Straight-Through