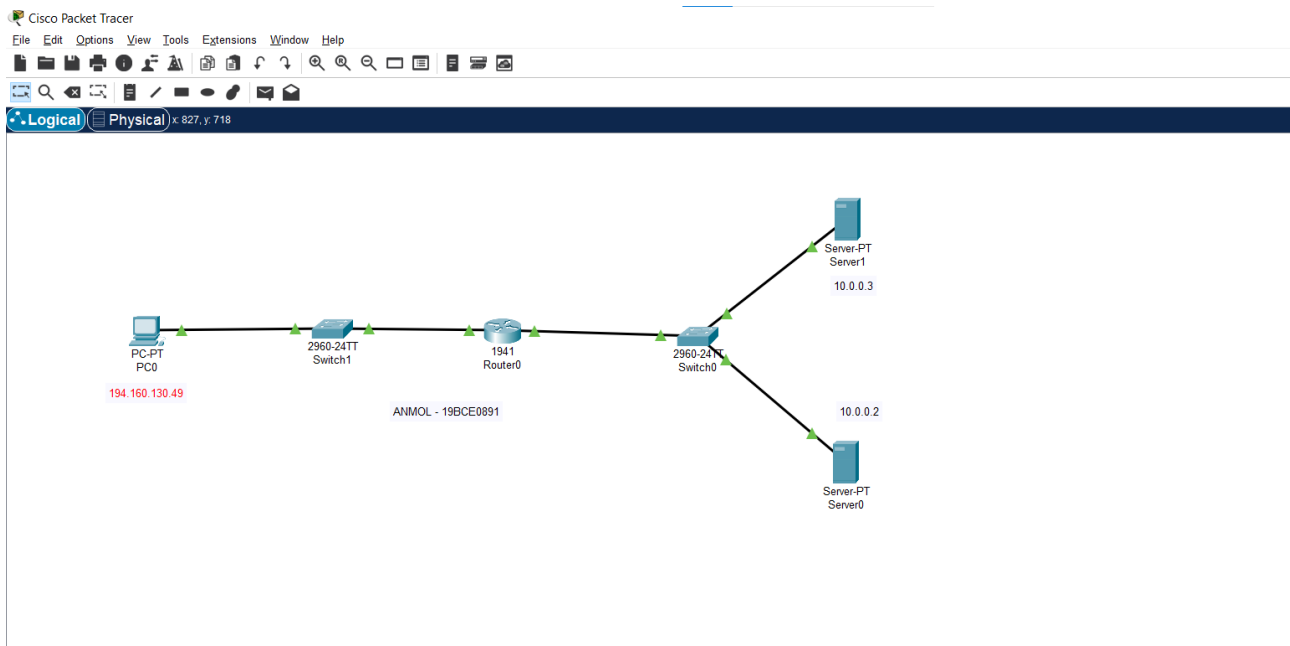


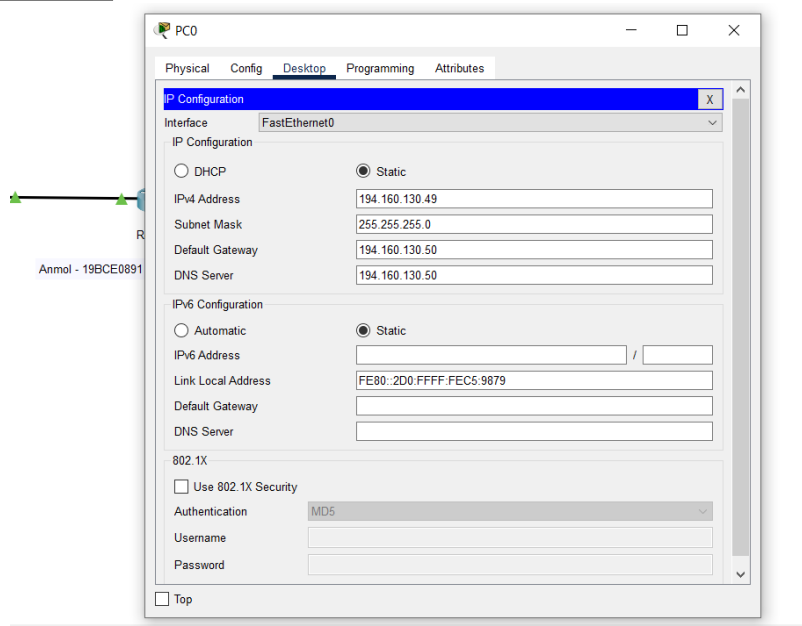
NAME – **ANMOL**
REG. NO. - **19BCE0891**

DIGITAL ASSIGNMENT – 3

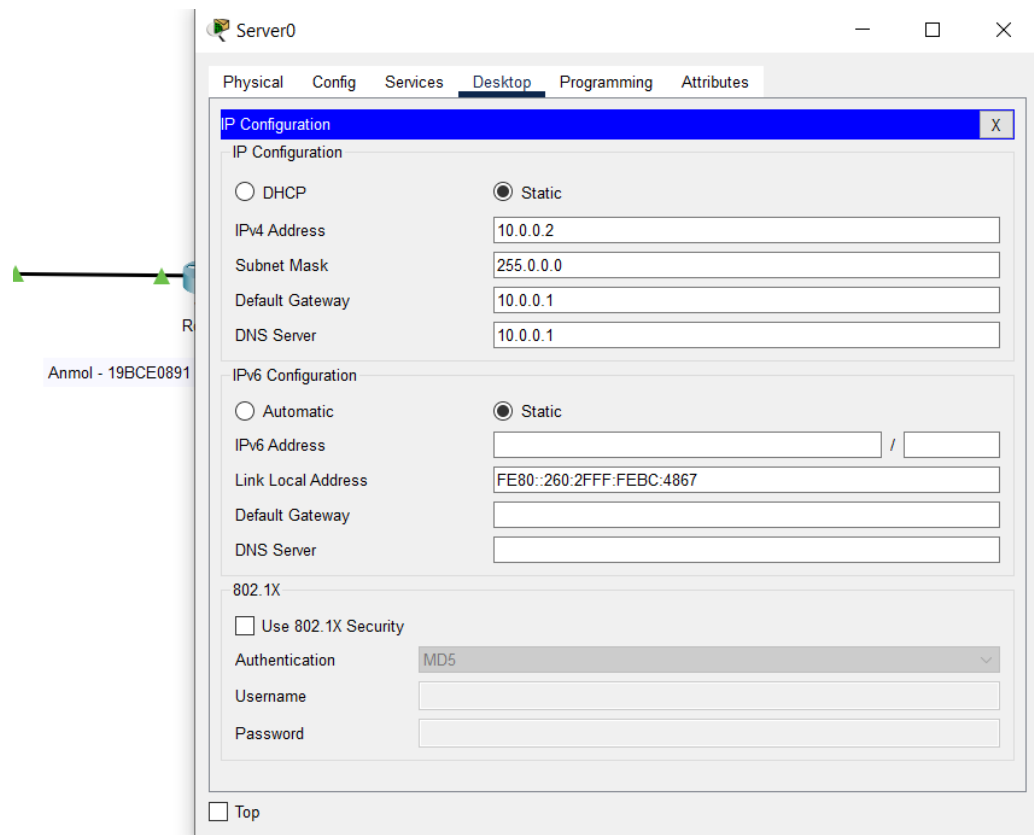
NETWORK TOPOLOGY



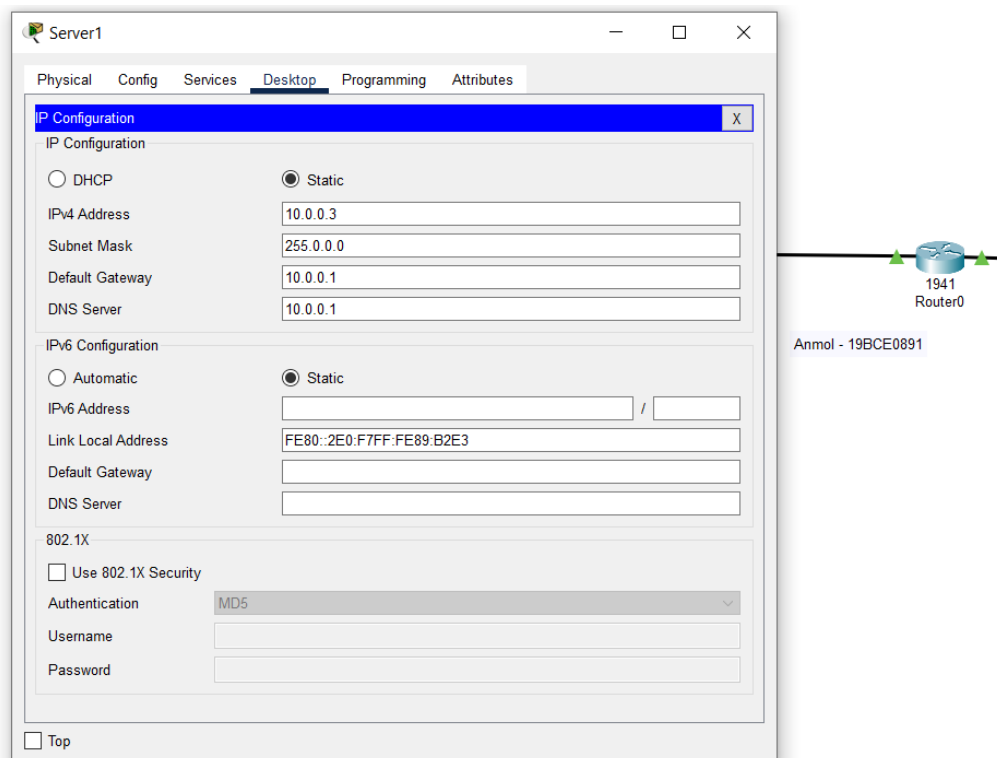
PC0 CONFIGURATION

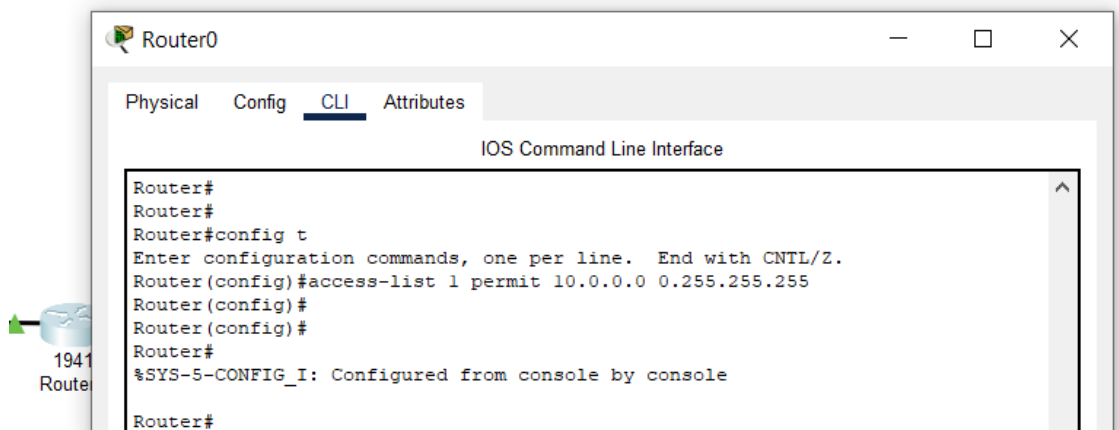
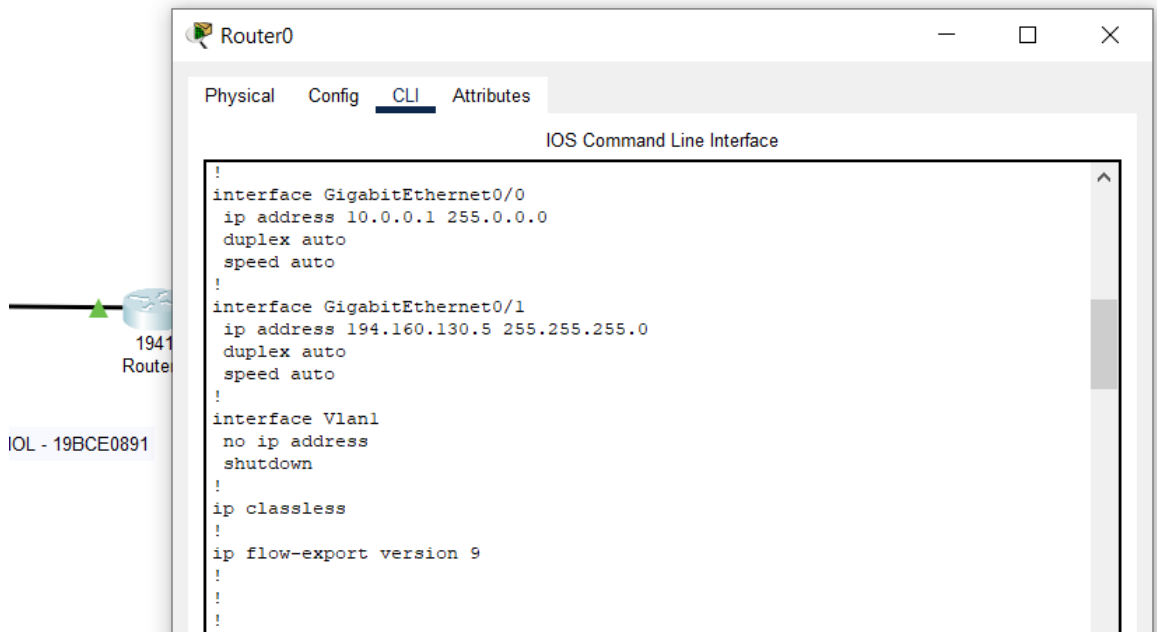


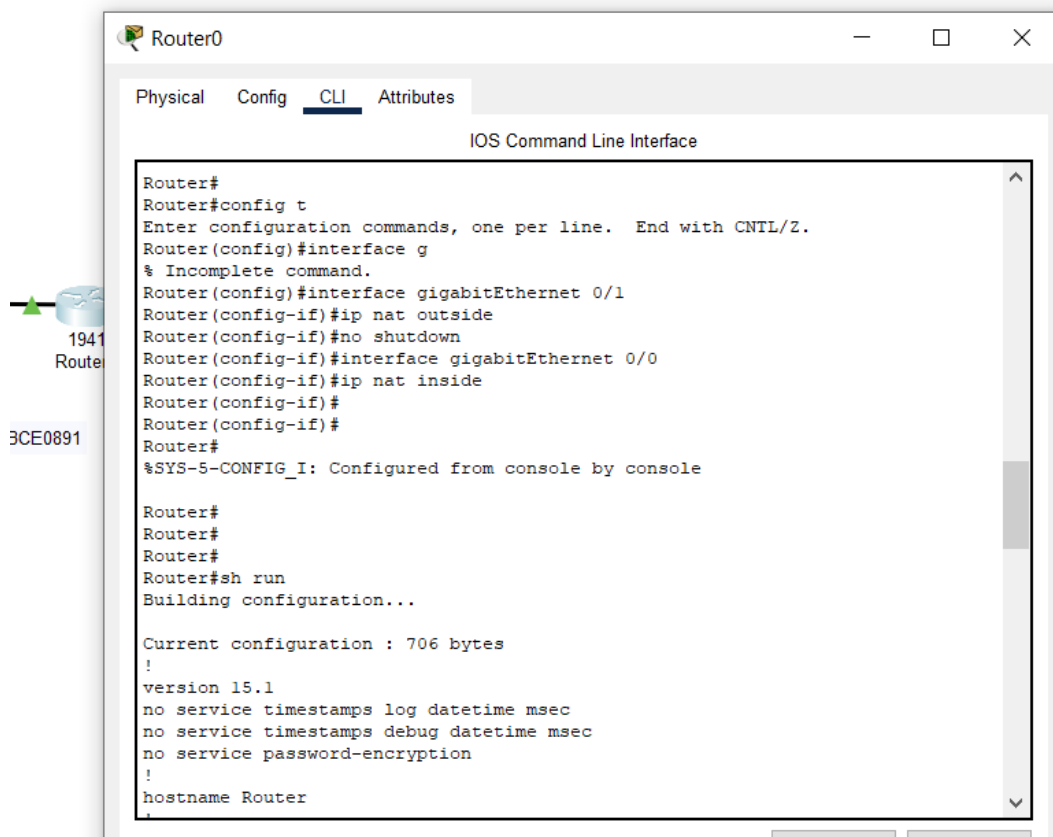
SERVER 0 CONFIGURATION



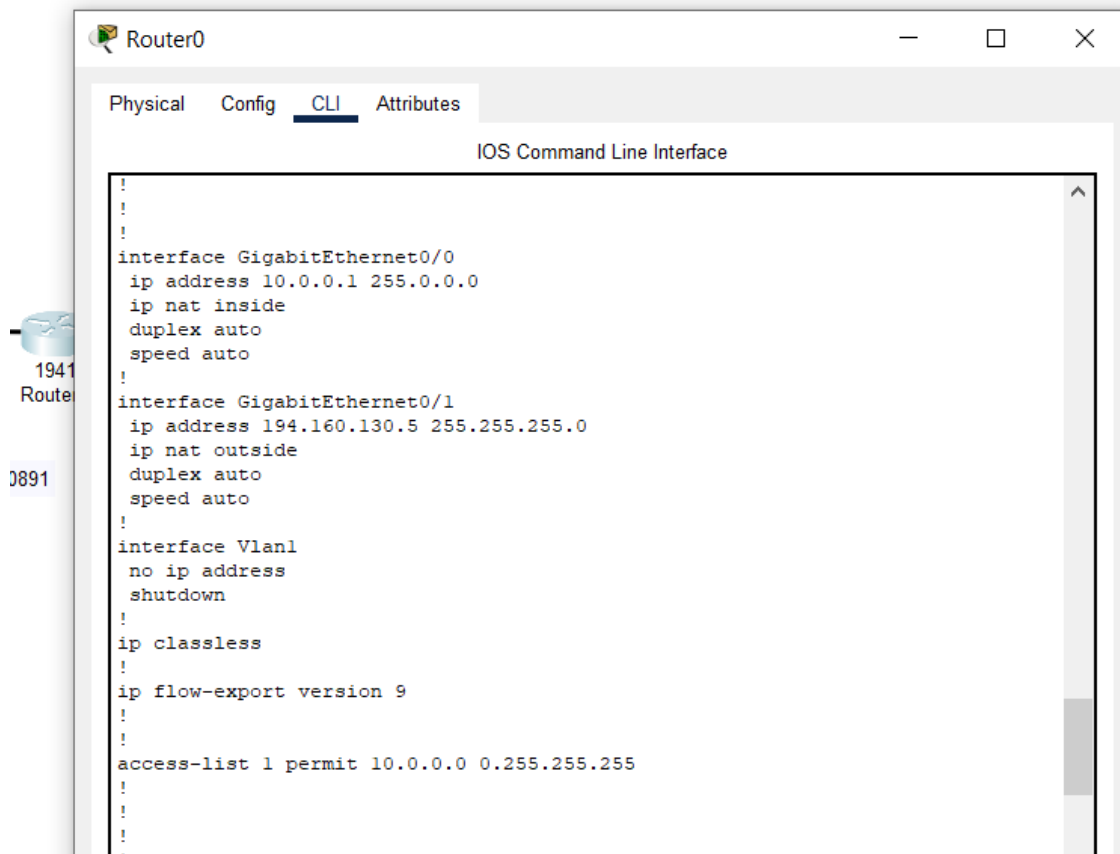
SERVER 1 CONFIGURATION

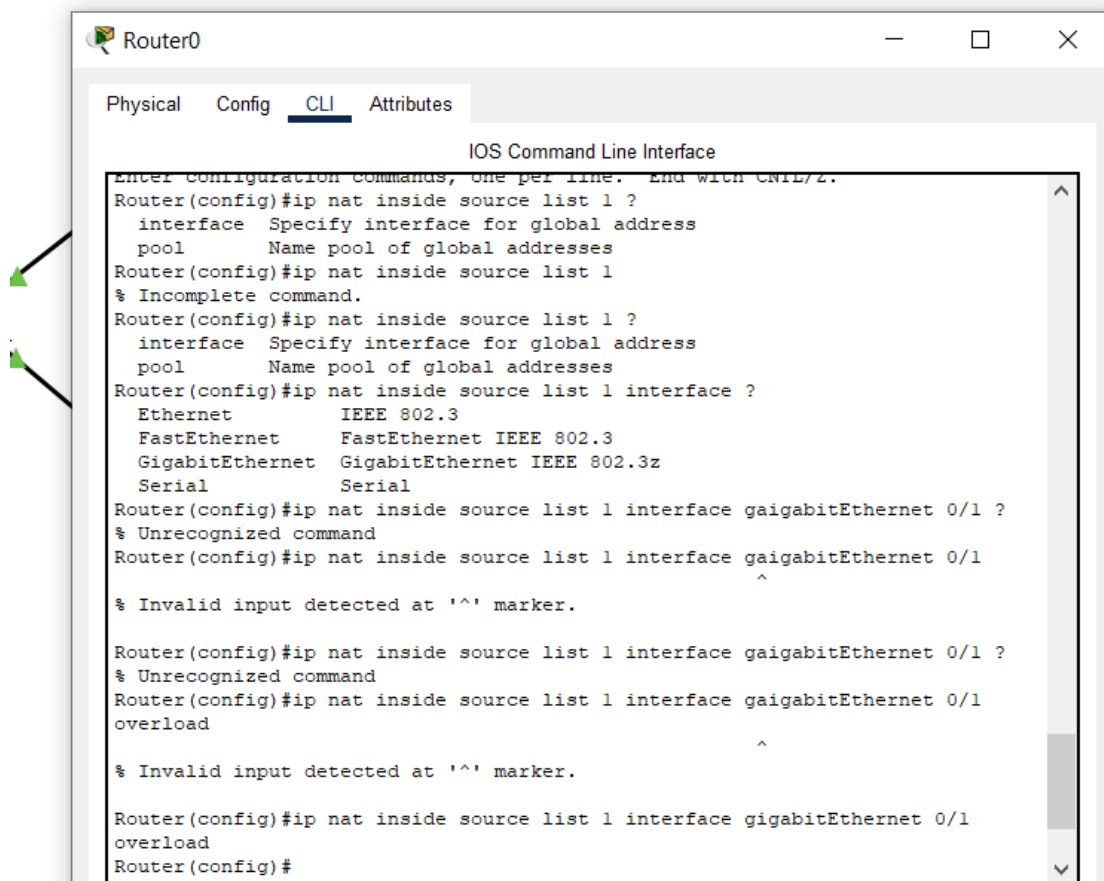
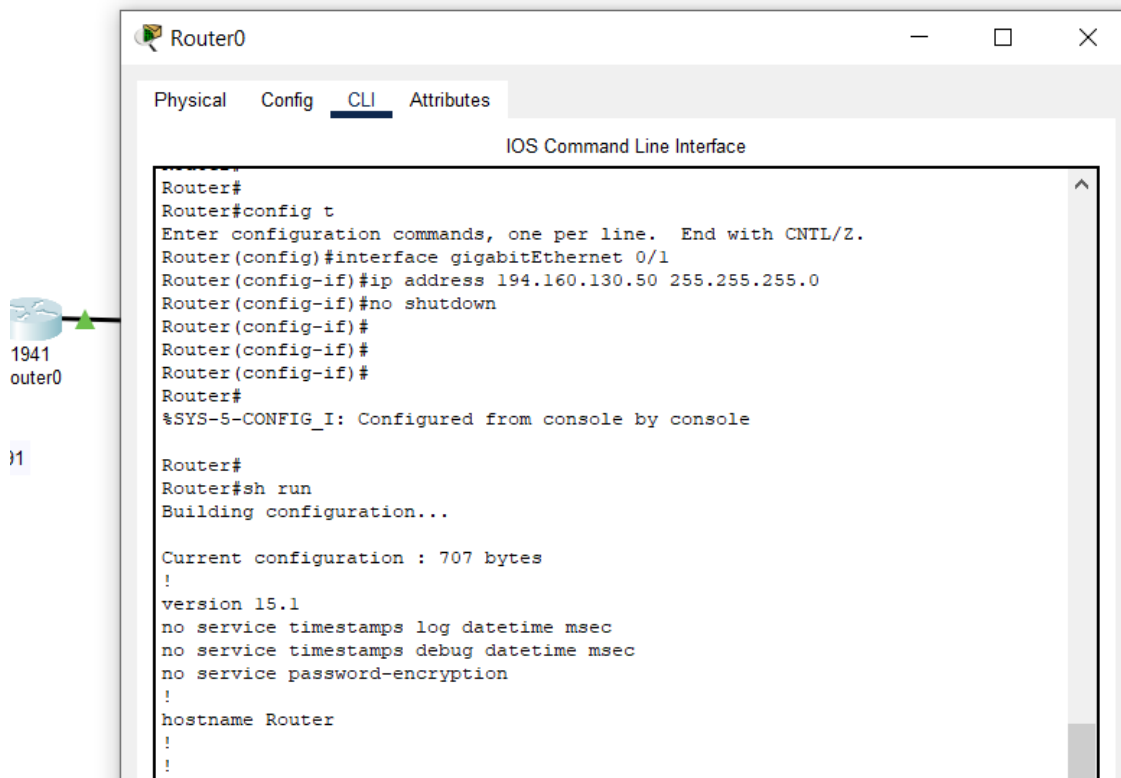


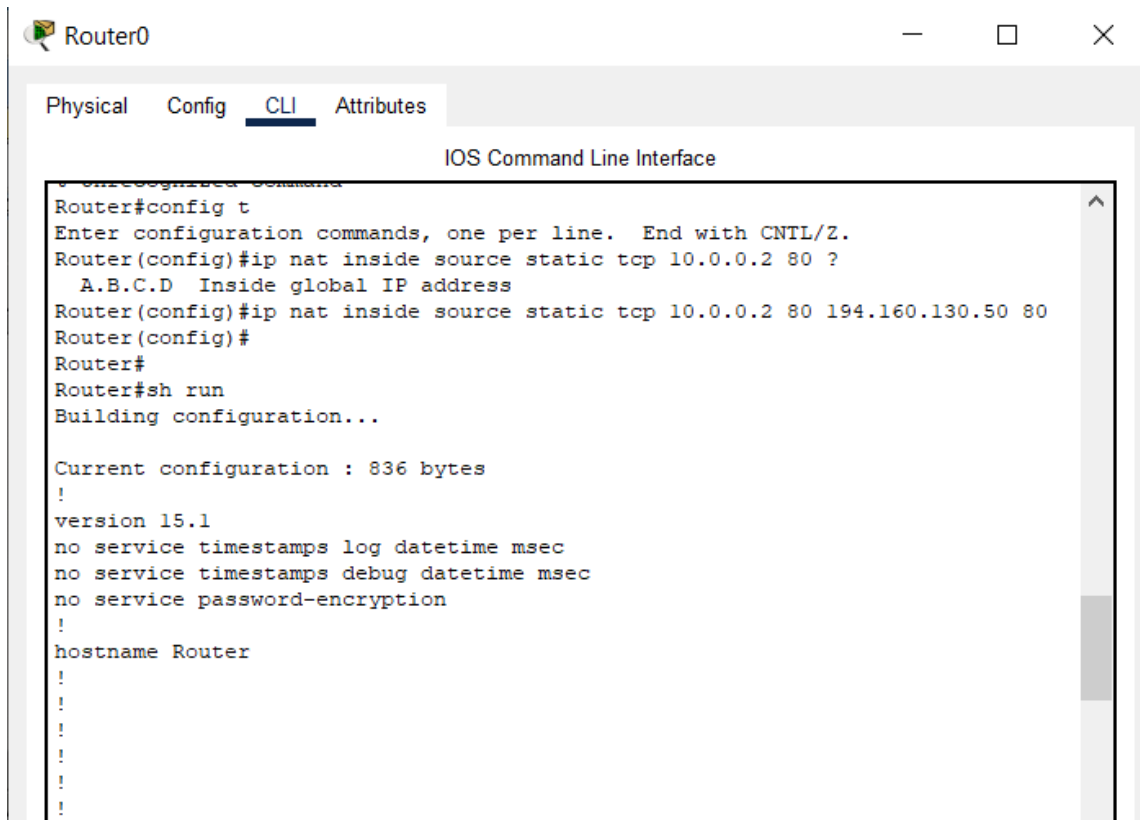
ROUTER 0 CONFIGURATION



SH RUN





SH RUN


Router0

Physical Config CLI Attributes

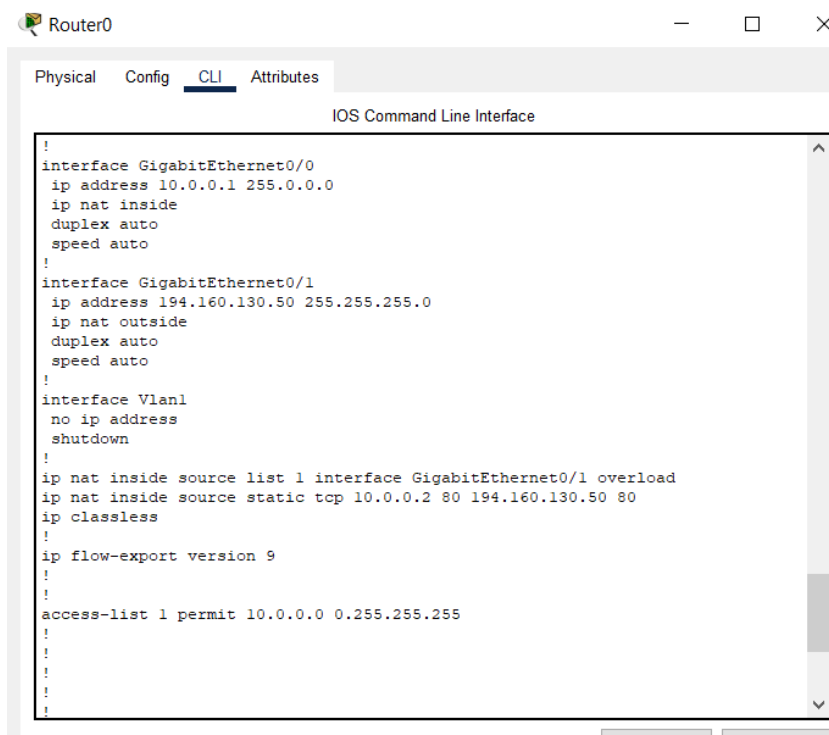
IOS Command Line Interface

```

Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip nat inside source static tcp 10.0.0.2 80 ?
  A.B.C.D Inside global IP address
Router(config)#ip nat inside source static tcp 10.0.0.2 80 194.160.130.50 80
Router(config)#
Router#
Router#sh run
Building configuration...

Current configuration : 836 bytes
!
version 15.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Router
!
!
!
!
!
!
!

```



Router0

Physical Config CLI Attributes

IOS Command Line Interface

```

!
interface GigabitEthernet0/0
ip address 10.0.0.1 255.0.0.0
ip nat inside
duplex auto
speed auto
!
interface GigabitEthernet0/1
ip address 194.160.130.50 255.255.255.0
ip nat outside
duplex auto
speed auto
!
interface Vlan1
no ip address
shutdown
!
ip nat inside source list 1 interface GigabitEthernet0/1 overload
ip nat inside source static tcp 10.0.0.2 80 194.160.130.50 80
ip classless
!
ip flow-export version 9
!
!
access-list 1 permit 10.0.0.0 0.255.255.255
!
!
!
!
!
!
!

```

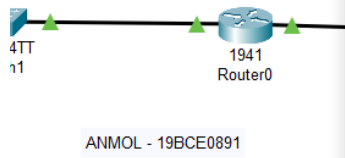
COMMANDS (ROUTER 0)

```
Router>enable
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#access-list 1 permit 10.0.0.0 0.255.255.255
Router(config)#interface GigabitEthernet0/1
Router(config-if)#ip nat outside
Router(config-if)#no shutdown
Router(config-if)#exit
```

```
Router(config)#interface GigabitEthernet0/0
Router(config-if)#ip nat inside
Router(config-if)#no shutdown
Router(config-if)#exit
Router(config)#exit
```

```
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip nat inside source list 1 interface
GigabitEthernet0/1 overload
Router(config)#ip nat inside source static tcp 10.0.0.2 80
194.160.130.50 80
Router(config)#ip nat inside source static tcp 10.0.0.3 21
194.160.130.50 21
```

CREATING COMPLEX PDU



ANMOL - 19BCE0891

4TT n1

1941 Router0

Create Complex PDU

Source Settings

Source Device: PC0

Outgoing Port: FastEthernet0 ☒ Auto Select Port

PDU Settings

Select Application: HTTP

Destination IP Address: 194.160.130.50

Source IP Address: 194.160.130.49

TTL: 32

TOS: 0

Starting Source Port: 12345

Destination Port: 80

Size: 100

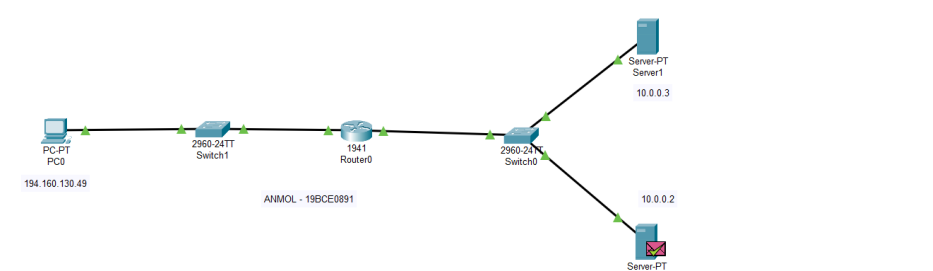
Simulation Settings

☐ One Shot Time: Seconds

☒ Periodic Interval: 10 Seconds

Create PDU

SENDING PDU VIA PC0



PC0
PC0
194.160.130.49

2960-24TT Switch1

1941 Router0

2960-24TT Switch0

Server-PT Server1
10.0.0.3

Server-PT Server0
10.0.0.2

ANMOL - 19BCE0891

Simulation Panel

Event List

| Vis | Time(sec) | Last Device | At Device |
|-----|-----------|-------------|-----------|
| | 0.000 | -- | Server0 |
| | 0.001 | Server0 | Switch0 |
| | 0.002 | Switch0 | Router0 |
| | 0.003 | Router0 | Switch1 |
| | 0.004 | Switch1 | PC0 |
| | 0.005 | PC0 | Switch1 |
| | 0.006 | Switch1 | Router0 |
| | 0.007 | Router0 | Switch0 |
| | 0.008 | Switch0 | Server0 |

Reset Simulation ☒ Constant Delay Captured to: 0.008 s

Play Controls

Event List Filters - Visible Events

ICMP

Edit Filters Show All/None

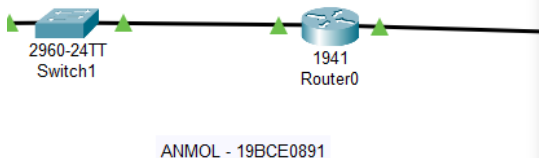
Scenario 0

New Delete

Toggle PDU List Window

| Fire | Last Status | Source | Destination | Type | Color | Time(sec) | Periodic | Num | Edit | Delete |
|------|-------------|---------|--------------|------|-------|-----------|----------|-----|--------|----------|
| | Successful | Server0 | PC0 | ICMP | | 0.000 | N | 0 | (edit) | (delete) |
| | Successful | PC0 | 194.160.1... | TCP | | 1.000 | N | 1 | (edit) | (delete) |
| | Successful | PC0 | 194.160.1... | TCP | | 10.000 | Y | 2 | (edit) | (delete) |

CREATING COMPLEX PDU



2960-24TT Switch1

1941 Router0

ANMOL - 19BCE0891

Create Complex PDU

Source Settings

Source Device: PC0

Outgoing Port: FastEthernet0 ☒ Auto Select Port

PDU Settings

Select Application: FTP

Destination IP Address: 194.160.130.50

Source IP Address: 194.160.130.49

TTL: 32

TOS: 0

Starting Source Port: 12345

Destination Port: 21

Size: 100

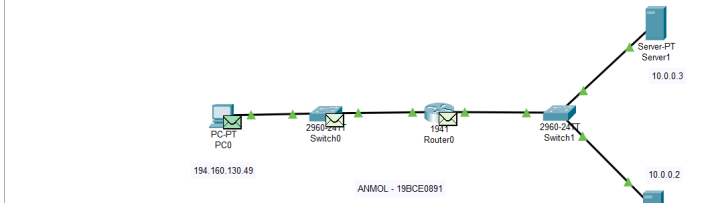
Simulation Settings

☐ One Shot Time: Seconds

☒ Periodic Interval: 10 Seconds

Create PDU

SENDING PDU VIA PC0



PC-PT PC0

194.160.130.49

2960-24TT Switch1

1941 Router0

2960-24TT Switch1

Server-PT Server1 10.0.0.3

Server-PT Server0 10.0.0.2

ANMOL - 19BCE0891

Time: 01:16:06.854 PLAY CONTROLS

Simulation Panel

Event List

| Vis. | Time(sec) | Last Device |
|------|-----------|-------------|
| | 0.006 | Switch1 |
| | 0.007 | Switch1 |
| | 0.007 | Router0 |
| | 0.008 | Router0 |
| | 0.008 | Switch0 |
| | 0.008 | ... |
| | 0.009 | Switch0 |
| | 0.009 | ... |
| | 0.009 | PC0 |
| | 0.009 | ... |
| | 0.010 | PC0 |
| | 0.010 | Switch0 |
| | 0.010 | ... |

Reset Simulation ☒ Constant Delay Captured to: 0.010 s

Play Controls

Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, IRT, IRT TCP, LACP, LLDP, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPng, RTP, SCOP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Event List Realtime Simulation

| Fire | Last Status | Source | Destination | Type | Color | Time(sec) | Periodic | Num | Edit | Delete |
|------|-------------|--------|--------------|------|-------|-----------|----------|-----|--------|----------|
| | Successful | PC0 | 194.160.1... | TCP | | 100.000 | Y | 0 | (edit) | (delete) |
| | Successful | PC0 | 194.160.1... | TCP | | 10.000 | Y | 1 | (edit) | (delete) |

Toggle PDU List Window