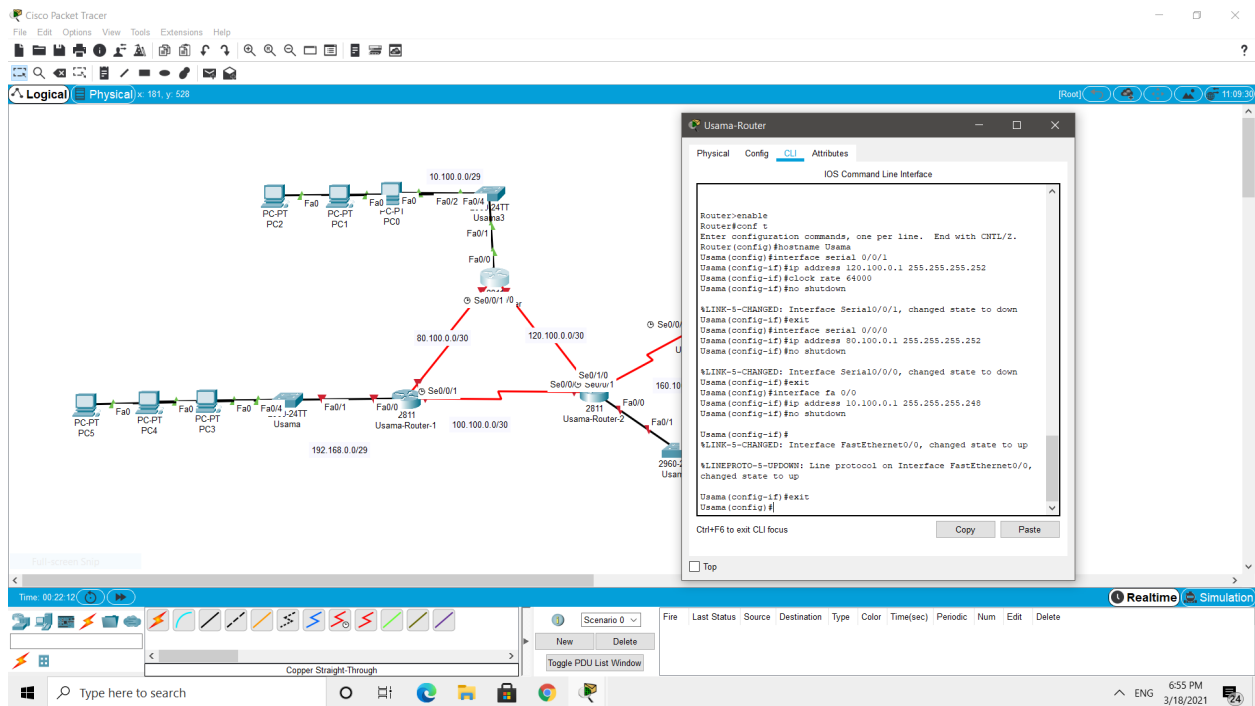
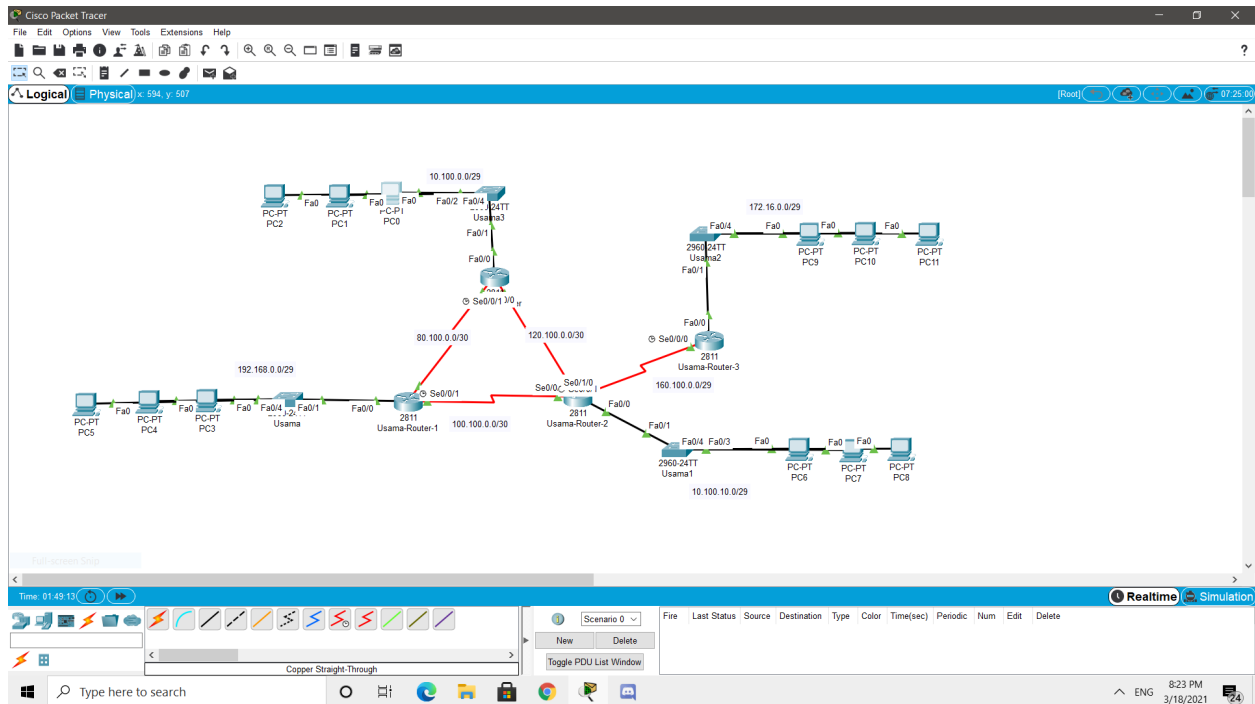


## **LAB TASK NO.09**

***Usama Rehman***  
**9894**

***Screenshots :-***



Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x 1045, y 575

Usama-Router-1

Physical Config CLI Attributes

IOS Command Line Interface

```
Router>enable
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname Usama
Usama(config)#interface serial 0/0/0
Usama(config-if)#ip address 80.100.0.2 255.255.255.252
Usama(config-if)#clock rate 64000
Usama(config-if)#no shutdown
Usama(config-if)#
%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up
Usama(config)#interface serial 0/0/1
Usama(config-if)#ip address 100.100.0.1 255.255.255.252
Usama(config-if)#no shutdown
Usama(config-if)#
%LINK-5-CHANGED: Interface Serial0/0/1, changed state to down
Usama(config-if)#exit
Usama(config)#interface fa 0/0
Usama(config-if)#ip address 192.168.0.1 255.255.255.248
Usama(config-if)#no shutdown
Usama(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
Usama(config-if)#exit
Usama(config)#
```

Ctrl+F6 to exit CLI focus

Copy Paste

Top

Time: 00:24:31

Realtime Simulation

Scenario 0

New Delete

Toggle PDU List Window

Type here to search

ENG 6:57 PM 3/18/2021

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x 382, y 446

Usama-Router-2

Physical Config CLI Attributes

IOS Command Line Interface

```
Router>enable
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname Usama
Usama(config)#interface serial 0/0/0
Usama(config-if)#ip address 100.100.0.2 255.255.255.252
Usama(config-if)#clock rate 64000
Usama(config-if)#no shutdown
Usama(config-if)#
%LINK-5-CHANGED: Interface Serial0/0/1, changed state to up
Usama(config-if)#exit
Usama(config)#interface serial 0/0/1
Usama(config-if)#ip address 120.100.0.2 255.255.255.252
Usama(config-if)#no shutdown
Usama(config-if)#
%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up
Usama(config-if)#exit
Usama(config)#interface serial 0/1/0
Usama(config-if)#ip address 160.100.0.1 255.255.255.252
Usama(config-if)#no shutdown
Usama(config-if)#
%LINK-5-CHANGED: Interface Serial0/1/0, changed state to down
Usama(config-if)#exit
Usama(config)#interface fa 0/0
Usama(config-if)#ip address 10.100.10.1 255.255.255.248
Usama(config-if)#no shutdown
Usama(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
Usama(config-if)#exit
Usama(config)#
```

Ctrl+F6 to exit CLI focus

Copy Paste

Top

Time: 00:28:53

Realtime Simulation

Scenario 0

New Delete

Toggle PDU List Window

Type here to search

ENG 7:02 PM 3/18/2021

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x 164, y 649

Time: 00:32:56

Scenario 0

Toggle PDU List Window

Usama-Router-3

Physical Config CLI Attributes

IOS Command Line Interface

Press RETURN to get started!

```

Router>enable
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface serial 0/0/0
Router(config-if)#ip address 160.100.0.2 255.255.255.252
Router(config-if)#clock rate 64000
Router(config-if)#no shutdown
Router(config-if)#
*LINE-5-CHANGED: Interface Serial0/0/0, changed state to up
Router(config-if)#exit
Router(config)#
*LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0,
changed state to up
Router(config)#interface fa0/0
Router(config-if)#ip address 172.16.0.1 255.255.255.248
Router(config-if)#
*LINE-5-CHANGED: Interface FastEthernet0/0, changed state to up
*LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0,
changed state to up
Router(config-if)#exit
Router(config)#
  
```

Ctrl+F6 to exit CLI focus

Copy Paste

Top

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x 164, y 649

Time: 00:39:21

Scenario 0

Toggle PDU List Window

Usama-Router

Physical Config CLI Attributes

IOS Command Line Interface

Press RETURN to get started.

```

Usama>enable
Usama#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Usama (config)#router eigrp 9999
Usama (config-router)#network 10.0.0.0
Usama (config-router)#network 80.0.0.0
Usama (config-router)#network 120.0.0.0
Usama (config-router)#no auto-summary
Usama (config-router)#end
*SYS-5-CONFIG_I: Configured from console by console
  
```

Ctrl+F6 to exit CLI focus

Copy Paste

Top

Realtime Simulation

7:12 PM 3/18/2021

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x 717, y 419

Usama-Router-1

Physical Config CLI Attributes

IOS Command Line Interface

```

Usama>enable
Usama#conf t
% Invalid input detected at '^' marker.

Usama#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Usama(config)#router eigrp 9994
Usama(config-router)#network 80.0.0.0
Usama(config-router)#
NDUAL-5-NBRCCHANGE: IP-EIGRP 9994: Neighbor 80.100.0.1
(Serial0/0/0) is up: new adjacency

Usama(config-router)#network 100.0.0.0
Usama(config-router)#network 192.168.0.0
Usama(config-router)#no auto-summary
Usama(config-router)#
NDUAL-5-NBRCCHANGE: IP-EIGRP 9994: Neighbor 80.100.0.1
(Serial0/0/0) is up: new adjacency

Usama(config-router)#end
Usama#
SYS-5-CONFIG_I: Configured from console by console
  
```

Ctrl+F6 to exit CLI focus

Copy Paste

Time: 00:40:36

Simulation

Scenario 0

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

New Delete

Toggle PDU List Window

Type here to search

ENG 7:13 PM 3/18/2021

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x 266, y 486

Usama-Router-2

Physical Config CLI Attributes

IOS Command Line Interface

```

Usama>enable
Usama#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Usama(config)#router eigrp 9994
Usama(config-router)#network 100.0.0.0
Usama(config-router)#
NDUAL-5-NBRCCHANGE: IP-EIGRP 9994: Neighbor 100.100.0.1
(Serial0/0/1) is up: new adjacency

Usama(config-router)#network 120.0.0.0
Usama(config-router)#
NDUAL-5-NBRCCHANGE: IP-EIGRP 9994: Neighbor 120.100.0.1
(Serial0/0/0) is up: new adjacency

Usama(config-router)#network 160.100.0.0
Usama(config-router)#no auto-summary
Usama(config-router)#
NDUAL-5-NBRCCHANGE: IP-EIGRP 9994: Neighbor 100.100.0.1
(Serial0/0/1) is up: new adjacency

Usama(config-router)#network 120.100.0.1
(Serial0/0/0) is up: new adjacency

Usama(config-router)#end
Usama#
SYS-5-CONFIG_I: Configured from console by console
  
```

Ctrl+F6 to exit CLI focus

Copy Paste

Time: 00:43:36

Simulation

Scenario 0

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

New Delete

Toggle PDU List Window

Type here to search

ENG 7:17 PM 3/18/2021

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x 265, y 550

Time: 00:44:30

Scenario 0

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

New Delete

Toggle PDU List Window

Type here to search

ENG 7:17 PM 3/18/2021

Usama-Router-3

Physical Config CLI Attributes

IOS Command Line Interface

```

Router>enable
Router#conf t
Configuring from terminal, memory, or network [terminal]? t
Enter configuration commands, one per line. End with CTRL/Z.
Router(config)#router isrp 9894
Router(config-router)#network 160.100.0.0
Router(config-router)#
VDUAL-5-NSRC-CHANGE: IP-IGRP 9894: Neighbor 160.100.0.1
(Serial0/0/0) is up: new adjacency
Router(config-router)#network 172.16.0.0
Router(config-router)#no auto-summary
Router(config-router)#
VDUAL-5-NSRC-CHANGE: IP-IGRP 9894: Neighbor 160.100.0.1
(Serial0/0/0) resync: summary configured
Router(config-router)#end
Router#
NSYS-5-CONFIG_I: Configured from console by console
  
```

Ctrl+F6 to exit CLI focus

Copy Paste

Top

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x 314, y 527

Time: 01:43:22

Scenario 0

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

New Delete

Toggle PDU List Window

Type here to search

ENG 8:17 PM 3/18/2021

Usama-Router-3

Physical Config CLI Attributes

IOS Command Line Interface

```

Usama#
Usama#
Usama#
Usama#
Usama#
Usama#conf t
Enter configuration commands, one per line. End with CTRL/Z.
Usama(config)#ip nat pool Usama9894 160.100.0.3 160.100.0.6
netmask 255.255.255.255
Usama(config)#access-list 25 permit 172.16.0.0 0.0.0.7
Usama(config)#ip nat inside source list 25 pool Usama9894
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
NSYS-5-CONFIG_I: Configured from console by console
Usama#show ip nat statistics
  
```

Ctrl+F6 to exit CLI focus

Copy Paste

Top

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 505, y: 537 [Root] 05:32:30

Usama-Router-3

Physical Config CLI Attributes

IOS Command Line Interface

```

ip nat pool Usama9894 160.100.0.3 160.100.0.6 netmask
255.255.255.249
ip nat inside source list 25 pool Usama9894
ip classless
ip flow-export version 9
!
access-list 25 permit 172.16.0.0 0.0.0.7
!
!
line con 0
!
line aux 0
!
line vty 0 4
login
!

```

Ctrl+F6 to exit CLI focus

Copy Paste

Top

Time: 01:45:34

Realtime Simulation

Scenario 0

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

New Delete

Toggle PDU List Window

Type here to search

ENG 8:20 PM 3/18/2021

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 879, y: 320 [Root] 06:28:30

PC6

Physical Config Desktop Programming Attributes

Command Prompt

```

Packet Tracer PC Command Line 1.0
C:\>ping 172.16.0.2

Pinging 172.16.0.2 with 32 bytes of data:
Reply from 160.100.0.3: bytes=32 time=2ms TTL=126
Reply from 160.100.0.3: bytes=32 time=2ms TTL=126
Reply from 160.100.0.3: bytes=32 time=1ms TTL=126
Reply from 160.100.0.3: bytes=32 time=1ms TTL=126

Ping statistics for 172.16.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 17ms, Average = 9ms

C:\>ping 172.16.0.3

Pinging 172.16.0.3 with 32 bytes of data:
Request timed out.
Reply from 160.100.0.4: bytes=32 time=2ms TTL=126
Reply from 160.100.0.4: bytes=32 time=2ms TTL=126
Reply from 160.100.0.4: bytes=32 time=1ms TTL=126

Ping statistics for 172.16.0.3:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 8ms, Average = 3ms

C:\>

```

Top

Time: 01:47:23

Realtime Simulation

Scenario 0

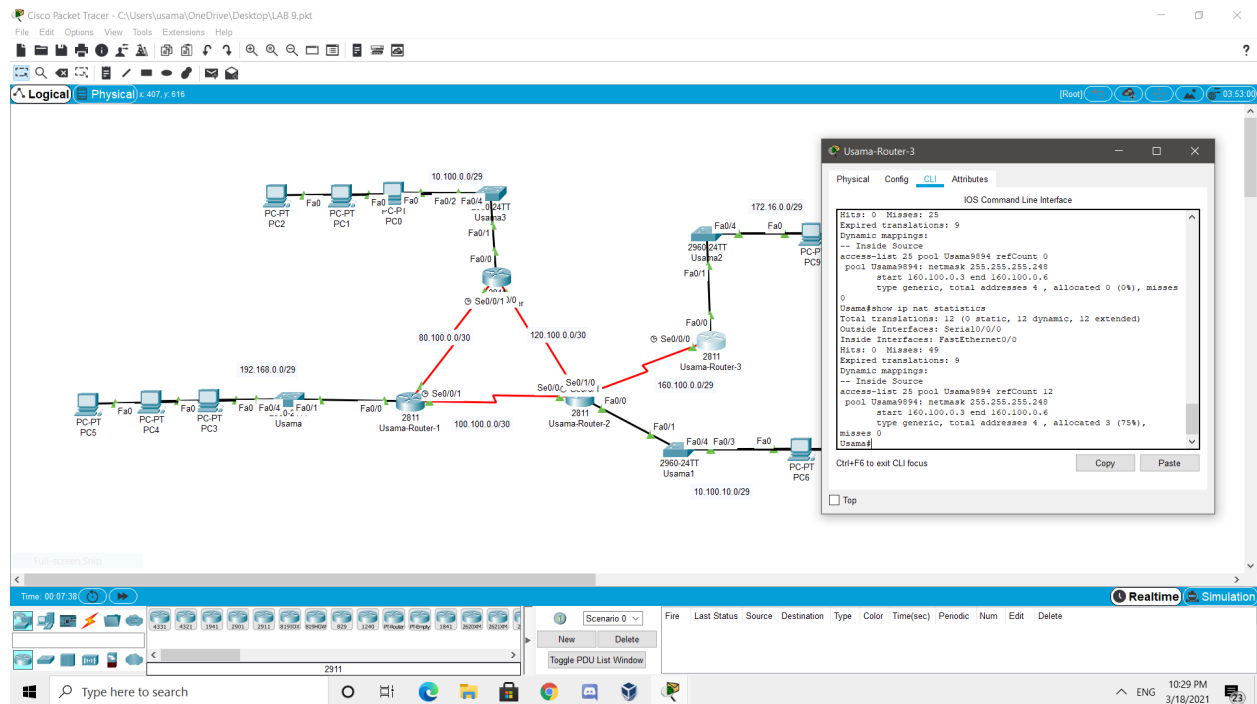
Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

New Delete

Toggle PDU List Window

Type here to search

ENG 8:22 PM 3/18/2021



## COMMAND

### SHOW IP NAT TRANSLATIONS:-

*This Command Shows the number of NAT Translations, the network translated from private to public from inside to outside. This command can be useful when you want to verify that the NAT configuration is working and inside local ip addresses are being translated.*