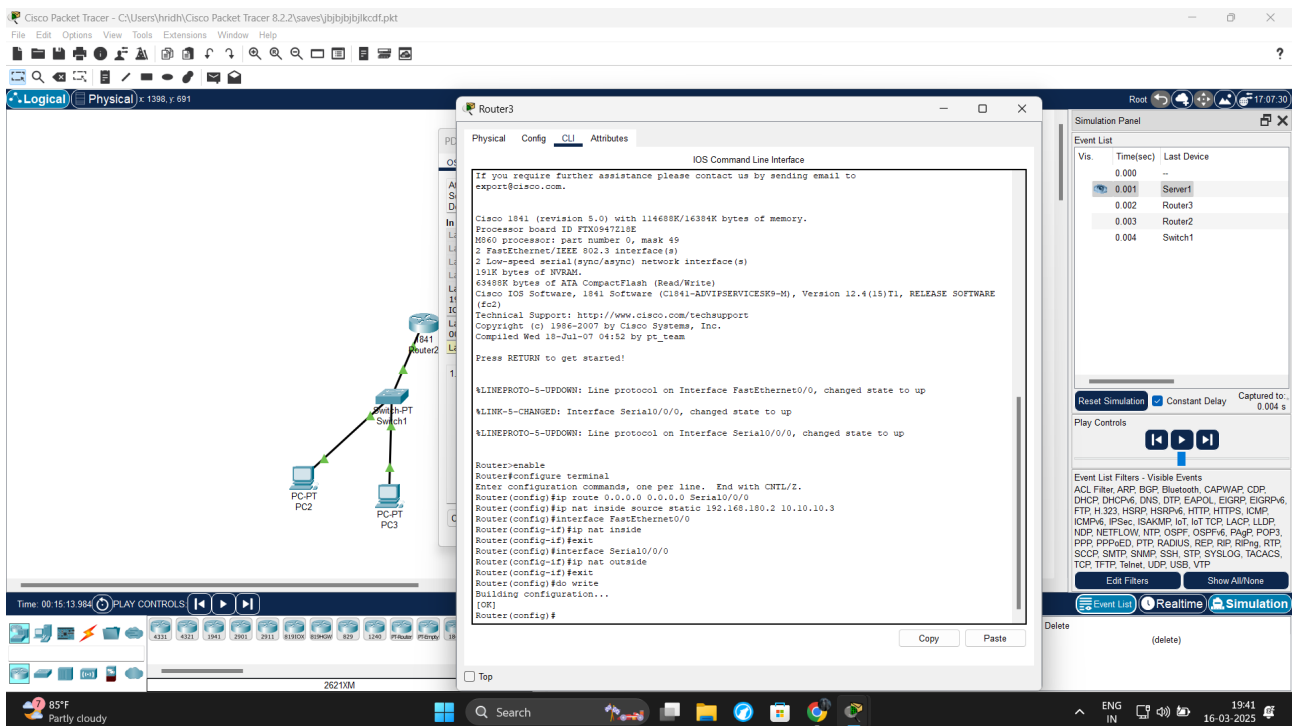
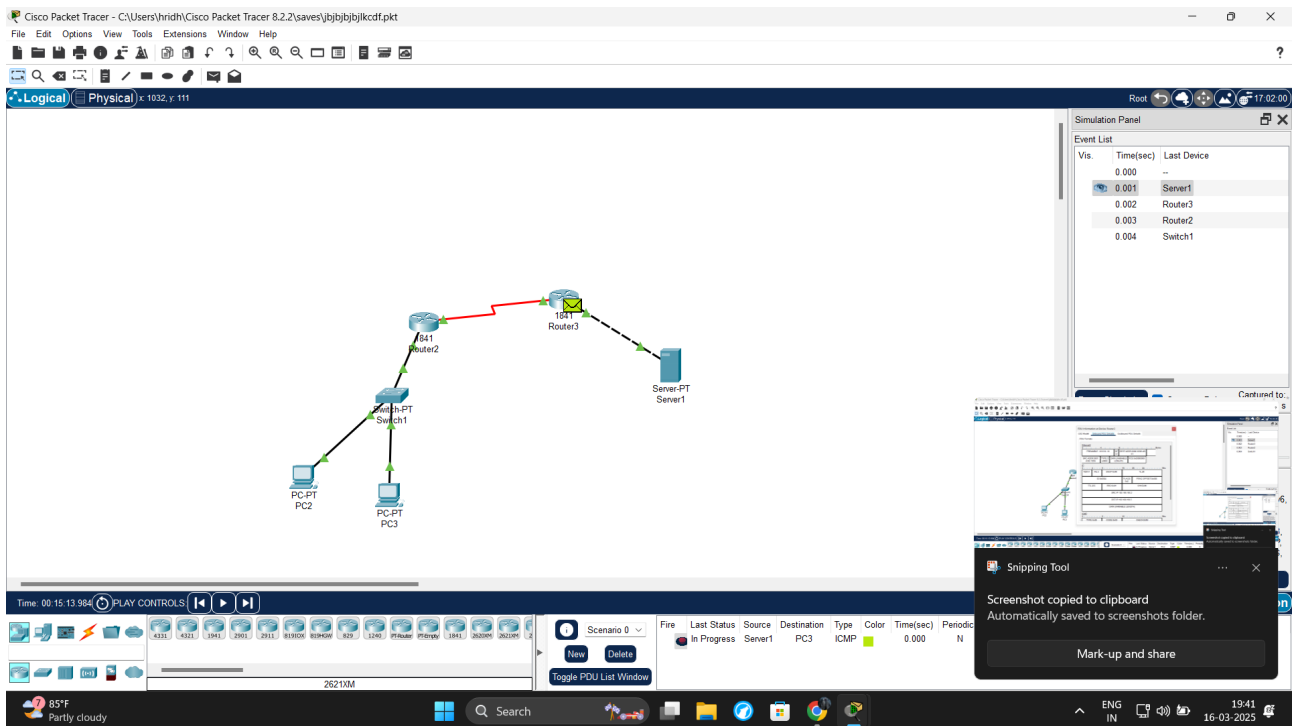


STATIC NAT



Cisco Packet Tracer - C:\Users\hridh\Cisco Packet Tracer 8.2.2\saves\ybjbjbjkcdkf.pkt

File Edit Options View Tools Extensions Window Help

Logical Physical x: 276, y: 535

Root 16:56:00

PDU Information at Device: Router3

OSI Model Inbound PDU Details Outbound PDU Details

PDU Formats

HDLCL

0 8 16 24 Bits

FLG: 0x7E ADR: 0x8f CONTROL: 0x0000

DATA (VARIABLE LENGTH)

FCS: 0x0000 FLG: 0x7E

IP

0 4 8 16 20 24 Bits

VER: 4 IHL: 5 DSCP: 0x00 TL: 28

ID: 0x0004 FLAGS: 0x0 FRAG OFFSET: 0x000

TTL: 254 PRO: 0x01 CHKSUM

SRC IP: 10.10.10.3

DST IP: 192.168.190.3

DATA (VARIABLE LENGTH)

ICMP

0 8 16 Bits

TYPE: 0x00 CODE: 0x00 CHECKSUM

Simulation Panel

Event List

Vis. Time(sec) Last Device

0.000 -

0.001 Server1

0.002 Router3

0.003 Router2

0.004 Switch1

Reset Simulation Constant Delay Captured to: 0.004 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, IoT, IoT TCP, LACP, LLDP, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAg, POP3, PPP, PPPoE, PTP, RADIUS, RDP, RDPing, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

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

In Progress Server1 PC3 ICMP 0.000 N 0 (edit) (delete)

2621M

85°F Partly cloudy

Search

ENG IN 19:40 16-03-2023

Cisco Packet Tracer - C:\Users\hridh\Cisco Packet Tracer 8.2.2\saves\ybjbjbjkcdkf.pkt

File Edit Options View Tools Extensions Window Help

Logical Physical x: 974, y: 15

Root 16:58:30

PDU Information at Device: Router3

OSI Model Inbound PDU Details Outbound PDU Details

PDU Formats

EthernetII

0 4 8 16 20 24 Bytes

PREAMBLE: 101010...10 SF D DEST ADDR: 0000 0C68 AB 01

SRC ADDR: 0001 4302 1B59 TYPE: 0 x0800 DATA (VARIABLE LENGTH) FCS: 0x00000000

IP

0 4 8 16 20 24 Bits

VER: 4 IHL: 5 DSCP: 0x00 TL: 28

ID: 0x0004 FLAGS: 0x0 FRAG OFFSET: 0x000

TTL: 255 PRO: 0x01 CHKSUM

SRC IP: 192.168.180.2

DST IP: 192.168.190.3

DATA (VARIABLE LENGTH)

ICMP

0 8 16 Bits

TYPE: 0x00 CODE: 0x00 CHECKSUM

Simulation Panel

Event List

Vis. Time(sec) Last Device

0.000 -

0.001 Server1

0.002 Router3

0.003 Router2

0.004 Switch1

Reset Simulation Constant Delay Captured to: 0.004 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, IoT, IoT TCP, LACP, LLDP, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAg, POP3, PPP, PPPoE, PTP, RADIUS, RDP, RDPing, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

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

In Progress Server1 PC3 ICMP 0.000 N 0 (edit) (delete)

2621M

85°F Partly cloudy

Search

ENG IN 19:40 16-03-2023

Snipping Tool

Screenshot copied to clipboard

Automatically saved to screenshots folder.

Mark-up and share

DYNAMIC NAT

Cisco Packet Tracer - C:\Users\hridh\Cisco Packet Tracer 8.2.2\saves\jbjbjbjkcdt.pkt

File Edit Options View Tools Extensions Window Help

Logical Physical x 1056, y 165

Time: 00:33:45 985 PLAY CONTROLS

Scenario 0 Fire Last Status Source Destination Type Color Time(sec) Periodic

Toggle PDU List Window

Simulation Panel

Vis.	Time(sec)	Last Device	At Device
	0.000	--	PC3
	0.001	PC3	Switch1
	0.002	Switch1	Router0
	0.003	Router0	Router3
	0.004	Router3	Server1
	0.005	Server1	Router3
	0.006	Router3	Router0
	0.007	Router0	Switch1
	0.008	Switch1	PC3
	1.008	--	PC3
	1.009	PC3	Switch1
	1.010	Switch1	Router0
	1.011	Router0	Router3
	1.012	Router3	Server1

Snipping Tool

Screenshot copied to clipboard
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Mark-up and share

Cisco Packet Tracer - C:\Users\hridh\Cisco Packet Tracer 8.2.2\saves\jbjbjbjkcdt.pkt

File Edit Options View Tools Extensions Window Help

Logical Physical x 1285, y 663

Time: 00:33:45 985 PLAY CONTROLS

Scenario 0 Fire Last Status Source Destination Type Color Time(sec) Periodic

Toggle PDU List Window

Router0

Physical Config CLI Attributes

IOS Command Line Interface

```
Router>enable
Router(config)#exit
Router(config)#interface FastEthernet0/0
% Invalid input detected at '^' marker.
Router(config)#interface FastEthernet0/0
Router(config-if)#ip nat inside
Router(config-if)#exit
Router(config)#interface Serial10/0/0
Router(config-if)#ip nat outside
Router(config-if)#exit
Router(config)#ip nat pool MP 10.10.10.10
Router(config)#exit
Router(config)#interface Serial10/0/0
Router(config-if)#ip address 10.10.10.1 255.255.255.0
Router(config-if)#ip address 10.10.10.1 255.255.255.0
Router(config-if)#exit
Router(config)#ip nat pool MP 10.10.10.10 10.10.10.20 netmask 255.255.255.0
Router(config)#access-list 1 permit 192.168.190.1 0.0.0.255
Router(config)#ip nat inside source list 1 pool MP
Router(config)#exit
Router#
R315-S-CONFIG_1: Configured from console by console

Router#show ip nat translations
Router#show access-lists
Standard IP access list 1
 10 permit 192.168.190.0 0.0.0.255

Router#show ip nat translations
Pro Inside global      Inside local      Outside local      Outside global
icmp 10.10.10.10:10    192.168.190.3:10  10.10.10.3:10     10.10.10.3:10
icmp 10.10.10.10:3    192.168.190.3:3   10.10.10.3:3      10.10.10.3:3
icmp 10.10.10.10:4    192.168.190.3:4   10.10.10.3:4      10.10.10.3:4
icmp 10.10.10.10:6    192.168.190.3:6   10.10.10.3:6      10.10.10.3:6
icmp 10.10.10.10:7    192.168.190.3:7   10.10.10.3:7      10.10.10.3:7
icmp 10.10.10.10:8    192.168.190.3:8   10.10.10.3:8      10.10.10.3:8
icmp 10.10.10.10:9    192.168.190.3:9   10.10.10.3:9      10.10.10.3:9
```

Router#

Copy Paste

Simulation Panel

Time(sec)	Last Device	At Device
0.000	--	PC3
0.001	PC3	Switch1
0.002	Switch1	Router0
0.003	Router0	Router3
0.004	Router3	Server1
0.005	Server1	Router3
0.006	Router3	Router0
0.007	Router0	Switch1
0.008	Switch1	PC3
1.008	--	PC3
1.009	PC3	Switch1
1.010	Switch1	Router0
1.011	Router0	Router3
1.012	Router3	Server1

Visible Events

CP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, IPsec, ISAKMP, Icmp, Icmpv6, LACP, LLDP, NDP, NETFLOW, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RSCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, UDP, USB, VTP

Edit Filters Show All/None

Event List Realtime Simulation

Delete

Cisco Packet Tracer - C:\Users\hridh\Cisco Packet Tracer 8.2.2\saves\ybjbjbjkcdkf.pkt

File Edit Options View Tools Extensions Window Help

Logical Physical x: 988, y: 80

PDU Information at Device: Router0

OSI Model Inbound PDU Details Outbound PDU Details

PDU Formats

Ethernet II

0		4		8		12		16		20		24		28		32											
PREAMBLE: 101010...10																SF D		DEST ADDR: 00D0.FF89.3C									
																01											
SRC ADDR: 00D0.978A.14BC								TYPE: 0x0800				DATA (VARIABLE LENGTH)								FCS: 0x00000000							

IP

0		4		8		12		16		20		24		28		32			
VER: 4		IHL: 5		DSCP: 0x00		TL: 128													
ID: 0x000b								FLAGS: 0x0				FRAG OFFSET: 0x000							
TTL: 128								PRO: 0x01				CHKSUM							
SRC IP: 192.168.190.3																			
DST IP: 10.10.10.3																			
DATA (VARIABLE LENGTH)																			

ICMP

0		4		8		12		16		20		24		28		32	
TYPE: 0x08		CODE: 0x00															
CHECKSUM																	
ID: 0x0004																	
SEQ NUMBER: 3																	
Variable Size PDU																	
DATA (VARIABLE LENGTH)																	

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device
	0.000	--	PC3
	0.001	PC3	Switch1
	0.002	Switch1	Router0
	0.003	Router0	Router3
	0.004	Router3	Server1
	0.005	Server1	Router3
	0.006	Router3	Router0
	0.007	Router0	Switch1
	0.008	Switch1	PC3
	1.008	--	PC3
	1.009	PC3	Switch1
	1.010	Switch1	Router0
	1.011	Router0	Router3
	1.012	Router3	Server1

Snipping Tool

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Mark-up and share

Time: 00:33:45.985 PLAY CONTROLS

Scenario 0

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

Toggle PDU List Window

84°F Partly cloudy

Search

ENG IN 20:22 16-03-2025

Cisco Packet Tracer - C:\Users\hridh\Cisco Packet Tracer 8.2.2\saves\ybjbjbjkcdkf.pkt

File Edit Options View Tools Extensions Window Help

Logical Physical x: 1024, y: 63

PDU Information at Device: Router0

OSI Model Inbound PDU Details Outbound PDU Details

PDU Formats

Ethernet II

0		4		8		12		16		20		24		28		32											
PREAMBLE: 101010...10																SF D		DEST ADDR: 00D0.FF89.3C									
																01											
SRC ADDR: 00D0.978A.14BC								TYPE: 0x0800				DATA (VARIABLE LENGTH)								FCS: 0x00000000							

IP

0		4		8		12		16		20		24		28		32			
VER: 4		IHL: 5		DSCP: 0x00		TL: 128													
ID: 0x000b								FLAGS: 0x0				FRAG OFFSET: 0x000							
TTL: 127								PRO: 0x01				CHKSUM							
SRC IP: 10.10.10.10																			
DST IP: 10.10.10.3																			
DATA (VARIABLE LENGTH)																			

ICMP

0		4		8		12		16		20		24		28		32	
TYPE: 0x08		CODE: 0x00															
CHECKSUM																	
ID: 0x0004																	
SEQ NUMBER: 3																	
Variable Size PDU																	
DATA (VARIABLE LENGTH)																	

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device
	0.000	--	PC3
	0.001	PC3	Switch1
	0.002	Switch1	Router0
	0.003	Router0	Router3
	0.004	Router3	Server1
	0.005	Server1	Router3
	0.006	Router3	Router0
	0.007	Router0	Switch1
	0.008	Switch1	PC3
	1.008	--	PC3
	1.009	PC3	Switch1
	1.010	Switch1	Router0
	1.011	Router0	Router3
	1.012	Router3	Server1

Reset Simulation Constant Delay Captured to: 1.012 s

Play Controls

Event List Filters - Visible Events

ACL Filter ARP BGP Bluetooth CAPWAP CDP DHCP DHCPv6 DNS DTCP EAPOL EIGRP EIGRPv6 FTP H.323 HSRP HSRPv6 HTTP HTTPS ICMP ICMPv6 IPsec ISAKMP IoT IoT TCP LACP LLDP NDR NETFLOW NTP OSPF OSPFv6 PAgP POP3 PPP PPPv6 PTP RADIUS REP RIP RIPv2 RIPv3 RIPv6 SMTP SNMP SSH STP SYSLOG TACACS TCP TFTP Telnet UDP USB VTP

Edit Filters Show All/None

Event List Realtime Simulation

Time: 00:33:45.985 PLAY CONTROLS

Scenario 0

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

Toggle PDU List Window

84°F Partly cloudy

Search

ENG IN 20:22 16-03-2025

Cisco Packet Tracer - C:\Users\hridh\Cisco Packet Tracer 8.2.2\saves\ybjybjkcdkf.pkt

File Edit Options View Tools Extensions Window Help

Logical Physical 1384 x 573

PC3

Physical Config Desktop Programming Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 10.10.10.3

Pinging 10.10.10.3 with 32 bytes of data:
Reply from 10.10.10.3: bytes=32 time=0ms TTL=126
Reply from 10.10.10.3: bytes=32 time=0ms TTL=126
Reply from 10.10.10.3: bytes=32 time=0ms TTL=126
Reply from 10.10.10.3: bytes=32 time=16ms TTL=126

Ping statistics for 10.10.10.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 16ms, Average = 20ms

C:\>
```

1941 Router

PC-PT PC2

PC-PT PC3

Switch1

Time: 00:33:52

Realtime Simulation

84°F Partly cloudy

Search

ENG IN 2023 16-03-2025