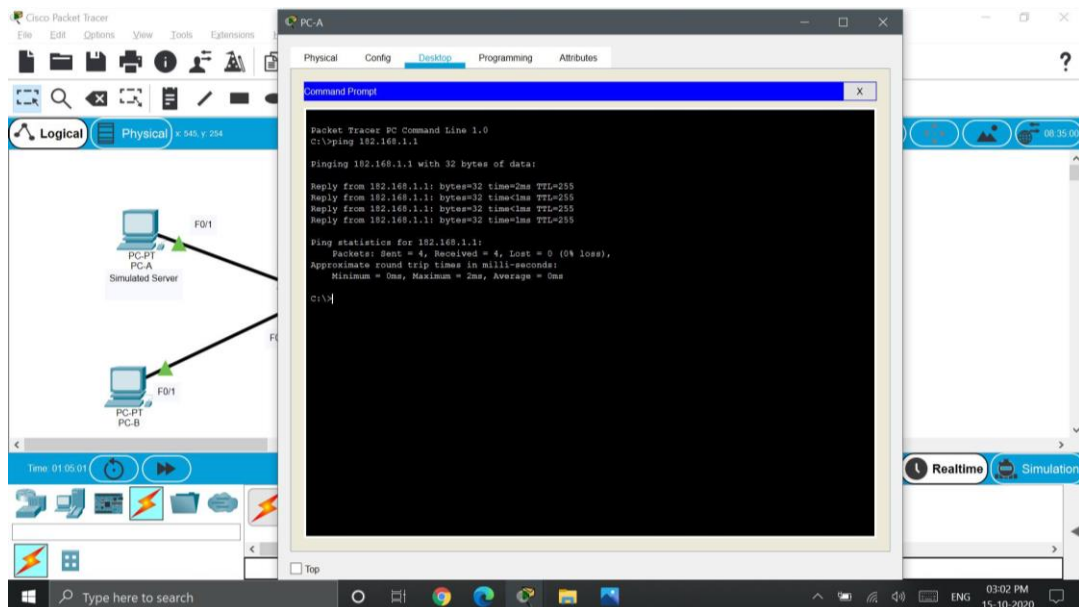
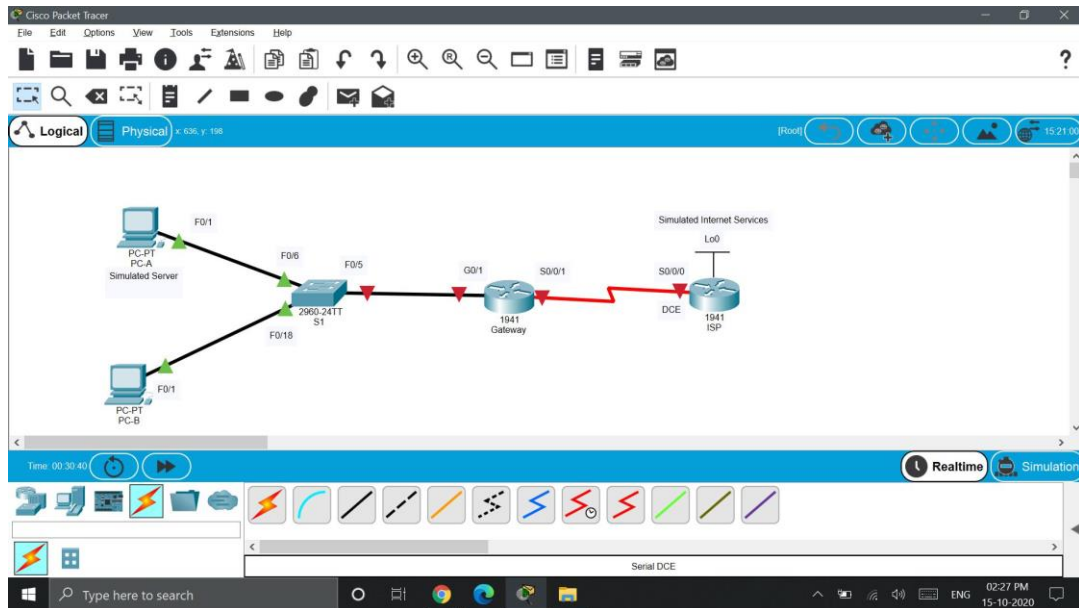
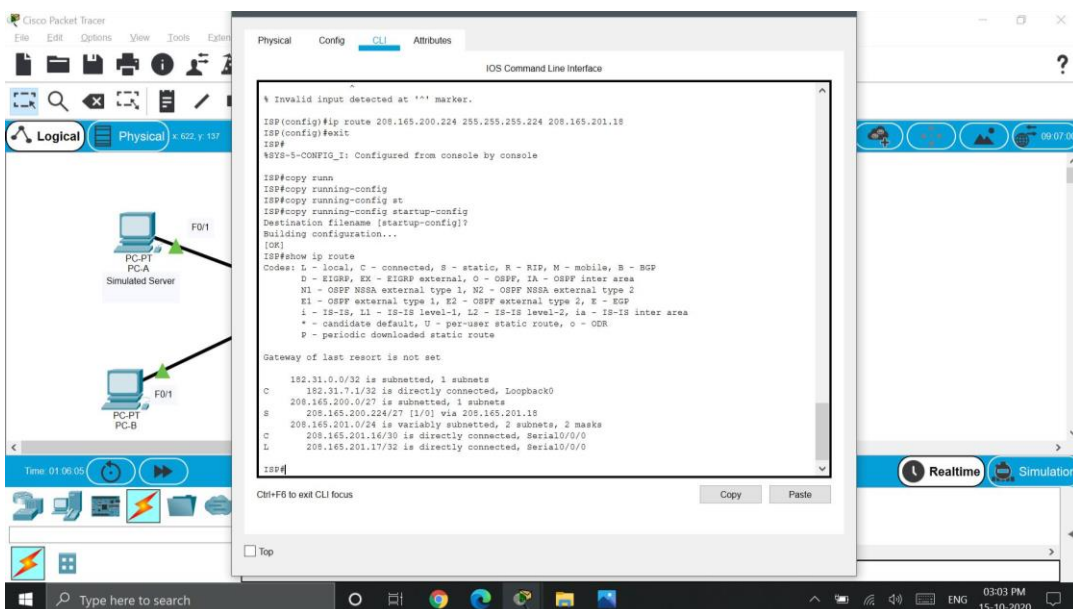
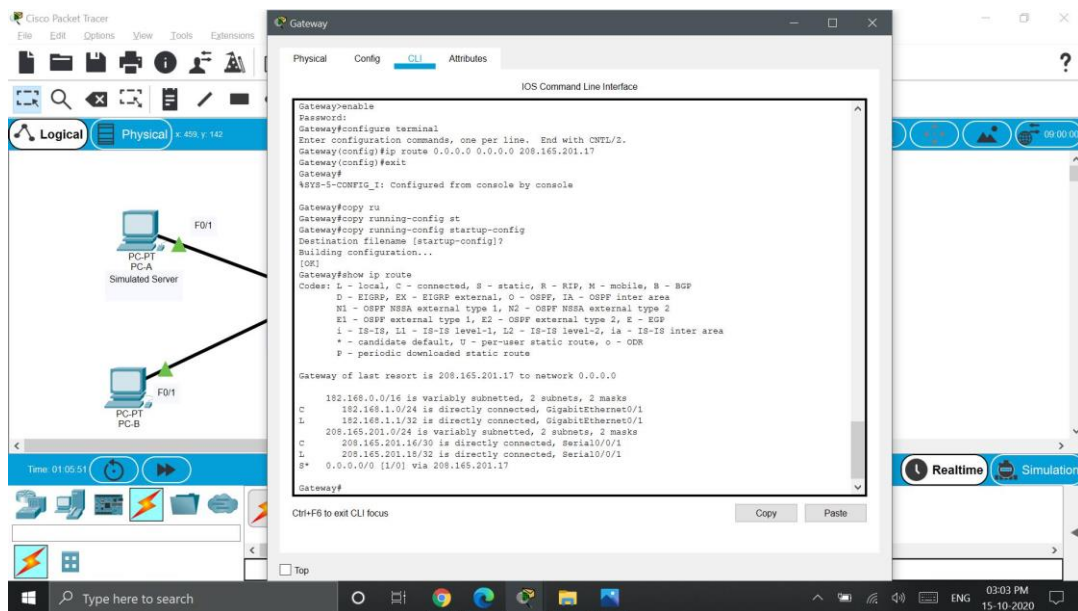
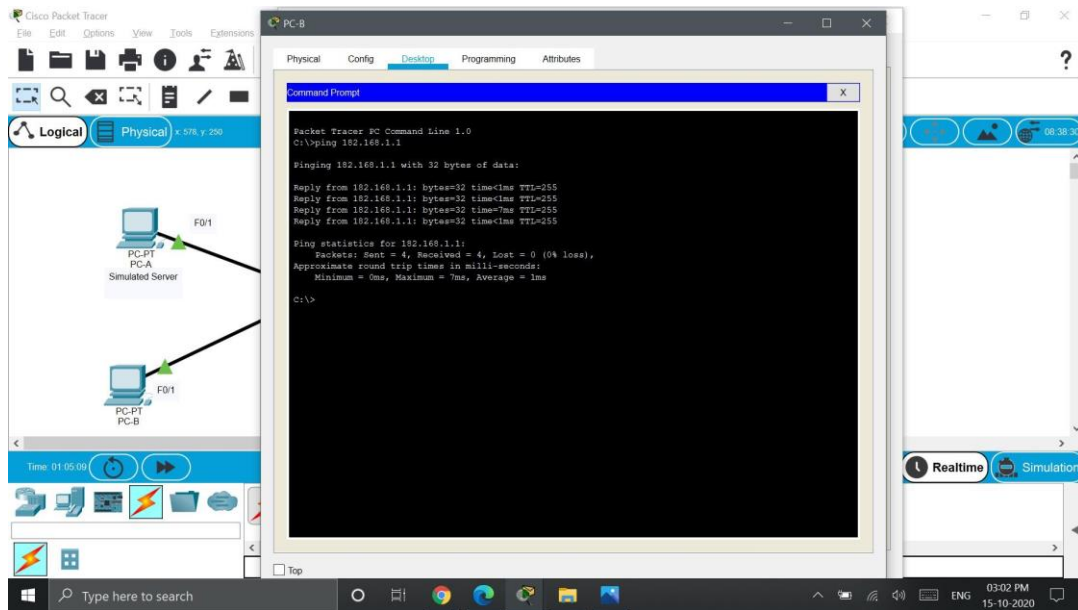


Yash Shah - 2018130049
Sarika Singh - 2018130053
Yug Vajani - 2018130059

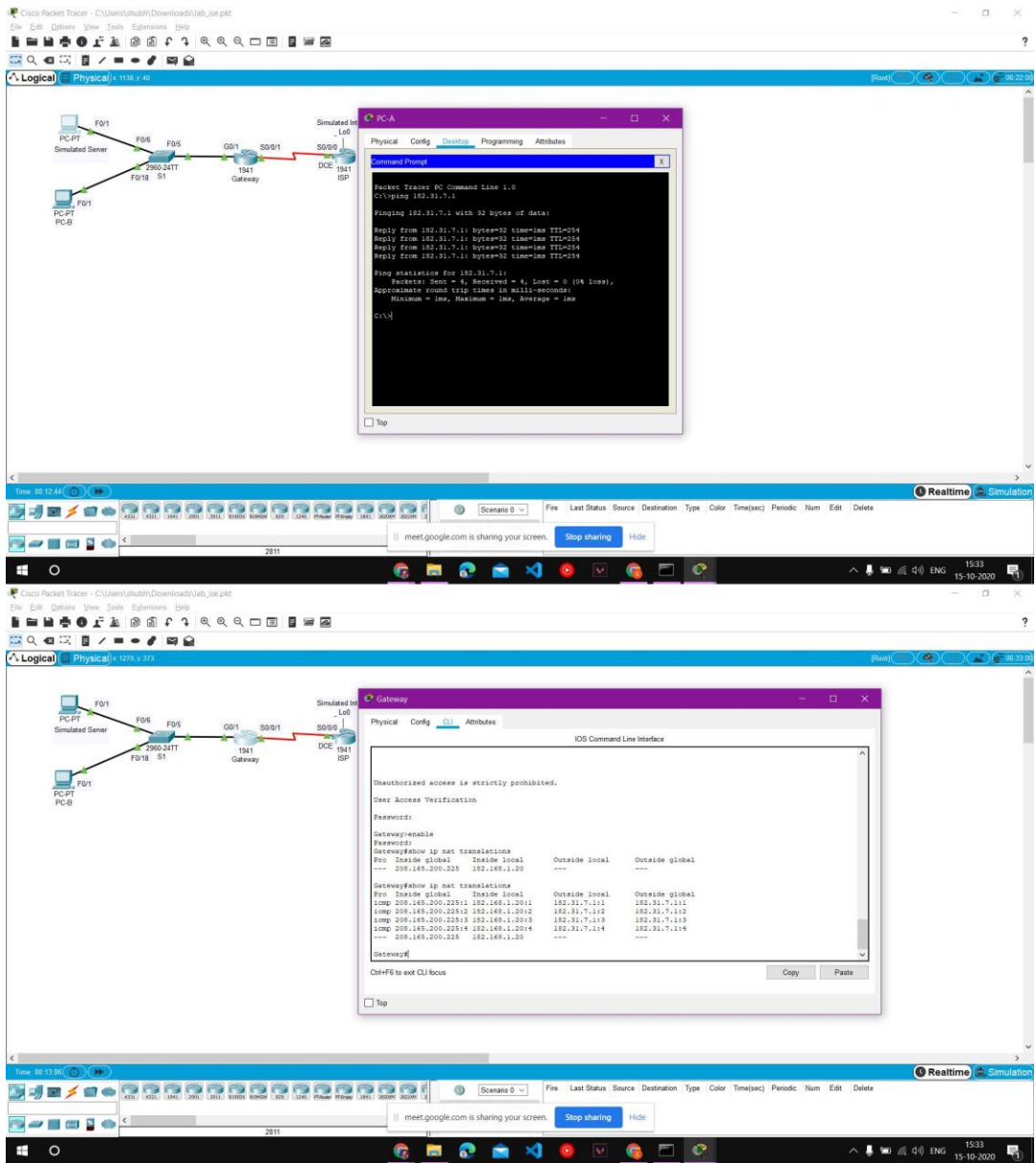
DCCN ISE 2

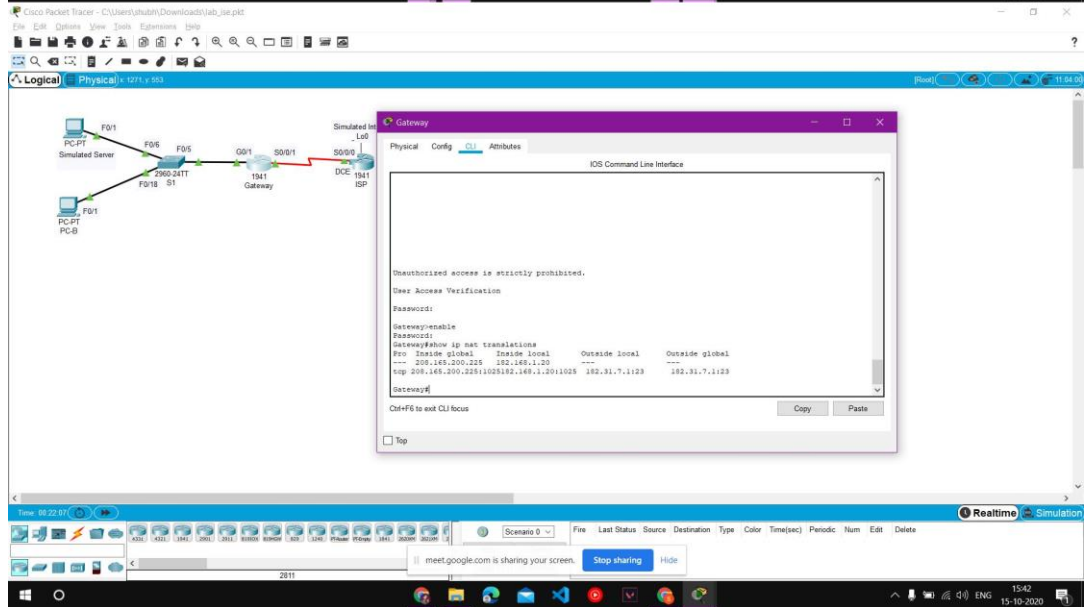
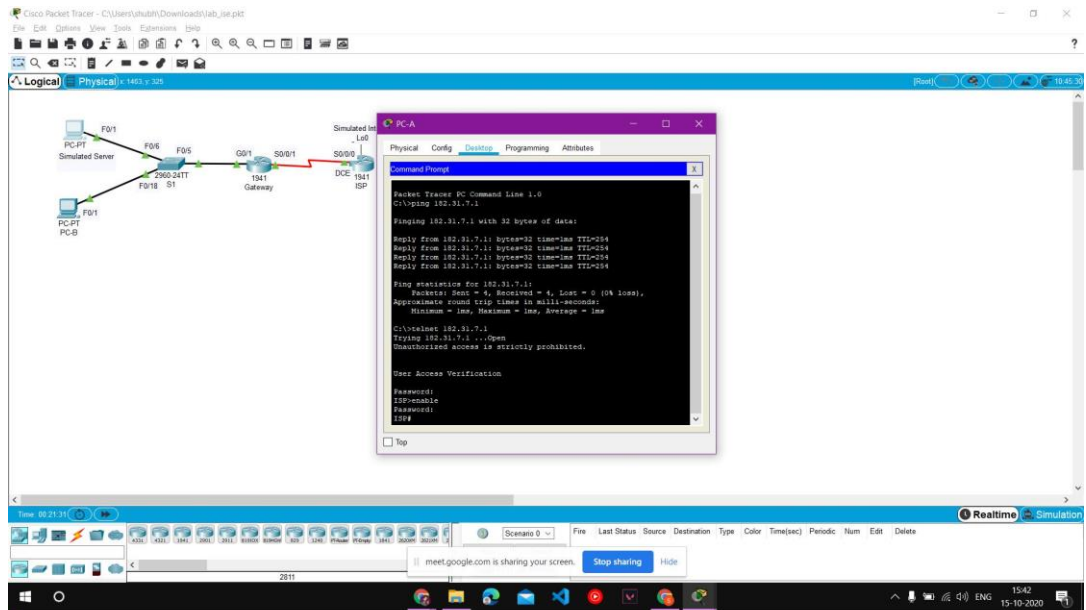
Task 1

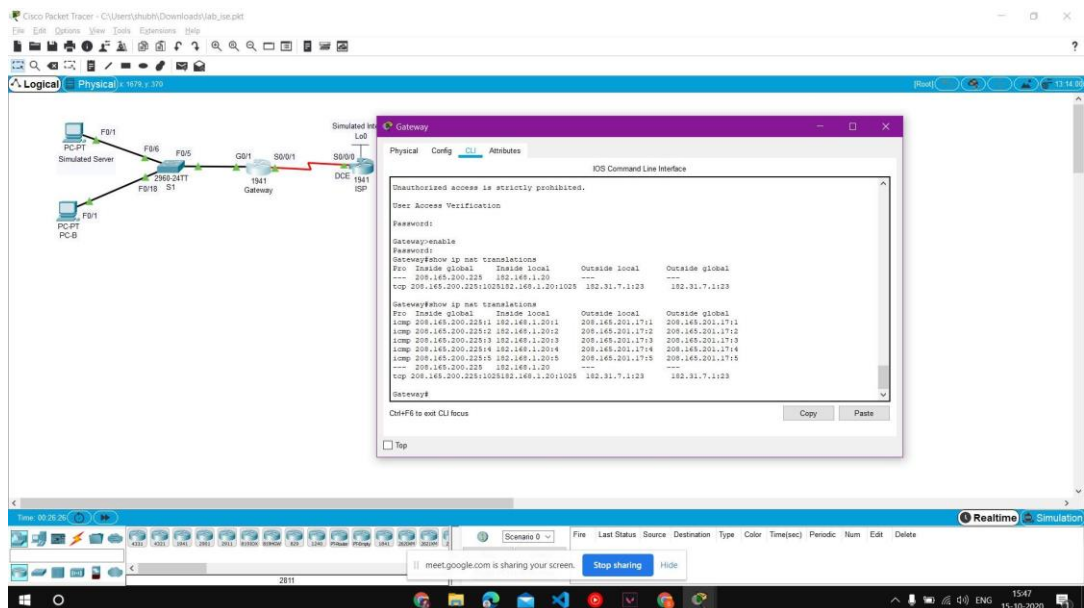
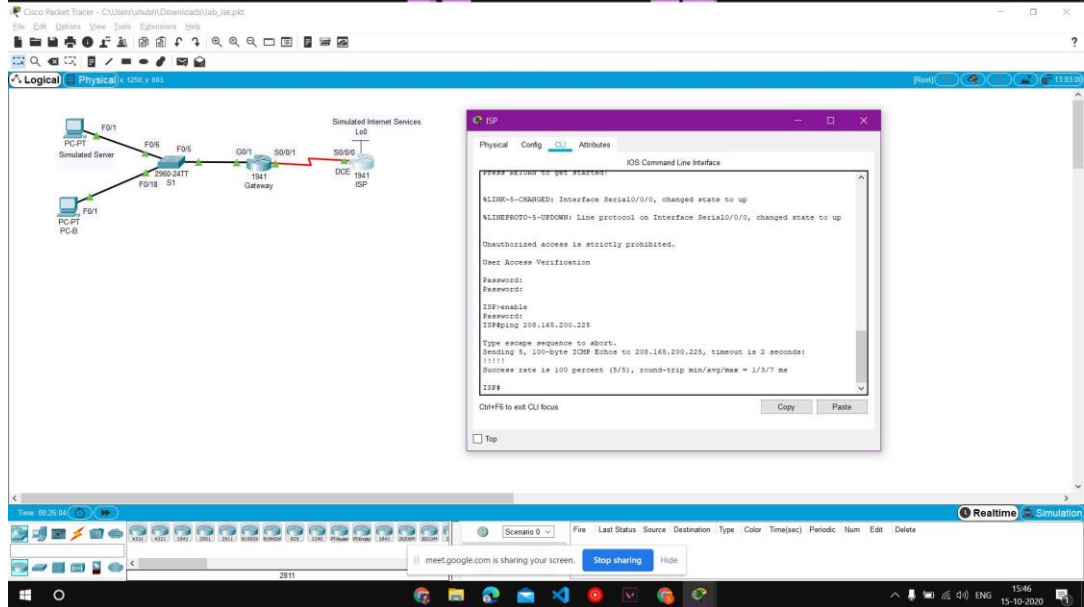




Task 2







Task 3

The image displays two screenshots of the Cisco Packet Tracer interface, showing a network configuration for NAT. The network topology includes a Simulated Server (F0/1), a 2960-24TT switch (F0/6, F0/18), a 1941 Gateway router (G0/1, S0/0/1), and a PC-B (F0/1). The Gateway router is configured with NAT to translate internal IP addresses to a public IP address.

Top Screenshot: Initial Configuration

```
Gateway#
Gateway#show ip nat statistics
Total translations: 1 (1 static, 0 dynamic, 0 extended)
Outside interface: Serial0/0/1
Inside interface: GigabitEthernet0/1
Hits: 77 Misses: 20
Expired translations: 0
Dynamic mappings:
Gateway#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Gateway(config)#ip nat pool public_access 209.165.200.242 209.165.200.254 netmask
255.255.255.224
Gateway(config)#ip nat inside source list 1 pool public_access
Gateway(config)#exit
Gateway#
Gateway#show ip nat translations
Pro Inside global      Inside local      Outside local      Outside global
---
comp 209.165.200.242/32 192.168.1.21/32    192.31.7.111       192.31.7.111
comp 209.165.200.242/32 192.168.1.21/32    192.31.7.112       192.31.7.112
comp 209.165.200.242/32 192.168.1.21/32    192.31.7.113       192.31.7.113
comp 209.165.200.242/32 192.168.1.21/32    192.31.7.114       192.31.7.114
---
209.165.200.225      192.168.1.20      ---                ---
```

Bottom Screenshot: Final Configuration

```
Gateway#
Gateway#show ip nat statistics
Total translations: 1 (1 static, 0 dynamic, 0 extended)
Outside interface: Serial0/0/1
Inside interface: GigabitEthernet0/1
Hits: 77 Misses: 20
Expired translations: 0
Dynamic mappings:
Gateway#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Gateway(config)#ip nat pool public_access 209.165.200.242 209.165.200.254 netmask
255.255.255.224
Gateway(config)#ip nat inside source list 1 pool public_access
Gateway(config)#exit
Gateway#
Gateway#show ip nat translations
Pro Inside global      Inside local      Outside local      Outside global
---
comp 209.165.200.242/32 192.168.1.21/32    192.31.7.111       192.31.7.111
comp 209.165.200.242/32 192.168.1.21/32    192.31.7.112       192.31.7.112
comp 209.165.200.242/32 192.168.1.21/32    192.31.7.113       192.31.7.113
comp 209.165.200.242/32 192.168.1.21/32    192.31.7.114       192.31.7.114
---
209.165.200.225      192.168.1.20      ---                ---
```

Cisco Packet Tracer - C:\Users\yuhah\Downloads\lab_ise.pkt

File Edit Options View Tools Experiment Help

Logical Physical x 1942 x 376

Physical Config Desktop Programming Attributes

Command Prompt

Packet Tracer PC Command Line 1.0

C:\>ping 192.31.7.1

Pinging 192.31.7.1 with 32 bytes of data:

Reply from 192.31.7.1: bytes=32 time=1ms TTL=254

Reply from 192.31.7.1: bytes=32 time=1ms TTL=254

Reply from 192.31.7.1: bytes=32 time=1ms TTL=254

Reply from 192.31.7.1: bytes=32 time=1ms TTL=254

Ping statistics for 192.31.7.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 1ms, Maximum = 1ms, Average = 1ms

C:\>

Time 00:54:04

Realtime Simulation

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28200M

15:14 15-10-2020

Cisco Packet Tracer - C:\Users\yuhah\Downloads\lab_ise.pkt

File Edit Options View Tools Experiment Help

Logical Physical x 1926 x 642

Physical Config CLI Attributes

IOS Command Line Interface

Gateway#show ip nat translations

Pro	Inside global	Inside local	Outside local	Outside global
icmp	200.145.200.242:1	192.168.1.21:1	192.31.7.1:1	192.31.7.1:1
icmp	200.145.200.242:2	192.168.1.21:2	192.31.7.1:2	192.31.7.1:2
icmp	200.145.200.242:3	192.168.1.21:3	192.31.7.1:3	192.31.7.1:3
icmp	200.145.200.242:4	192.168.1.21:4	192.31.7.1:4	192.31.7.1:4
----	200.145.200.225	192.168.1.20	----	----

Gateway#show ip nat statistics

% Invalid input detected at '^' marker.

Gateway#show ip nat statistics

Total translations: 4 (1 static, 3 dynamic, 3 extended)

Outside interface: Serial0/0/1

Inside interface: GigabitEthernet0/1

Hits: 129 Misses: 34

Expired translations: 15

Dynamic mappings:

```

-- Inside Source
access-list 1 pool public_address refCount 3
pool public_address netmask 255.255.255.254
static 200.145.200.242 and 200.145.200.254
type generic, total addresses 13, allocated 1 (7%), misses 0
Gateway#
  
```

Ctrl+F6 to exit CLI focus

Copy Paste

Time 01:01:46

Realtime Simulation

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28200M

16:22 15-10-2020

Cisco Packet Tracer - C:\Users\yuhuah\Downloads\lab_08.pkt

File Edit Options View Tools Experiments Help

Logical Physical x 1687 x 373

Physical

PC-PT Simulated Server F0/1 F0/6 F0/5 2960-24TT F0/18 S1 Gateway 1941 G0/1 S0/0/1 S0/0/0 DCE 1941 ISP

Gateway

Physical Config CLI Attributes

IOS Command Line Interface

```
Gateway#show ip nat statistics
Total translations: 4 (1 static, 3 dynamic, 0 extended)
Outside interfaces: Serial0/0/1
Inside interfaces: GigabitEthernet0/1
Hits: 133 Misses: 34
Expired translations: 15
Dynamic mappings:
-- Inside Source
access-list 1 pool public_access refcount 3
pool public_access netmask 255.255.255.254
start 208.165.200.242 end 208.165.200.254
type generic, total addresses 13, allocated 1 (7%), misses 0
Gateway#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Gateway(config)#ip nat inside source static 182.168.1.20 208.165.200.225
Gateway(config)#exit ip nat translations *
% Invalid input detected at '^' marker.
Gateway(config)#exit
Gateway#
NATF0-CONF0_1: Configured from console by console
Gateway#clear ip nat translation *
ClearF0 to end CLI focus
```

Time: 51:16:48

Realtime Simulation

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28210M

16:37 15-10-2020

Cisco Packet Tracer - C:\Users\yuhuah\Downloads\lab_08.pkt

File Edit Options View Tools Experiments Help

Logical Physical x 1616 x 353

Physical

PC-PT Simulated Server F0/1 F0/6 F0/5 2960-24TT F0/18 S1 Gateway 1941 G0/1 S0/0/1 S0/0/0 DCE 1941 ISP

Gateway

Physical Config CLI Attributes

IOS Command Line Interface

```
Gateway#show ip nat statistics
Total translations: 1 (1 static, 0 dynamic, 0 extended)
Outside interfaces: Serial0/0/1
Inside interfaces: GigabitEthernet0/1
Hits: 77 Misses: 10
Expired translations: 5
Dynamic mappings:
-- Inside Source
access-list 1 pool public_access refcount 3
pool public_access netmask 255.255.255.254
start 208.165.200.242 end 208.165.200.254
type generic, total addresses 13, allocated 1 (7%), misses 0
Gateway#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Gateway(config)#ip nat pool public_access 208.165.200.242 208.165.200.254 netmask 255.255.255.254
Gateway(config)#ip nat inside source list 1 pool public_access
Gateway(config)#exit
Gateway#
NATF0-CONF0_1: Configured from console by console
Gateway#
Gateway#show ip nat translations
Pro Inside global Inside local Outside local Outside global
icmp 208.165.200.242:1 182.168.1.12:11 182.31.7.1:11 182.31.7.1:11
icmp 208.165.200.242:2 182.168.1.12:12 182.31.7.1:12 182.31.7.1:12
icmp 208.165.200.242:3 182.168.1.12:13 182.31.7.1:13 182.31.7.1:13
icmp 208.165.200.242:4 182.168.1.12:14 182.31.7.1:14 182.31.7.1:14
--- 208.165.200.225 182.168.1.20 --- ---
ClearF0 to end CLI focus
```

Time: 51:16:58

Realtime Simulation

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16:37 15-10-2020