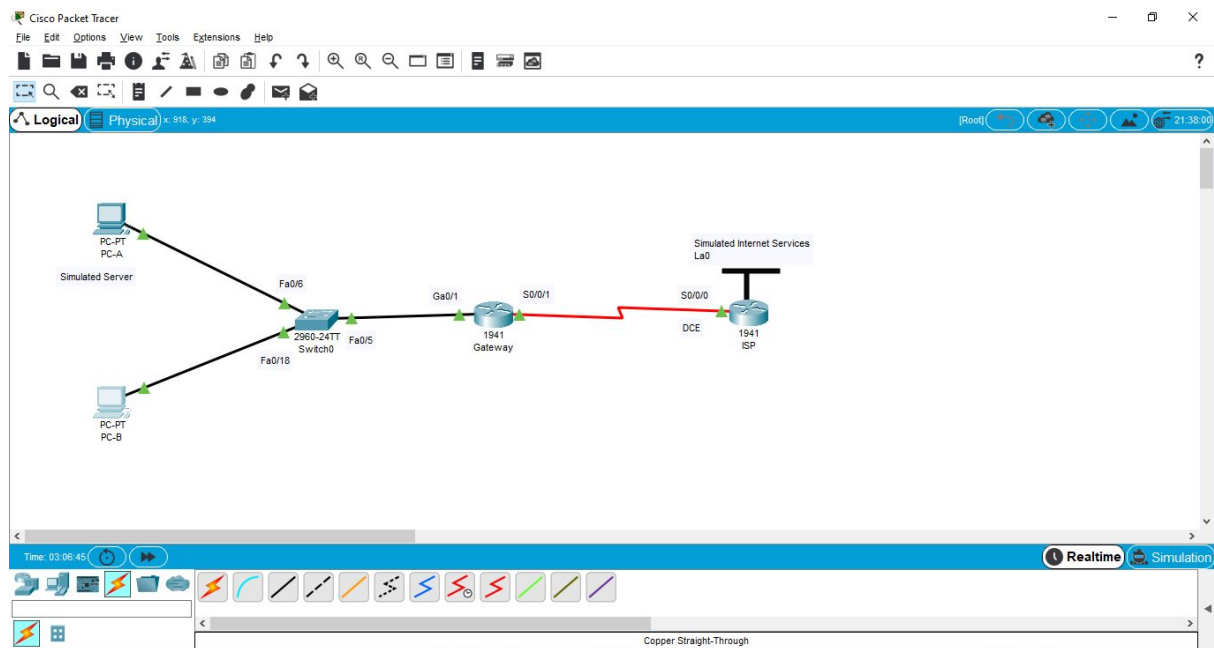


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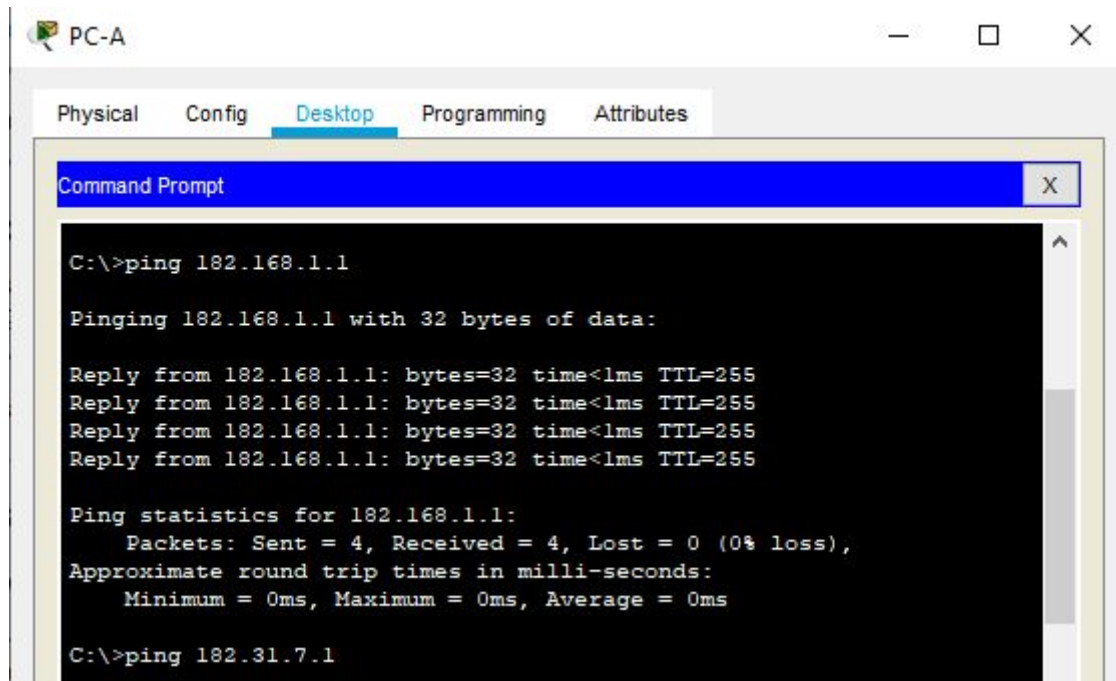
ISE2 – Configuring Dynamic and Static NAT Topology

Task 1 :

Network Topology



PING from PC-A to Gateway:



The screenshot shows a Packet Tracer window for PC-A. The 'Desktop' tab is selected, displaying a Command Prompt. The Command Prompt shows the execution of two ping commands. The first command is 'ping 182.168.1.1', which results in four successful replies from 182.168.1.1 with 32 bytes of data, each taking less than 1ms and having a TTL of 255. The ping statistics for 182.168.1.1 show 4 packets sent, 4 received, 0 lost (0% loss), and approximate round trip times of 0ms. The second command is 'ping 182.31.7.1'.

```
C:\>ping 182.168.1.1

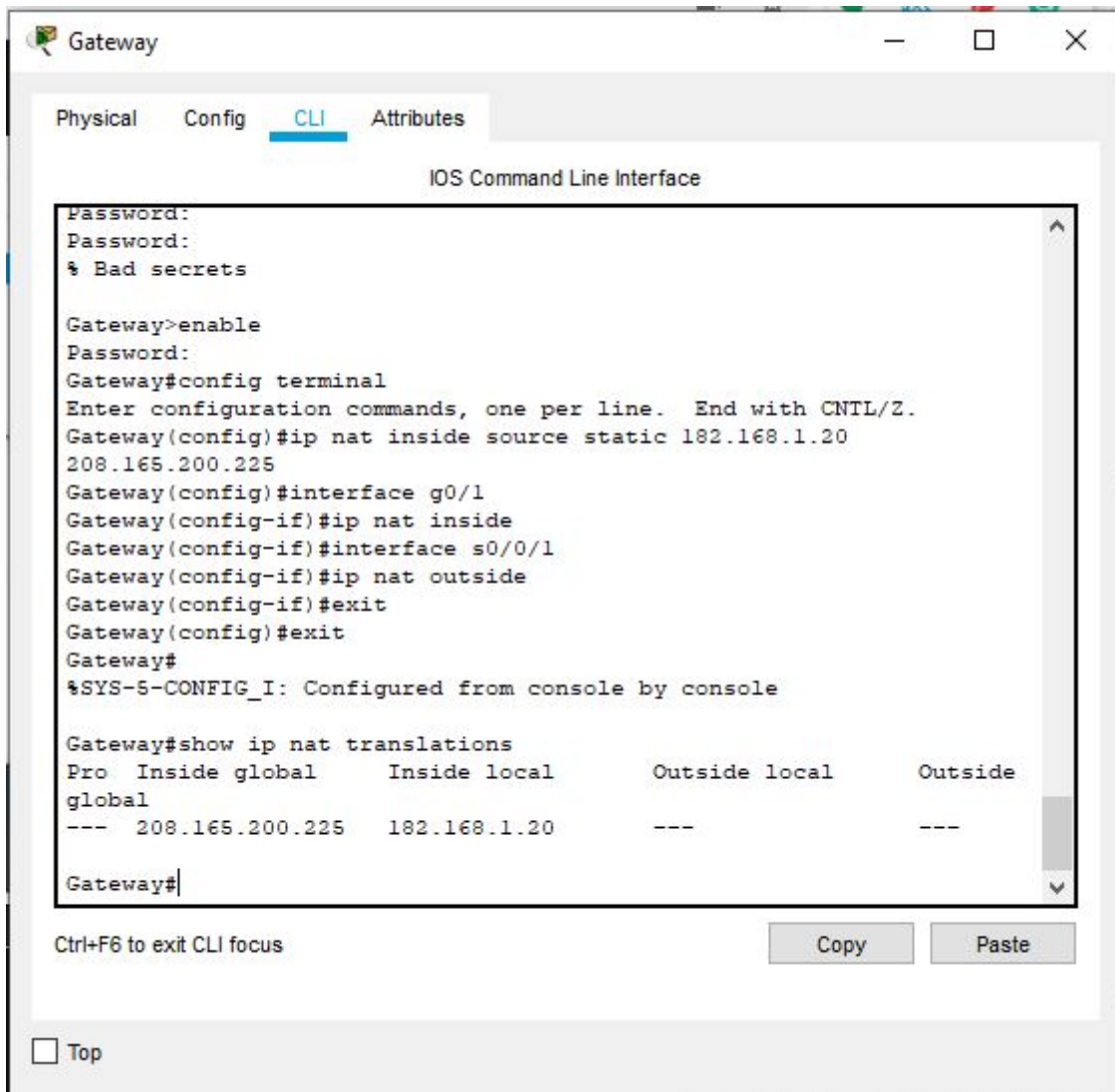
Pinging 182.168.1.1 with 32 bytes of data:

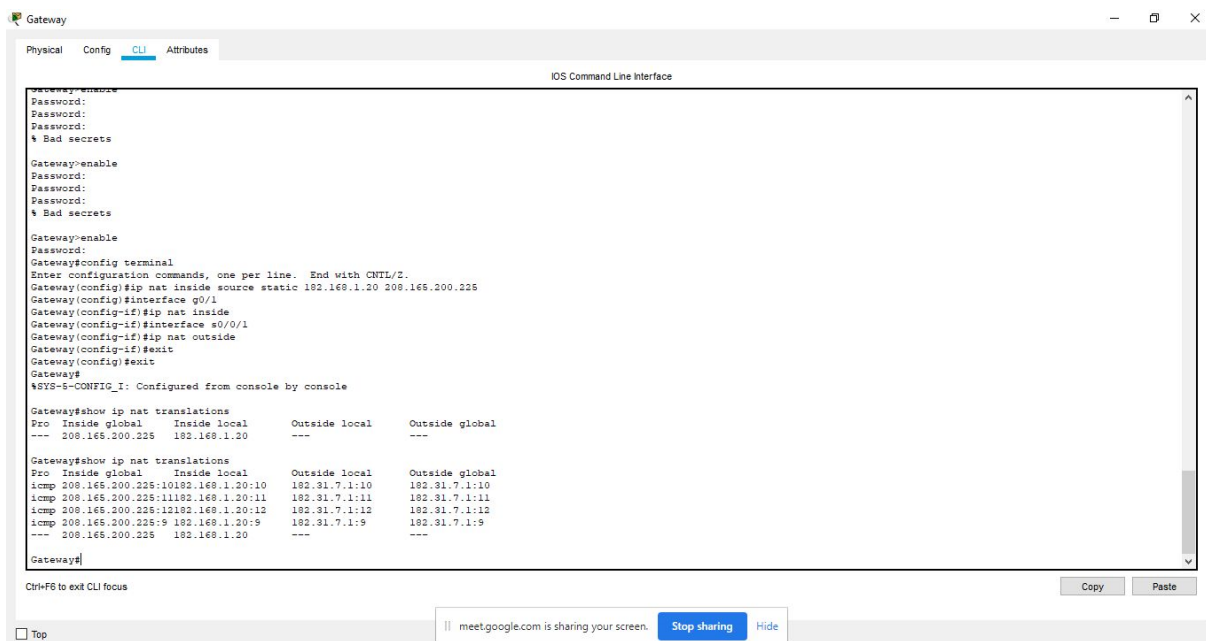
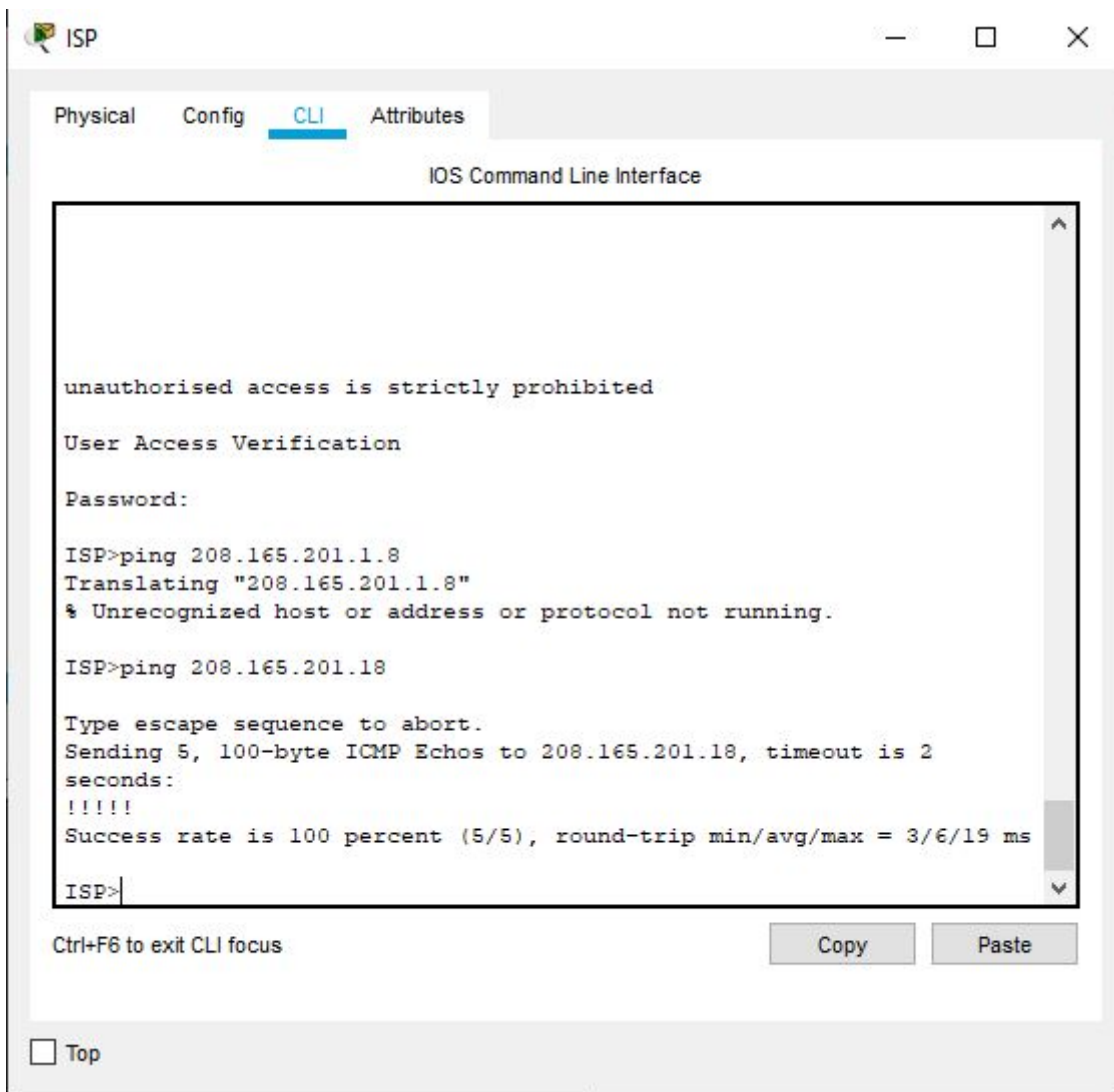
Reply from 182.168.1.1: bytes=32 time<1ms TTL=255
Reply from 182.168.1.1: bytes=32 time<1ms TTL=255
Reply from 182.168.1.1: bytes=32 time<1ms TTL=255
Reply from 182.168.1.1: bytes=32 time<1ms TTL=255

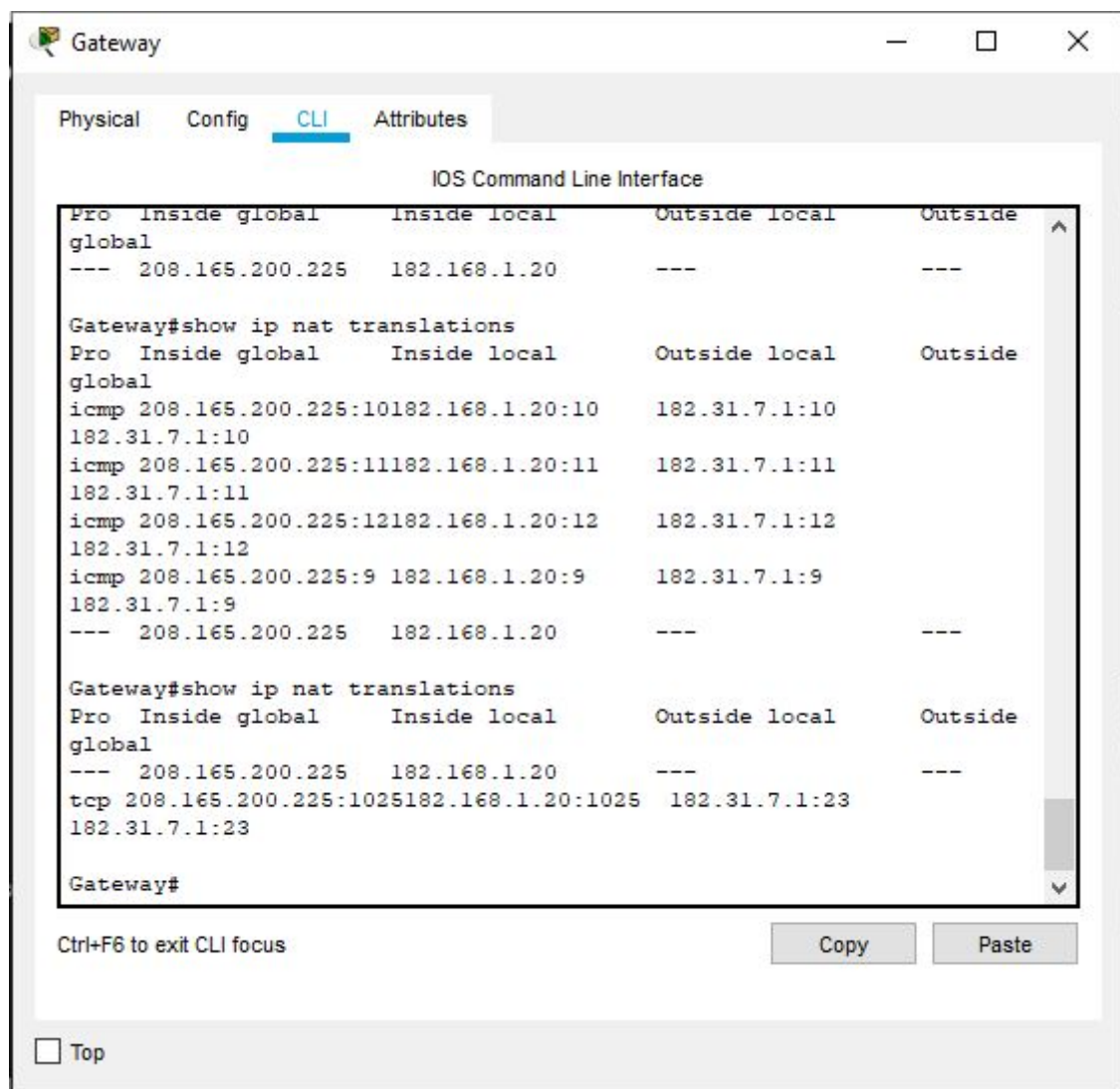
Ping statistics for 182.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 182.31.7.1
```

Task 2 STATIC NAT :







Dynamic NAT :

```

Gateway#clear ip nat translation *
Gateway#clear ip nat statistics
^
% Invalid input detected at '^' marker.

```

```

Gateway(config)#access-list 1 permit 182.168.1.0 0.0.0.255
Gateway(config)#show ip nat statistics

```

```

Gateway(config)#ip nat pool public_access 208.165.200.242 208.165.200.254 netmask 255.255.255.224
Gateway(config)#ip nat inside source list 1 pool public_access
Gateway(config)#exit

```

```

Gateway#show ip nat translations
Pro  Inside global      Inside local      Outside local      Outside global
---  208.165.200.225      182.168.1.20      ---                ---

Gateway#show ip nat statistics
Total translations: 3 (1 static, 2 dynamic, 2 extended)
Outside Interfaces: Serial0/0/1
Inside Interfaces: GigabitEthernet0/1
Hits: 89 Misses: 53
Expired translations: 18
Dynamic mappings:
-- Inside Source
access-list 1 pool public_access refCount 2
pool public_access: netmask 255.255.255.224
start 208.165.200.242 end 208.165.200.254
type generic, total addresses 13 , allocated 1 (7%), misses 0

```

```

Gateway#show ip nat translations
Pro  Inside global      Inside local      Outside local      Outside global
icmp 208.165.200.242:13 182.168.1.20:13  182.31.7.1:13     182.31.7.1:13
icmp 208.165.200.242:14 182.168.1.20:14  182.31.7.1:14     182.31.7.1:14
icmp 208.165.200.242:15 182.168.1.20:15  182.31.7.1:15     182.31.7.1:15
icmp 208.165.200.242:16 182.168.1.20:16  182.31.7.1:16     182.31.7.1:16
icmp 208.165.200.243:13 182.168.1.21:13  182.31.7.1:13     182.31.7.1:13
icmp 208.165.200.243:14 182.168.1.21:14  182.31.7.1:14     182.31.7.1:14
icmp 208.165.200.243:15 182.168.1.21:15  182.31.7.1:15     182.31.7.1:15
icmp 208.165.200.243:16 182.168.1.21:16  182.31.7.1:16     182.31.7.1:16

Gateway#show ip nat statistics
Total translations: 4 (0 static, 4 dynamic, 4 extended)
Outside Interfaces: Serial0/0/1
Inside Interfaces: GigabitEthernet0/1
Hits: 97 Misses: 61
Expired translations: 23
Dynamic mappings:
-- Inside Source
access-list 1 pool public_access refCount 4
pool public_access: netmask 255.255.255.224
start 208.165.200.242 end 208.165.200.254
type generic, total addresses 13 , allocated 1 (7%), misses 0
Gateway#

```

```
C:\>ping 182.31.7.1
```

```
Pinging 182.31.7.1 with 32 bytes of data:
```

```

Reply from 182.31.7.1: bytes=32 time=1ms TTL=254
Reply from 182.31.7.1: bytes=32 time=1ms TTL=254
Reply from 182.31.7.1: bytes=32 time=4ms TTL=254
Reply from 182.31.7.1: bytes=32 time=6ms TTL=254

```

```
Ping statistics for 182.31.7.1:
```

```

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 1ms, Maximum = 6ms, Average = 3ms

```