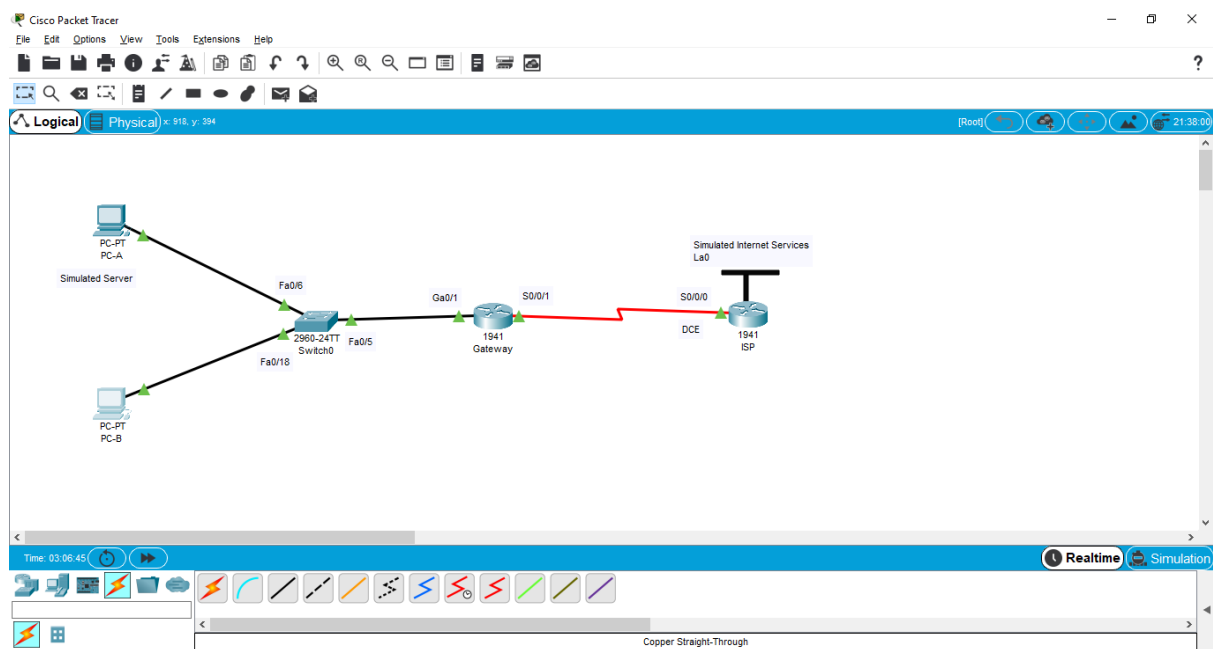


Group 5
Jiten Sidhpura 57
Trusha Talati 60
Rudresh Veerkhare 66

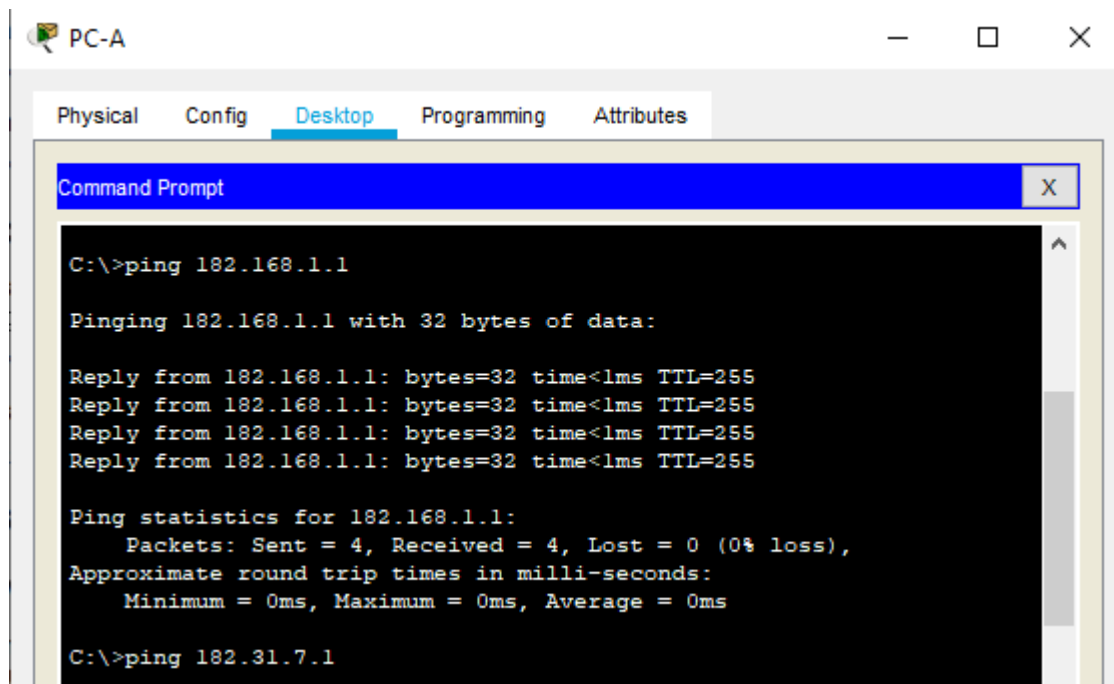
ISE2 – Configuring Dynamic and Static NAT Topology

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' window. The command prompt shows the execution of a ping command to the IP address 182.168.1.1. The output indicates that the ping was successful, with 4 packets sent and received, and 0% loss. The round trip times are all 0ms.

```
C:\>ping 182.168.1.1

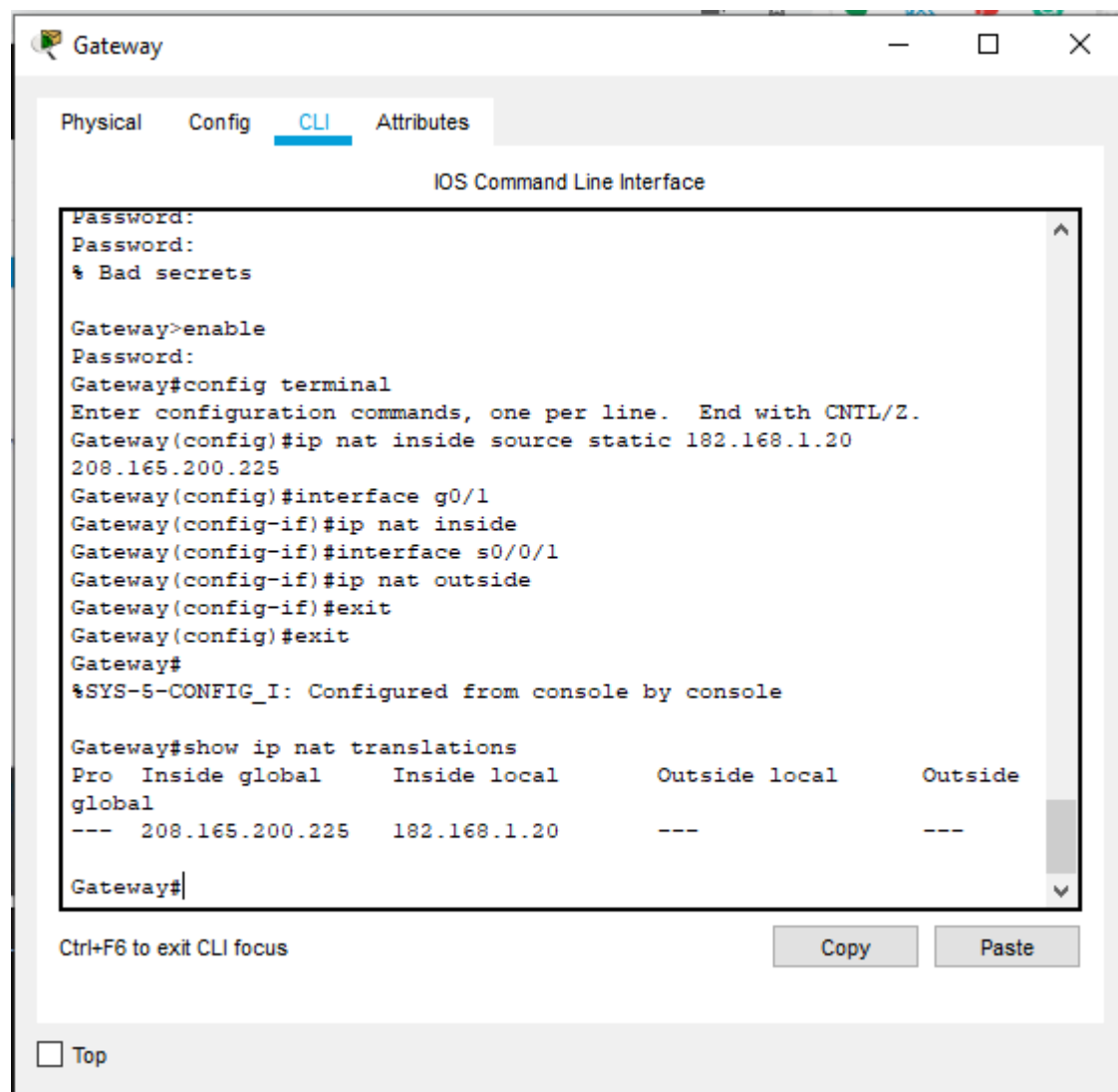
Pinging 182.168.1.1 with 32 bytes of data:

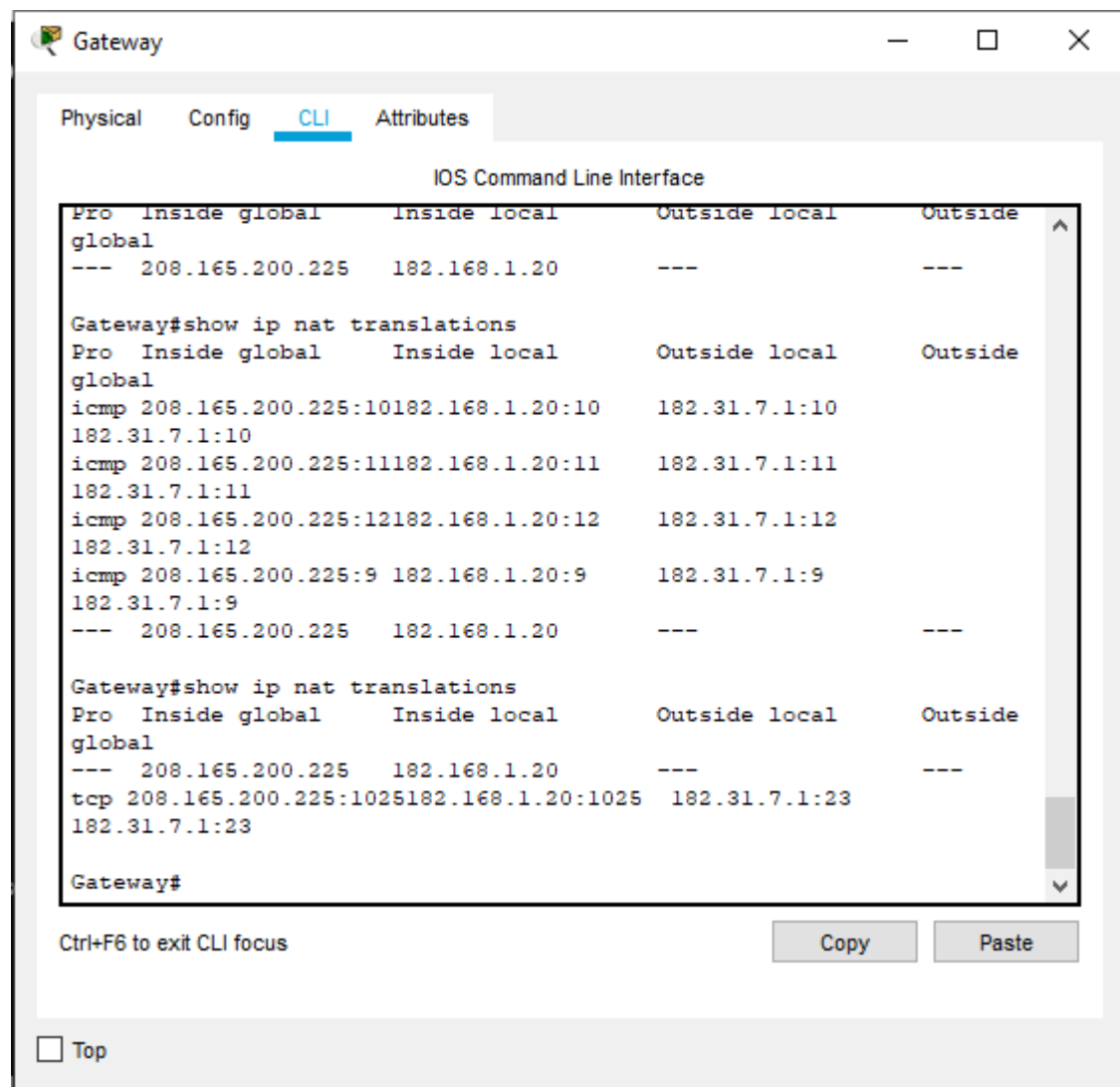
Reply from 182.168.1.1: bytes=32 time<1ms TTL=255
Reply from 182.168.1.1: bytes=32 time<1ms TTL=255
Reply from 182.168.1.1: bytes=32 time<1ms TTL=255
Reply from 182.168.1.1: bytes=32 time<1ms TTL=255

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 208.165.200.242:13182.168.1.20:13  182.31.7.1:13    182.31.7.1:13
icmp 208.165.200.242:14182.168.1.20:14  182.31.7.1:14    182.31.7.1:14
icmp 208.165.200.242:15182.168.1.20:15  182.31.7.1:15    182.31.7.1:15
icmp 208.165.200.242:16182.168.1.20:16  182.31.7.1:16    182.31.7.1:16
icmp 208.165.200.243:13182.168.1.21:13  182.31.7.1:13    182.31.7.1:13
icmp 208.165.200.243:14182.168.1.21:14  182.31.7.1:14    182.31.7.1:14
icmp 208.165.200.243:15182.168.1.21:15  182.31.7.1:15    182.31.7.1:15
icmp 208.165.200.243:16182.168.1.21:16  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

```