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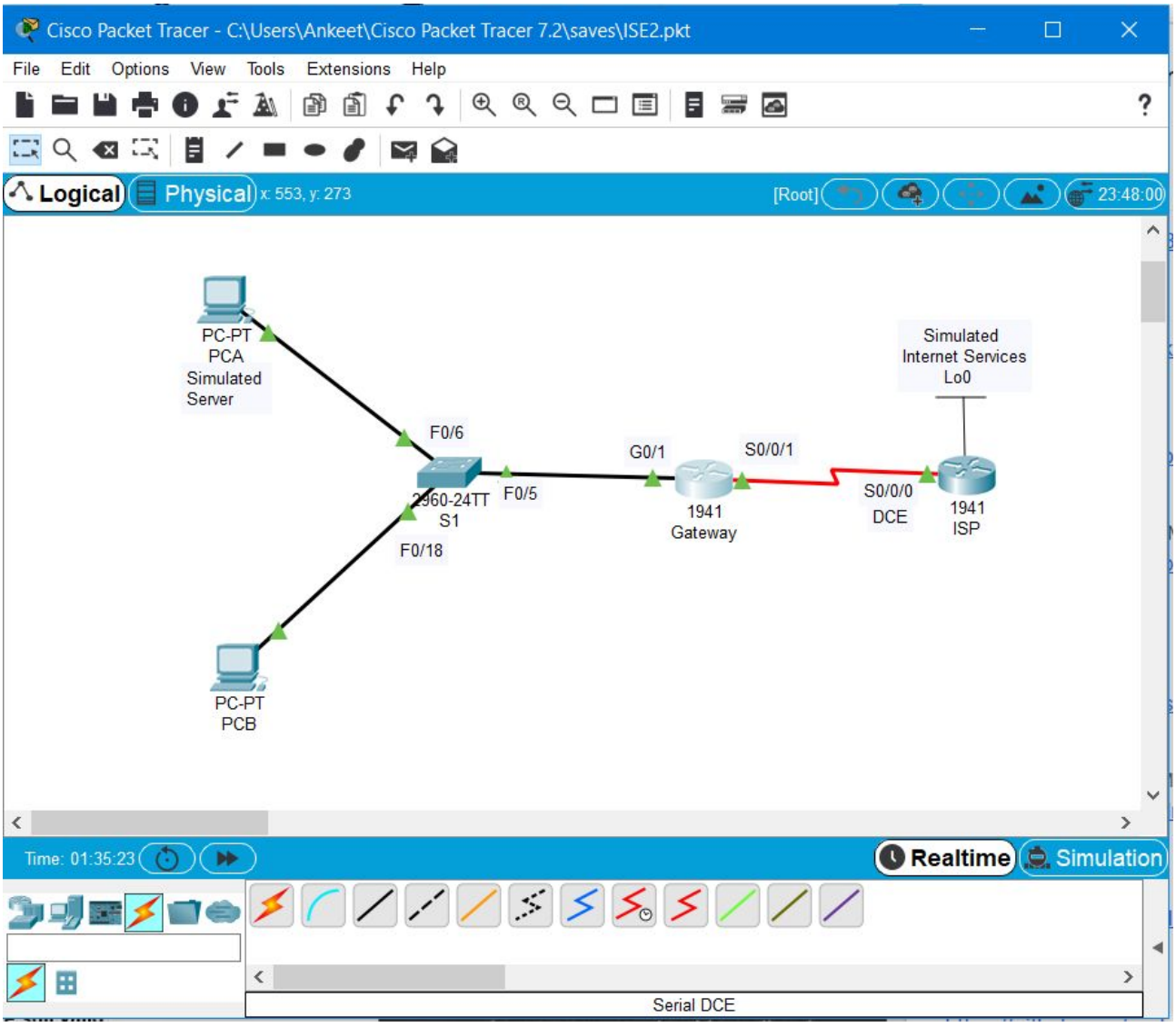
TE COMPS

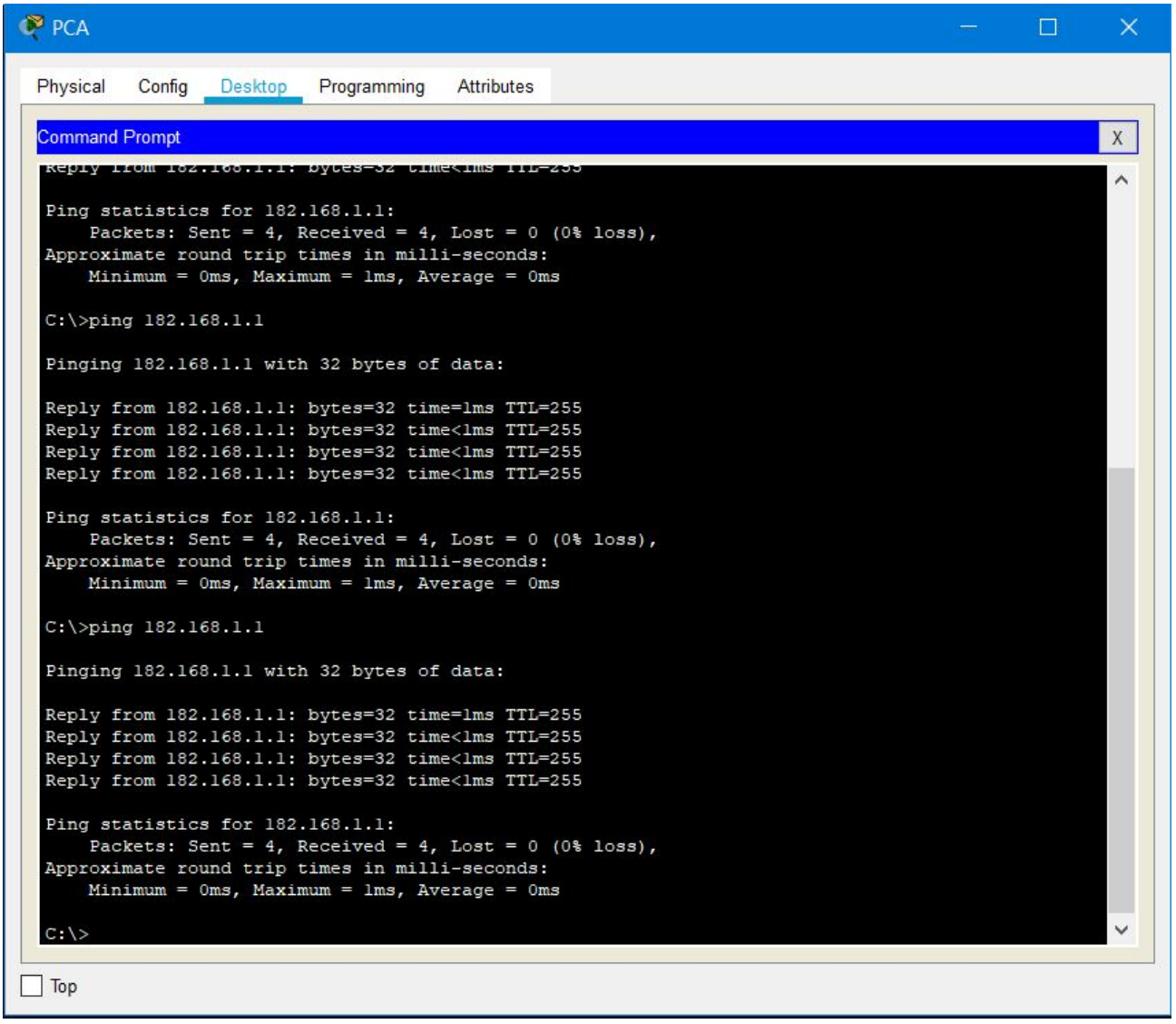
DCCN LAB ISE2

Task 1:

Final Network:

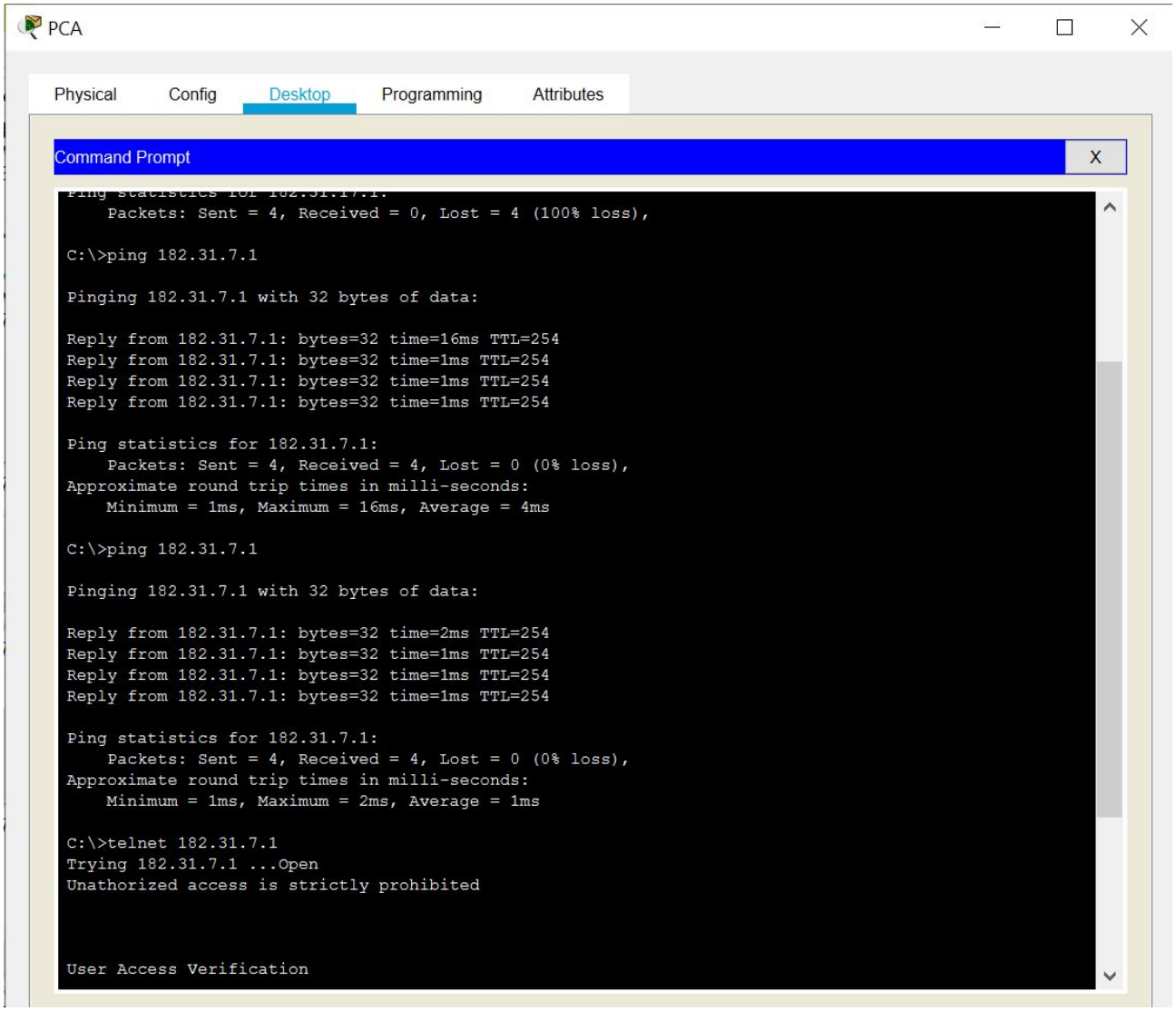


Pinging G0/1 interface on the gateway router from PCA:

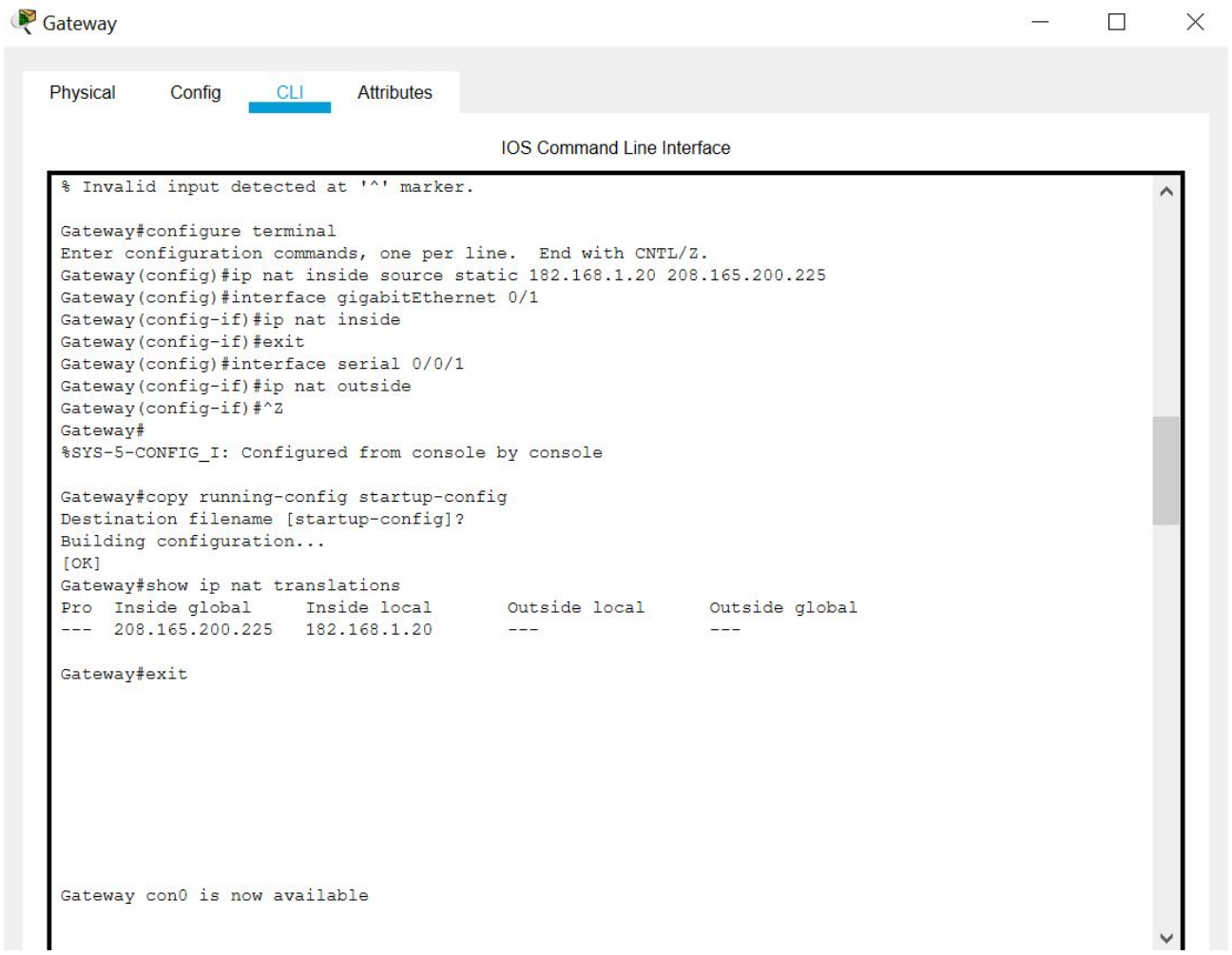


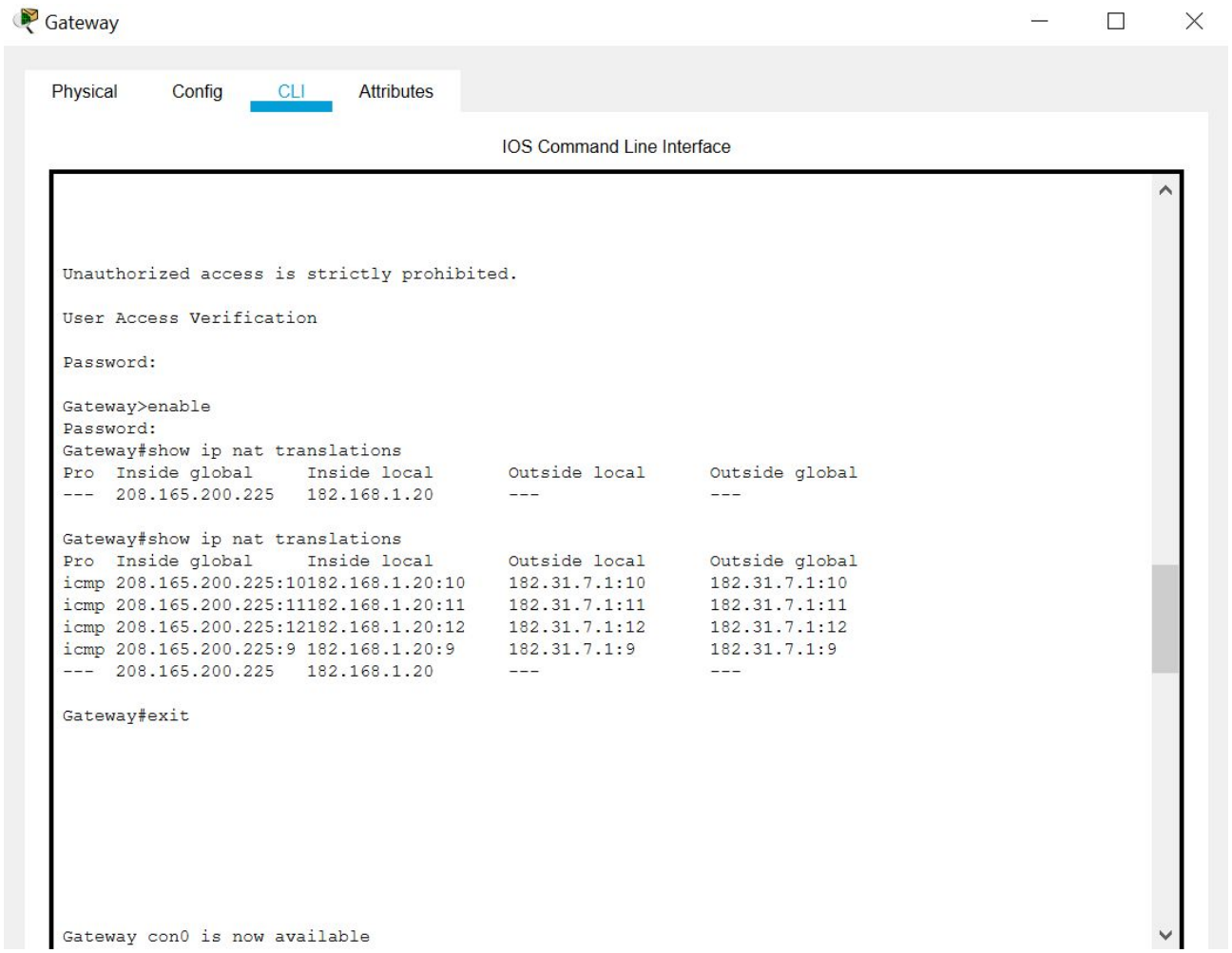
Task 2:

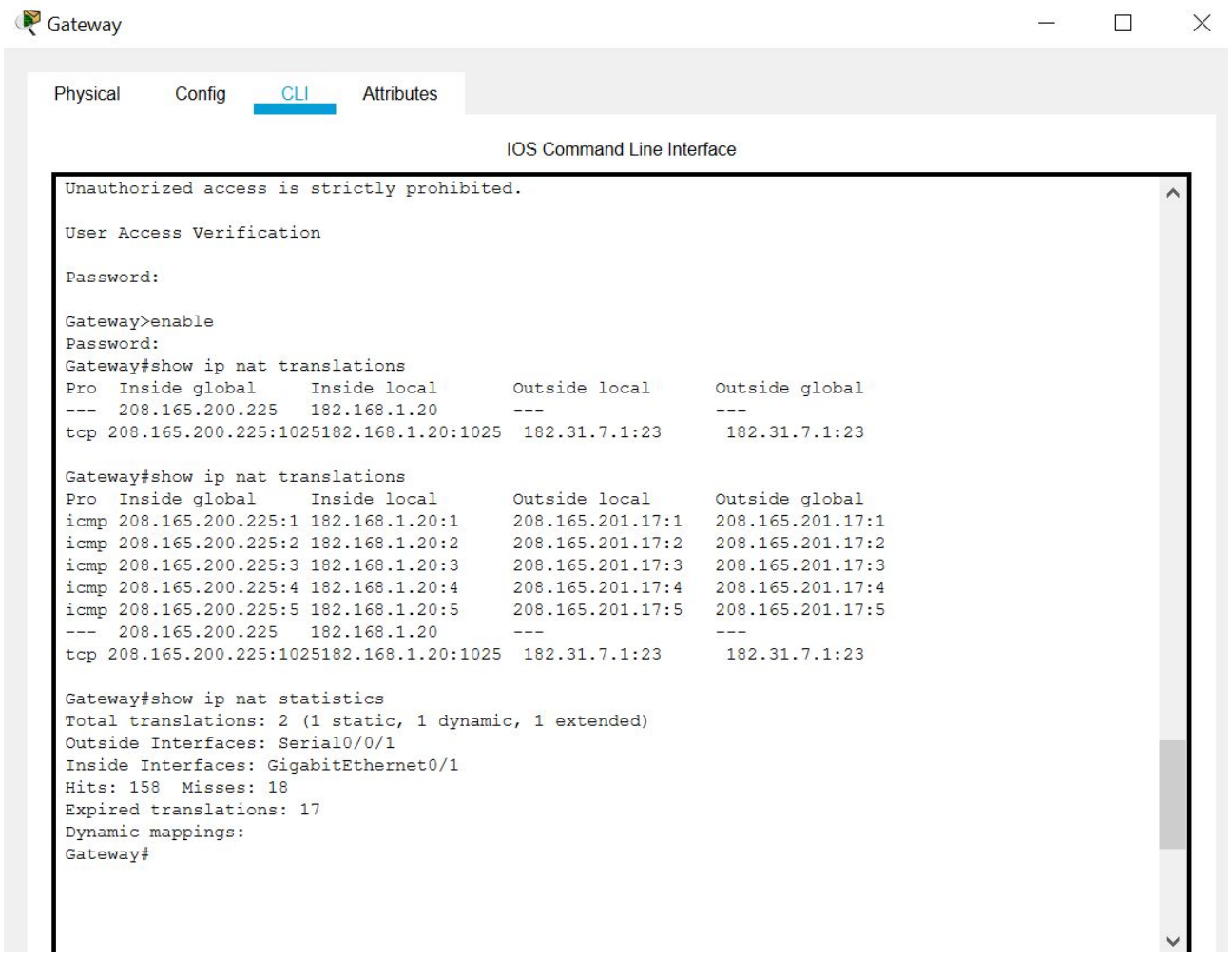
Pinging 182.31.7.1 from PC-A:



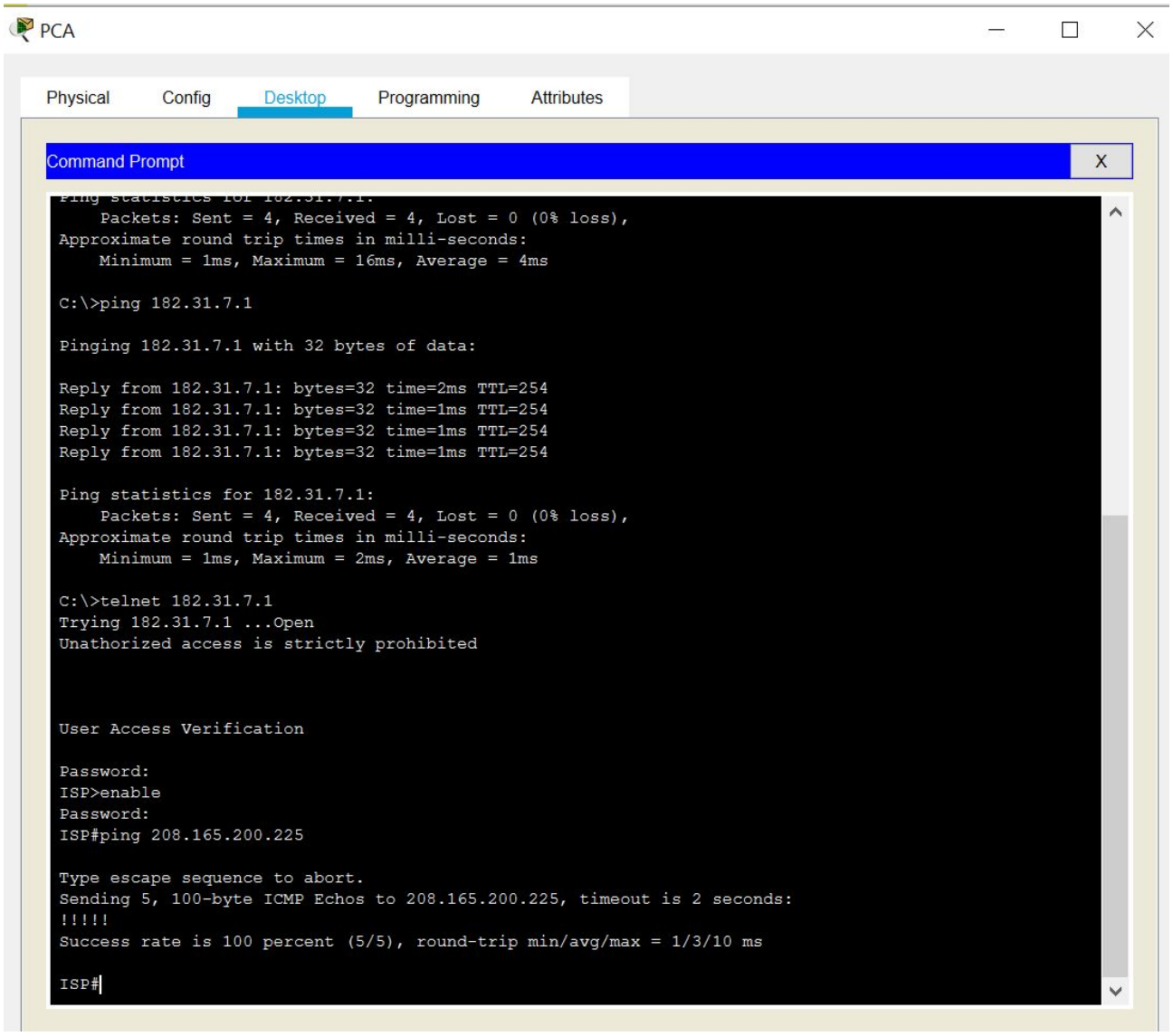
The following shows the NAT translations' output:

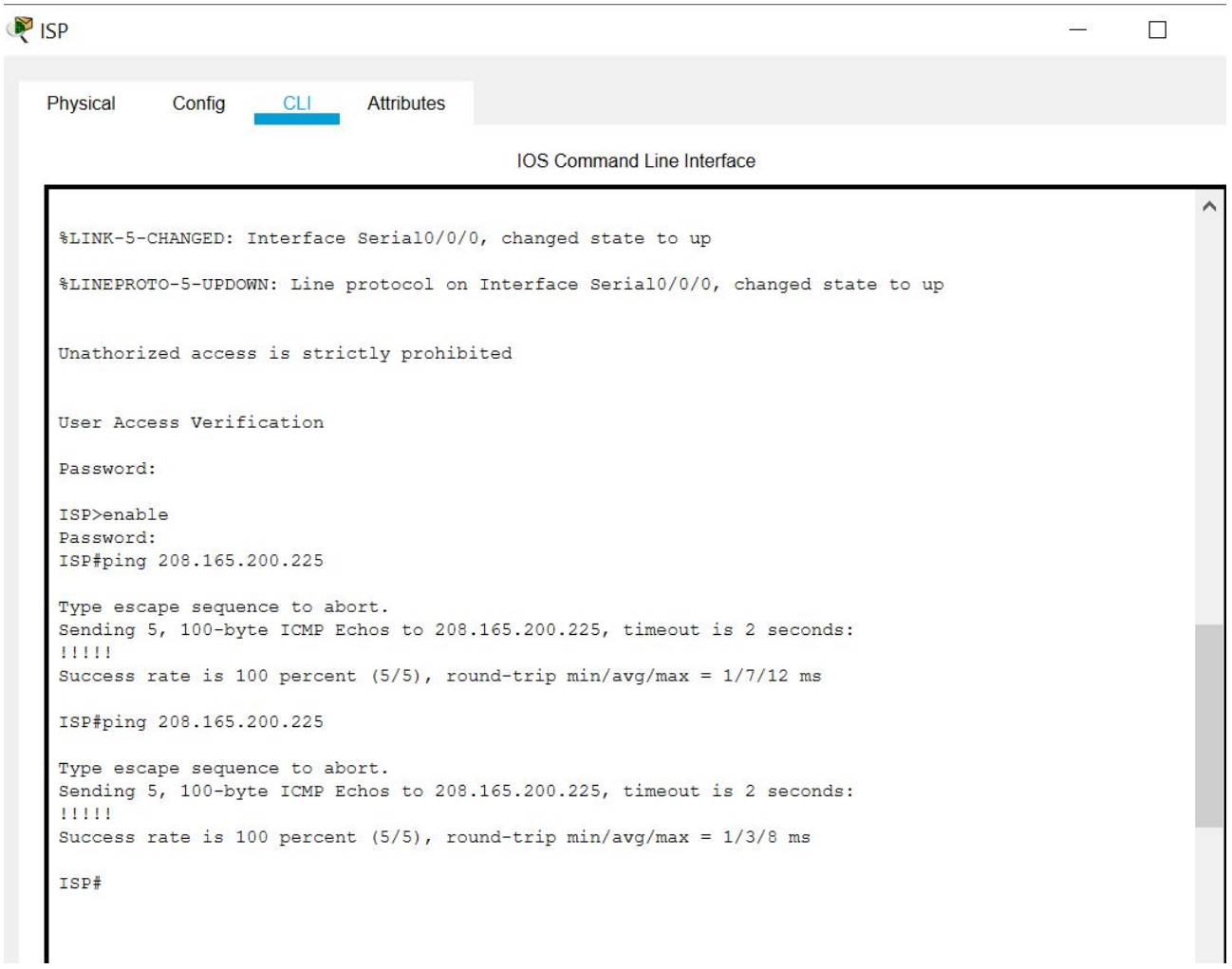

Gateway
Physical
Config
CLI
Attributes
IOS Command Line Interface
% Invalid input detected at '^' marker.
Gateway#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Gateway(config)#ip nat inside source static 182.168.1.20 208.165.200.225
Gateway(config)#interface gigabitEthernet 0/1
Gateway(config-if)#ip nat inside
Gateway(config-if)#exit
Gateway(config)#interface serial 0/0/1
Gateway(config-if)#ip nat outside
Gateway(config-if)#^Z
Gateway#
%SYS-5-CONFIG_I: Configured from console by console
Gateway#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
Gateway#show ip nat translations
Pro Inside global Inside local Outside local Outside global
--- 208.165.200.225 182.168.1.20 --- ---
Gateway#exit
Gateway con0 is now available


Gateway
Physical
Config
CLI
Attributes
IOS Command Line Interface
Unauthorized access is strictly prohibited.
User Access Verification
Password:
Gateway>enable
Password:
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 translations
Pro Inside global Inside local Outside local Outside global
icmp 208.165.200.225:10182.168.1.20:10 182.31.7.1:10 182.31.7.1:10
icmp 208.165.200.225:11182.168.1.20:11 182.31.7.1:11 182.31.7.1:11
icmp 208.165.200.225:12182.168.1.20:12 182.31.7.1:12 182.31.7.1:12
icmp 208.165.200.225:9 182.168.1.20:9 182.31.7.1:9 182.31.7.1:9
--- 208.165.200.225 182.168.1.20 --- ---
Gateway#exit
Gateway con0 is now available

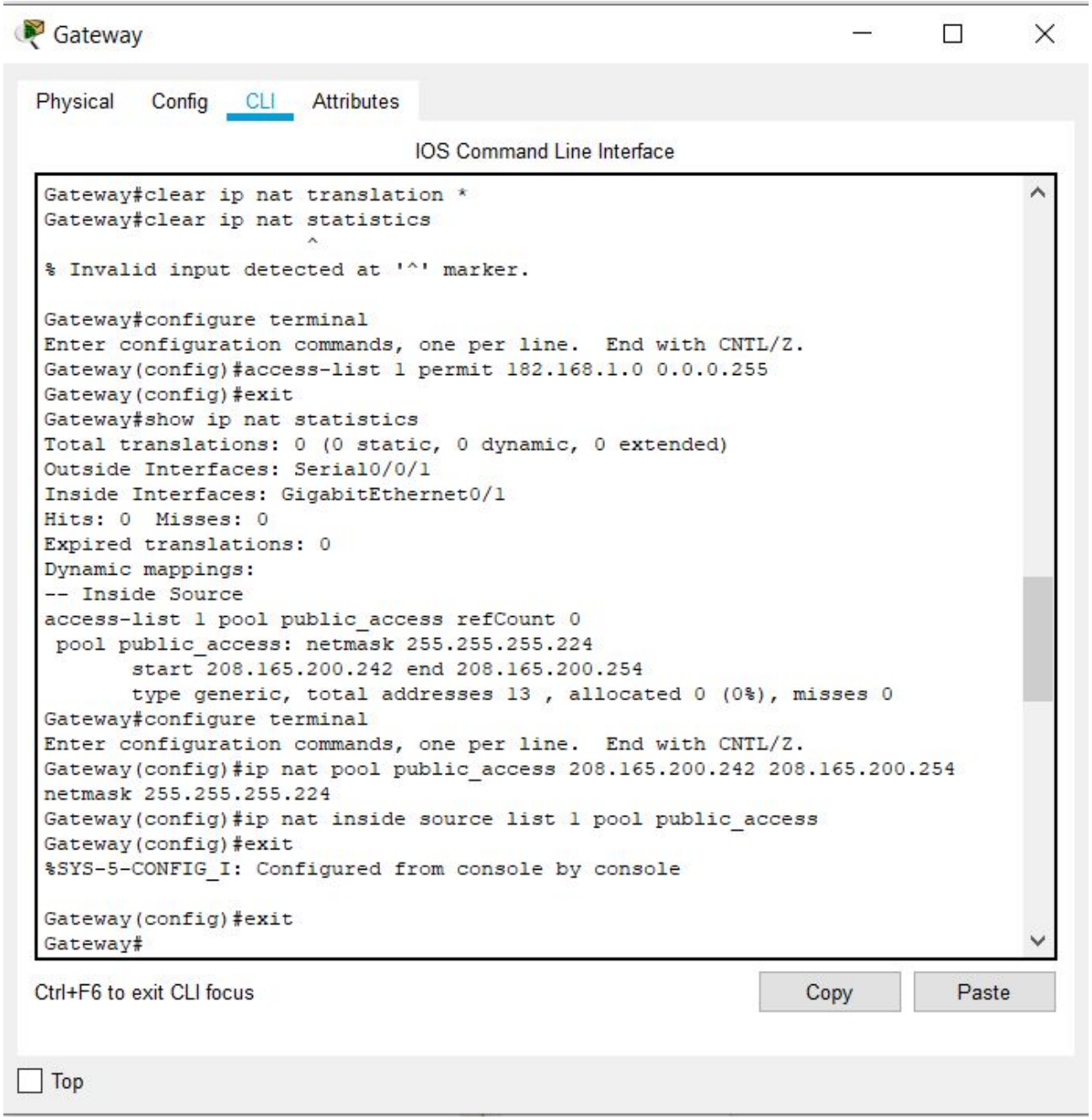


And shown below is the output of the ISP when we ping 208.165.200.225


PCA
Physical
Config
Desktop
Programming
Attributes
Command Prompt
X
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 = 16ms, Average = 4ms
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=2ms TTL=254
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=1ms 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 = 2ms, Average = 1ms
C:\>telnet 182.31.7.1
Trying 182.31.7.1 ...Open
Unathorized access is strictly prohibited
User Access Verification
Password:
ISP>enable
Password:
ISP#ping 208.165.200.225
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 208.165.200.225, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/3/10 ms
ISP#


ISP
Physical
Config
CLI
Attributes
IOS Command Line Interface
%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
Unathorized access is strictly prohibited
User Access Verification
Password:
ISP>enable
Password:
ISP#ping 208.165.200.225
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 208.165.200.225, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/7/12 ms
ISP#ping 208.165.200.225
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 208.165.200.225, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/3/8 ms
ISP#

TASK 3:



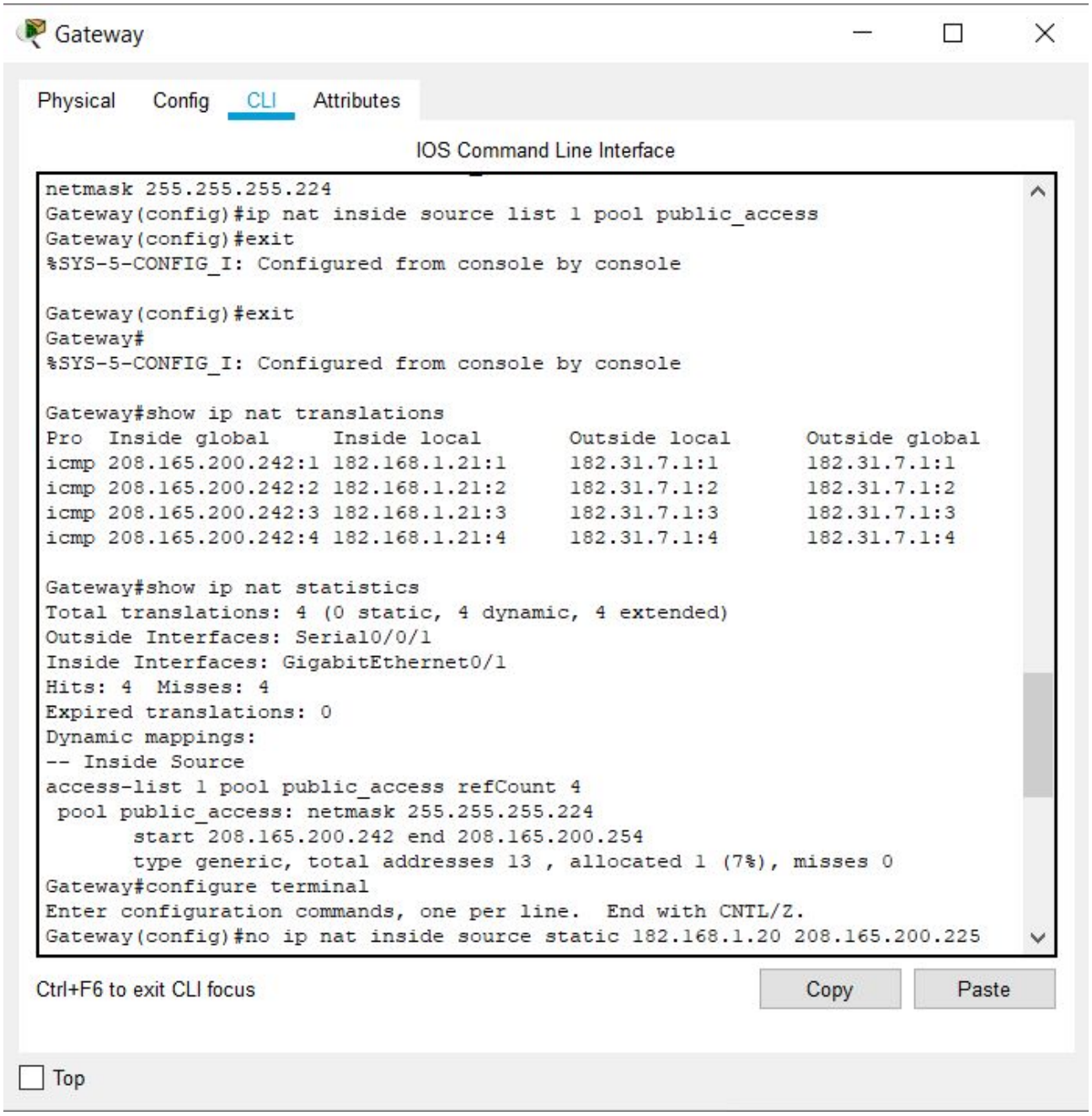
1)clear ip nat translation *
clear ip nat statistics

2)access-list 1 permit 182.168.1.0 0.0.0.255

3)show ip nat statistics

4)ip nat pool public_access 208.165.200.242 208.165.200.254 netmask 255.255.255.224

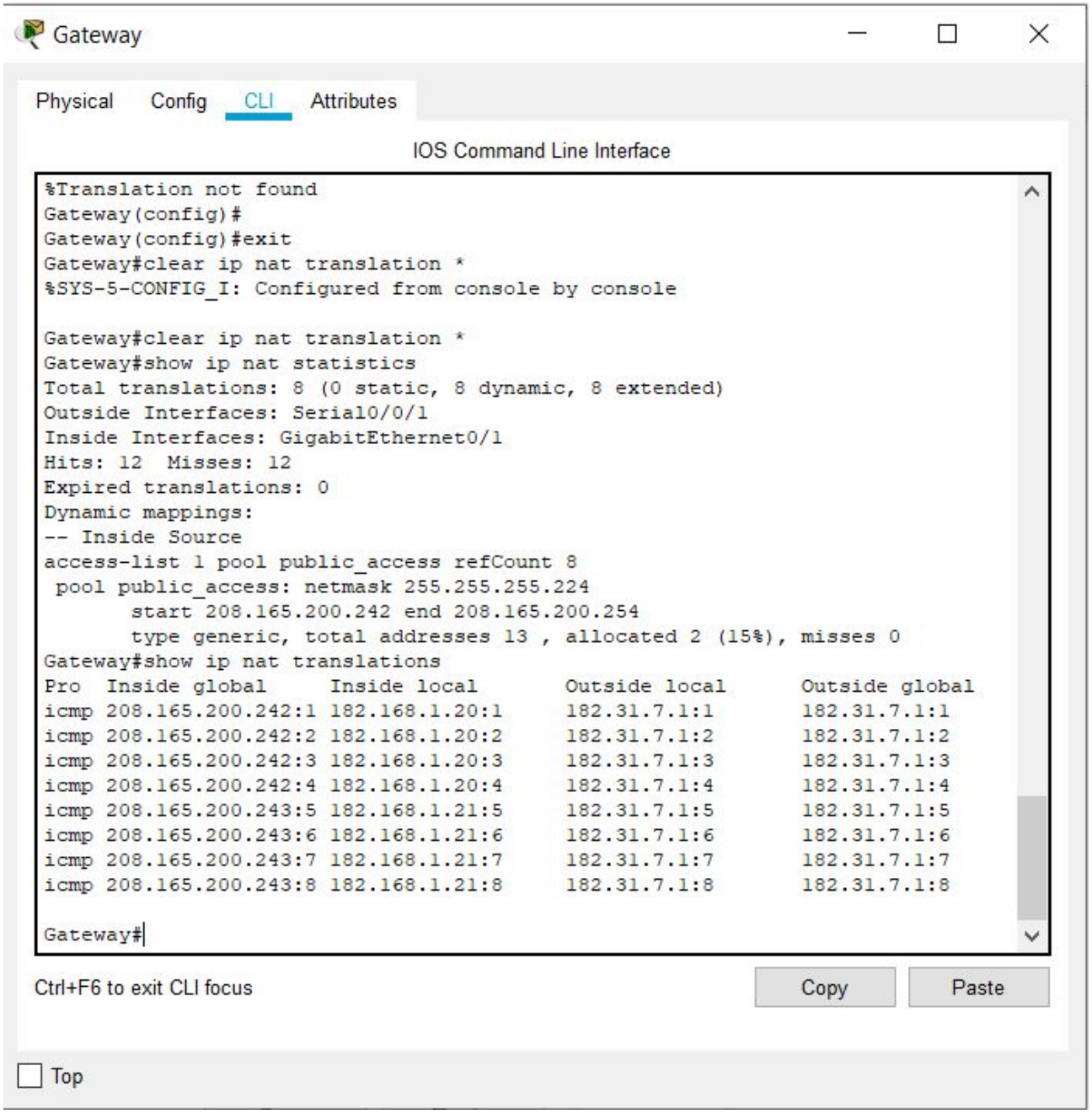
5)ip nat inside source list 1 pool public_access



6)show ip nat translations

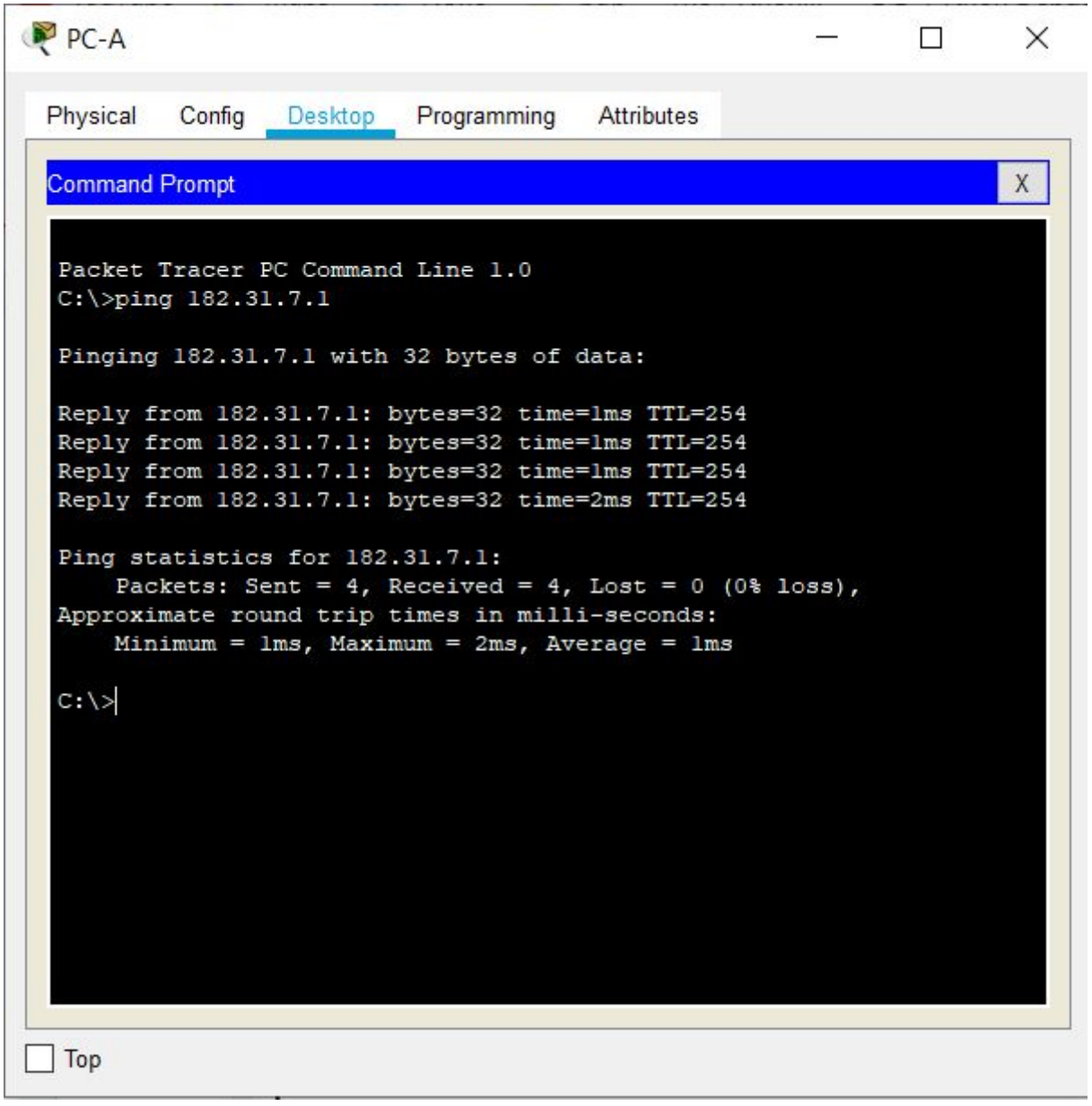
7)show ip nat statistics

8)no ip nat inside source static 182.168.1.20 208.165.200.225

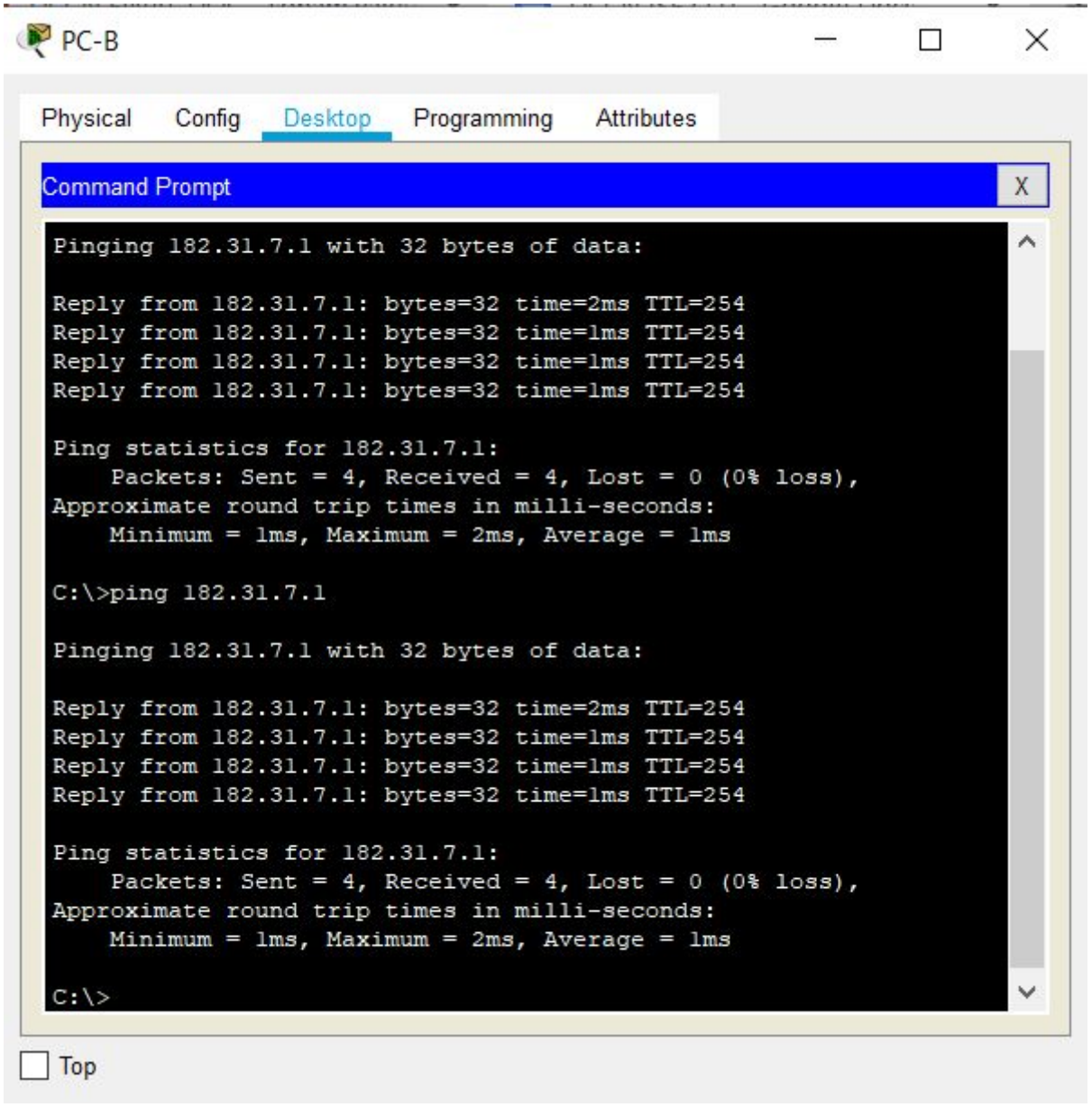


9)clear ip nat translation *

10)show ip nat statistics
11)show ip nat translations



ping 182.31.7.1 from PC-A



ping 182.31.7.1 from PC-B