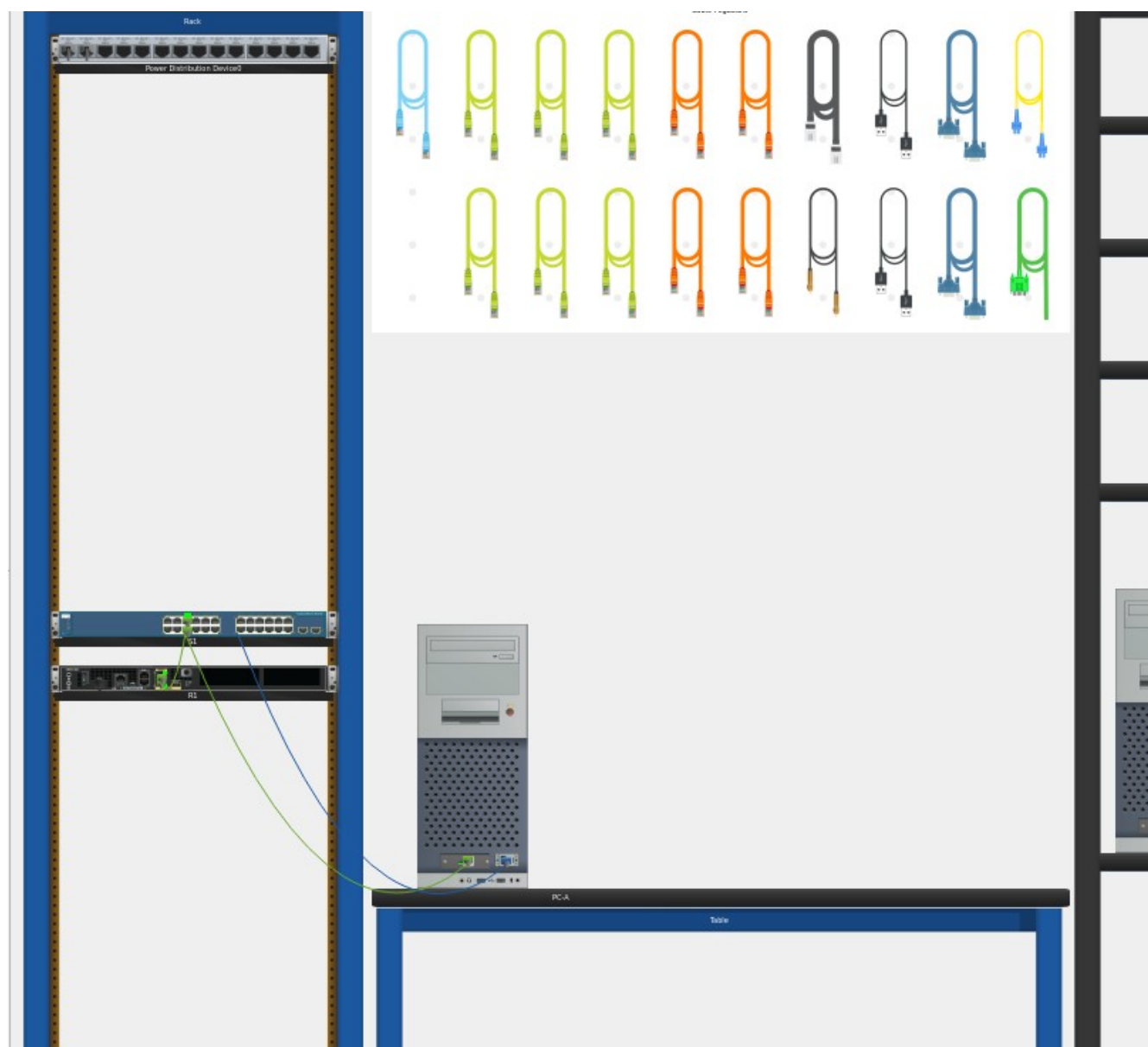
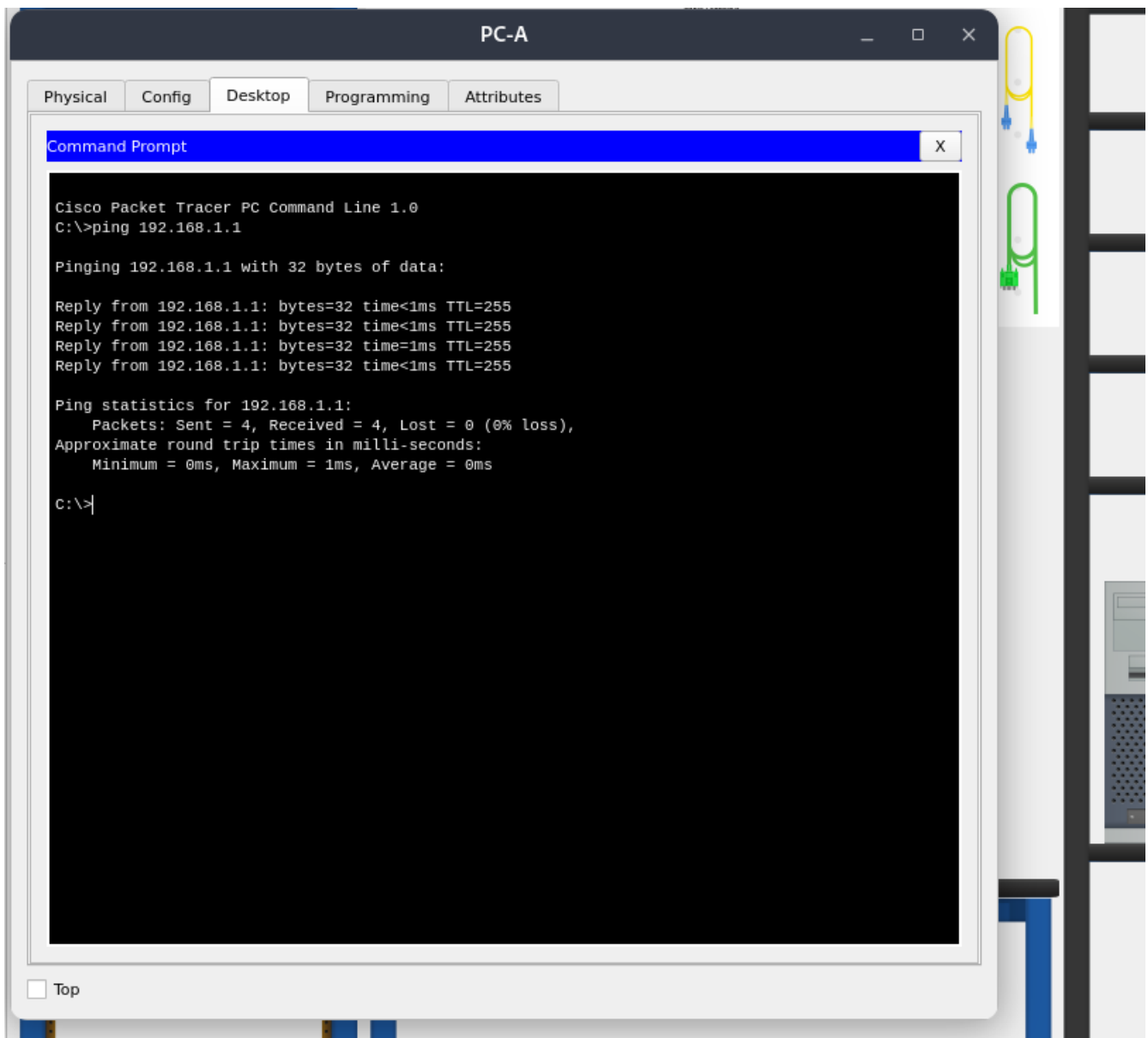


## Modulo # 13 – Laboratorio # 13.3.2





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Cisco Packet Tracer PC Command Line 1.0

C:\&gt;ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

Reply from 192.168.1.1: bytes=32 time&lt;1ms TTL=255

Reply from 192.168.1.1: bytes=32 time&lt;1ms TTL=255

Reply from 192.168.1.1: bytes=32 time&lt;1ms TTL=255

Reply from 192.168.1.1: bytes=32 time&lt;1ms TTL=255

Ping statistics for 192.168.1.1:

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

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\&gt;ping 2001:db8:acad:1::1

Pinging 2001:db8:acad:1::1 with 32 bytes of data:

Reply from 2001:DB8:ACAD:1::1: bytes=32 time&lt;1ms TTL=255

Reply from 2001:DB8:ACAD:1::1: bytes=32 time&lt;1ms TTL=255

Reply from 2001:DB8:ACAD:1::1: bytes=32 time&lt;1ms TTL=255

Reply from 2001:DB8:ACAD:1::1: bytes=32 time&lt;1ms TTL=255

Ping statistics for 2001:DB8:ACAD:1::1:

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

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\&gt;

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```
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 2001:db8:acad:200::225

Pinging 2001:db8:acad:200::225 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 2001:DB8:ACAD:200::225:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 209.165.200.226

Pinging 209.165.200.226 with 32 bytes of data:

Reply from 64.100.0.1: Destination host unreachable.
Reply from 64.100.0.1: Destination host unreachable.
Request timed out.
Reply from 64.100.0.1: Destination host unreachable.

Ping statistics for 209.165.200.226:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 2001:db8:acad:200::226

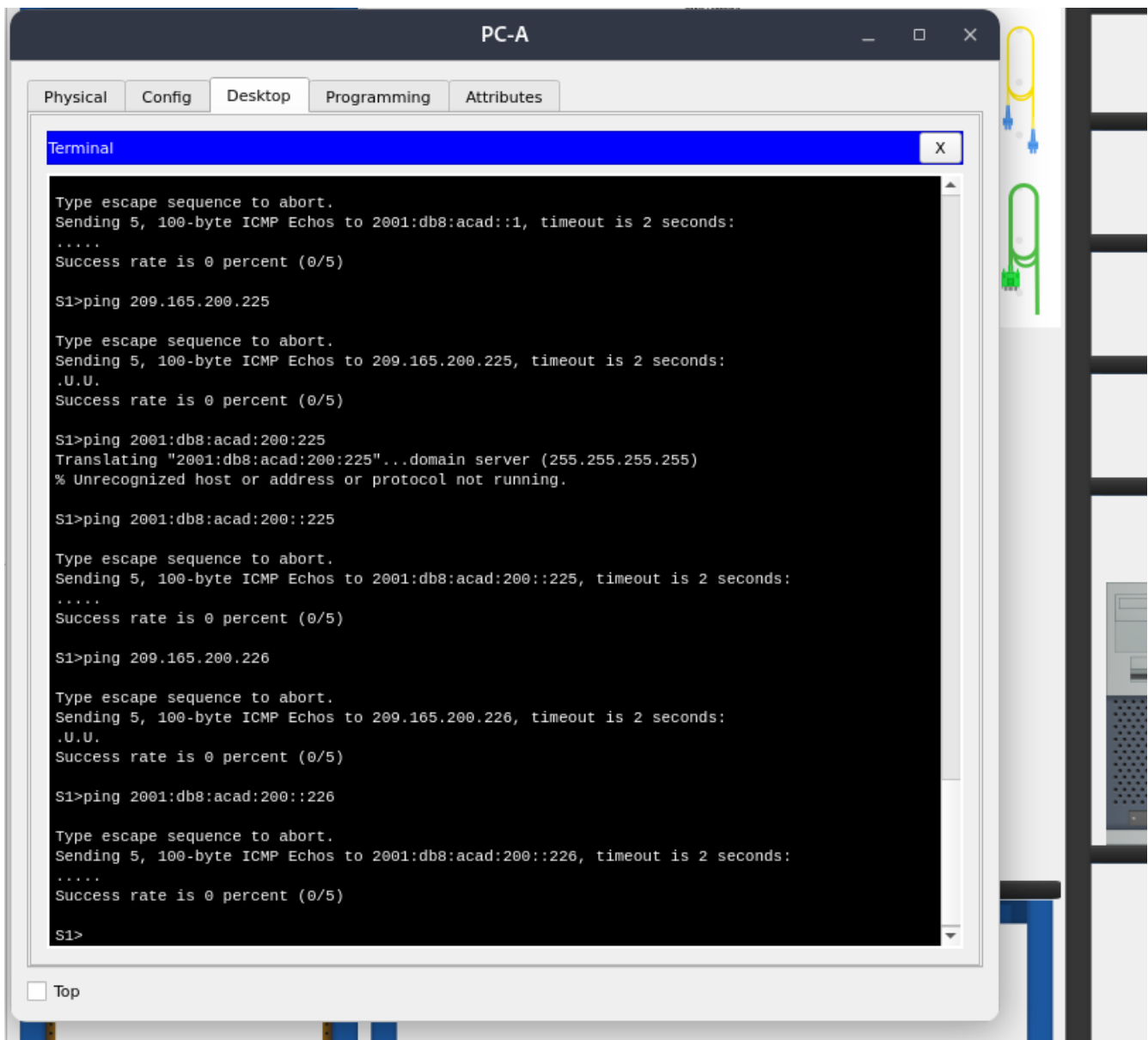
Pinging 2001:db8:acad:200::226 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 2001:DB8:ACAD:200::226:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

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```
C:\>ping 209.165.200.226

Pinging 209.165.200.226 with 32 bytes of data:

Reply from 64.100.0.1: Destination host unreachable.
Reply from 64.100.0.1: Destination host unreachable.
Request timed out.
Reply from 64.100.0.1: Destination host unreachable.

Ping statistics for 209.165.200.226:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 2001:db8:acad:200::226

Pinging 2001:db8:acad:200::226 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 2001:DB8:ACAD:200::226:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>tracert 209.165.200.226

Tracing route to 209.165.200.226 over a maximum of 30 hops:

  0  0 ms    0 ms    0 ms    192.168.1.1
  1  0 ms    0 ms    0 ms    64.100.0.1
  2  0 ms    *        0 ms    64.100.0.1
  3  *        0 ms    *        Request timed out.
  4  0 ms    *        0 ms    64.100.0.1
  5  *        0 ms    *        Request timed out.
  6  0 ms    *        0 ms    64.100.0.1
  7  *        0 ms    *        Request timed out.
  8  *        0 ms    *        Request timed out.

Control-C
^C
C:\>
```

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Tracing route to 209.165.200.226 over a maximum of 30 hops:

1	0 ms	0 ms	0 ms	192.168.1.1
2	0 ms	0 ms	0 ms	64.100.0.1
3	0 ms	*	0 ms	64.100.0.1
4	*	0 ms	*	Request timed out.
5	0 ms	*	0 ms	64.100.0.1
6	*	0 ms	*	Request timed out.
7	0 ms	*	0 ms	64.100.0.1
8	*	0 ms		

Control-C

^C

C:\&gt;tracert 2001:db8:acad:200::226

Tracing route to 2001:db8:acad:200::226 over a maximum of 30 hops:

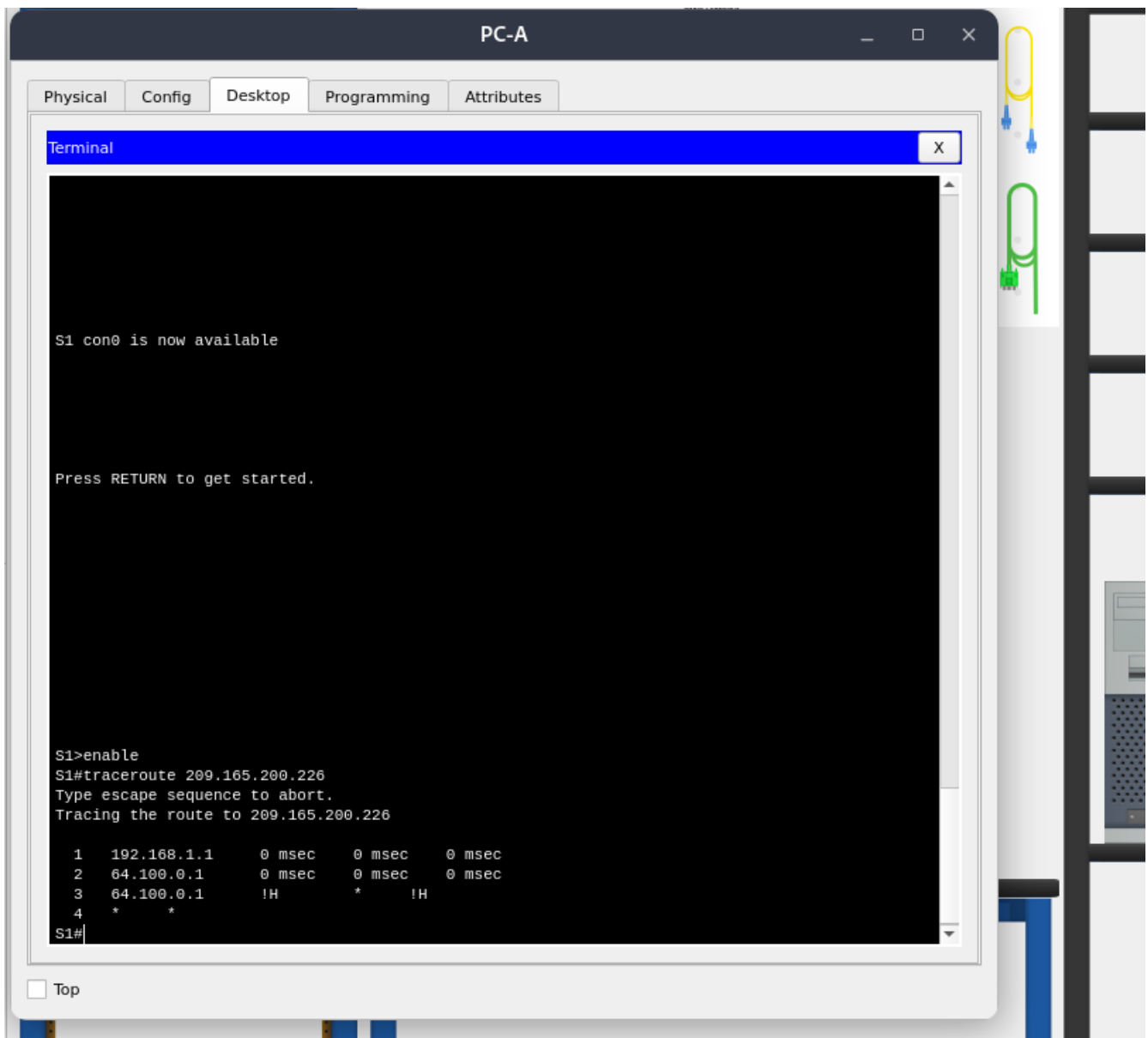
1	0 ms	0 ms	0 ms	2001:DB8:ACAD:1::1
2	0 ms	0 ms	0 ms	2001:DB8:ACAD::1
3	0 ms	0 ms	0 ms	2001:DB8:ACAD:1::1
4	0 ms	0 ms	0 ms	2001:DB8:ACAD::1
5	0 ms	0 ms	0 ms	2001:DB8:ACAD:1::1
6	0 ms	0 ms	0 ms	2001:DB8:ACAD::1
7	0 ms	0 ms	0 ms	2001:DB8:ACAD:1::1
8	0 ms	0 ms	0 ms	2001:DB8:ACAD::1
9	0 ms	0 ms	0 ms	2001:DB8:ACAD:1::1
10	0 ms	0 ms	0 ms	2001:DB8:ACAD::1
11	0 ms	0 ms	0 ms	2001:DB8:ACAD:1::1
12	0 ms	0 ms	0 ms	2001:DB8:ACAD::1
13	0 ms	0 ms	0 ms	2001:DB8:ACAD:1::1
14	0 ms	0 ms	0 ms	2001:DB8:ACAD::1
15	1 ms	0 ms	0 ms	2001:DB8:ACAD:1::1
16	0 ms	0 ms	0 ms	2001:DB8:ACAD::1
17	0 ms	0 ms	0 ms	2001:DB8:ACAD:1::1
18	0 ms	0 ms	0 ms	2001:DB8:ACAD::1
19	0 ms	0 ms	0 ms	2001:DB8:ACAD:1::1
20	0 ms	0 ms	0 ms	2001:DB8:ACAD::1

Control-C

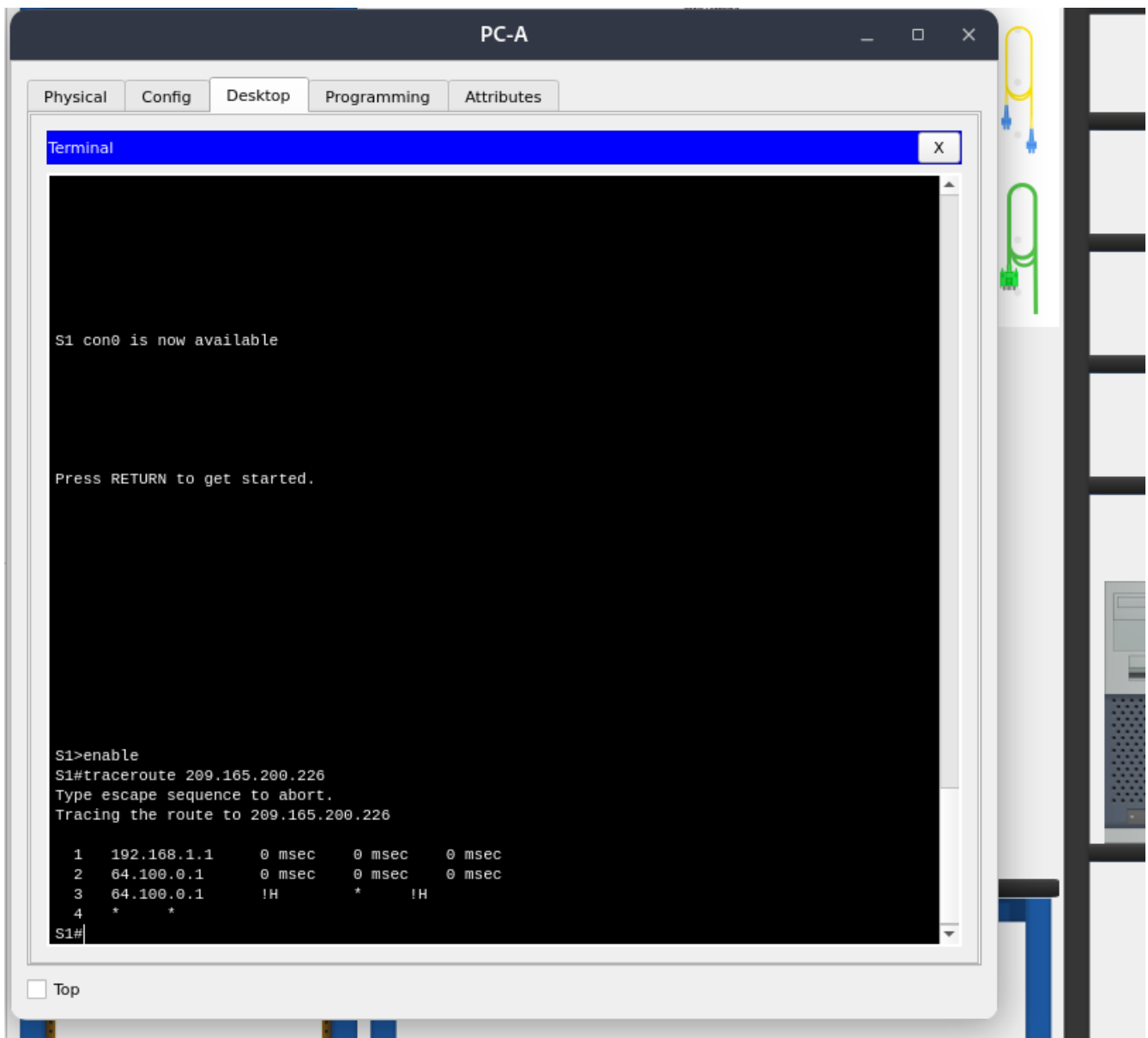
^C

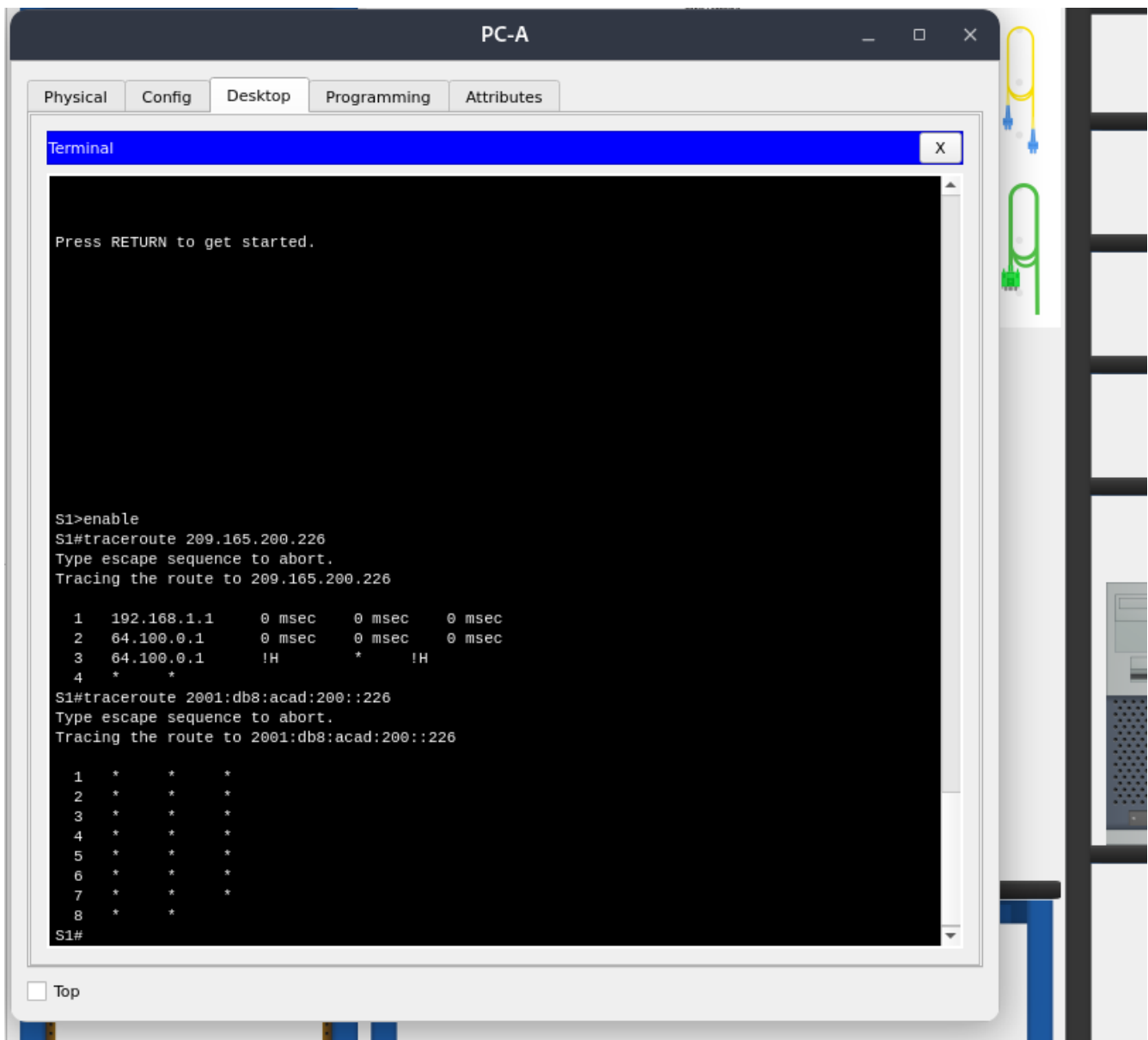
C:\&gt;

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```
20 0 ms 0 ms 0 ms 2001:DB8:ACAD::1
Control-C
^C
C:\>ssh -l admin 64.100.0.1

Password:
% Login invalid

Password:

ISP#show ip interfa
ISP#show ip interface brief

```

Interface	IP-Address	OK?	Method	Status	Protocol
GigabitEthernet0/0/0	64.100.0.1	YES	manual	up	up
GigabitEthernet0/0/1	192.168.8.1	YES	manual	up	up
Vlan1	unassigned	YES	unset	administratively down	down

```
ISP#show run | sec
ISP#show run | section in
ISP#show run | section inte
ISP#show run | section inter
ISP#show run | section interface
interface GigabitEthernet0/0/0
 ip address 64.100.0.1 255.255.255.252
 duplex auto
 speed auto
 ipv6 address FE80::1 link-local
 ipv6 address 2001:DB8:ACAD::1/64
interface GigabitEthernet0/0/1
 ip address 192.168.8.1 255.255.255.0
 duplex auto
 speed auto
 ipv6 address 2001:DB8:ACAD:201::225/128
interface Vlan1
 no ip address
 shutdown
ISP#
```

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## PC-A

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## Command Prompt

```
ISP#show ip interfa
ISP#show ip interface brief
Interface              IP-Address      OK? Method Status      Protocol
GigabitEthernet0/0/0    64.100.0.1      YES manual up          up
GigabitEthernet0/0/1    192.168.8.1     YES manual up          up
Vlan1                   unassigned      YES unset  administratively down down
ISP#show run | sec
ISP#show run | section in
ISP#show run | section inte
ISP#show run | section inter
ISP#show run | section interface
interface GigabitEthernet0/0/0
 ip address 64.100.0.1 255.255.255.252
 duplex auto
 speed auto
 ipv6 address FE80::1 link-local
 ipv6 address 2001:DB8:ACAD::1/64
interface GigabitEthernet0/0/1
 ip address 192.168.8.1 255.255.255.0
 duplex auto
 speed auto
 ipv6 address 2001:DB8:ACAD:201::225/128
interface Vlan1
 no ip address
 shutdown
ISP#config t
Enter configuration commands, one per line. End with CNTL/Z.
ISP(config)#int g0/0/1
ISP(config-if)#no ip add
ISP(config-if)#no ip address 192
ISP(config-if)#no ip address 192.168.8.1 255.255.255.0
ISP(config-if)#ip address 209.165.200.225 255.255.255.224
ISP(config-if)#no ipv6 address 2001:db8:acad:201::225/64
ISP(config-if)#ipv6 address 2001:db8:acad:200::225/64
ISP(config-if)#ipv6 address fe80::225 link-c
ISP(config-if)#ipv6 address fe80::225 link-local
ISP(config-if)#no shutdown
ISP(config-if)#
```

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A summary of U.S. laws governing Cisco cryptographic products may be found at:  
<http://www.cisco.com/wwl/export/crypto/tool/stqrg.html>

If you require further assistance please contact us by sending email to  
[export@cisco.com](mailto:export@cisco.com).

cisco ISR4321/K9 (1RU) processor with 1687137K/6147K bytes of memory.  
Processor board ID FLM2041W2HD  
2 Gigabit Ethernet interfaces  
32768K bytes of non-volatile configuration memory.  
4194304K bytes of physical memory.  
3223551K bytes of flash memory at bootflash:.

Press RETURN to get started!

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/1, changed state to up

R1>enable

R1#ping 209.165.200.226

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 209.165.200.226, timeout is 2 seconds:

.!!!!

Success rate is 80 percent (4/5), round-trip min/avg/max = 0/0/0 ms

R1#ping 209.165.200.226

Type escape sequence to abort.

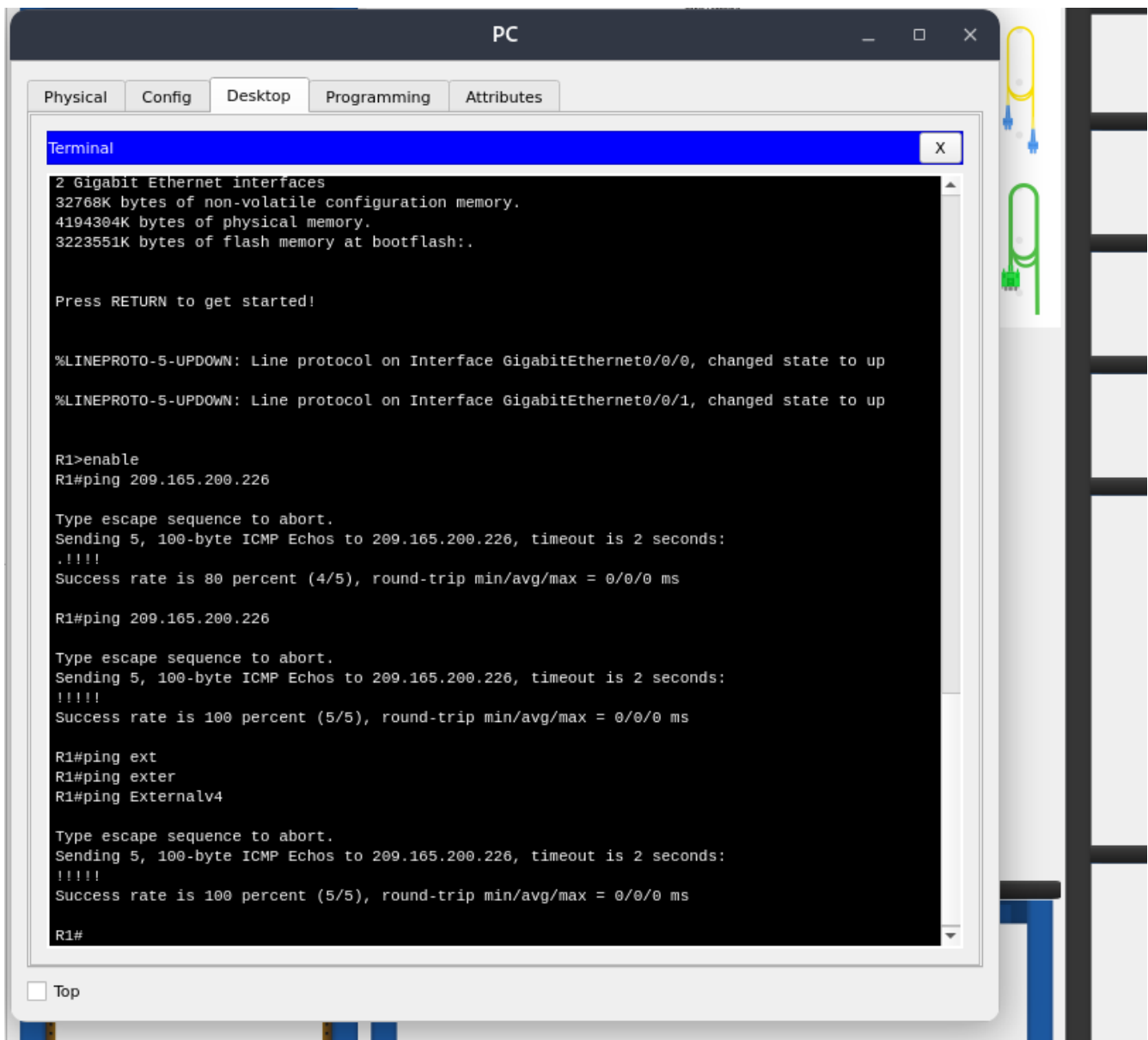
Sending 5, 100-byte ICMP Echos to 209.165.200.226, timeout is 2 seconds:

!!!!!

Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/0 ms

R1#

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```
R1>enable
R1#ping 209.165.200.226

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 209.165.200.226, timeout is 2 seconds:
.!!!!
Success rate is 80 percent (4/5), round-trip min/avg/max = 0/0/0 ms

R1#ping 209.165.200.226

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 209.165.200.226, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/0 ms

R1#ping ext
R1#ping exter
R1#ping Externalv4

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 209.165.200.226, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/0 ms

R1#ping
Protocol [ip]: ipv6
Target IPv6 address: 2001:db8:acad:200::226
Repeat count [5]:
Datagram size [100]:
Timeout in seconds [2]:
Extended commands [n]:
Sweep range of sizes [n]:
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 2001:DB8:ACAD:200::226, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/0 ms

R1#
```

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**3. Si haces ping a una dirección que no existe en ninguna red de tu topología, como 192.168.5.3, desde una PC con Windows, ¿cuál es el mensaje que muestra el comando ping? ¿Qué indica este mensaje?**

*Destination host unreachable.* Este mensaje indica que no hay ruta hacia el destino, ya que la red no está listada en la tabla de enrutamiento.