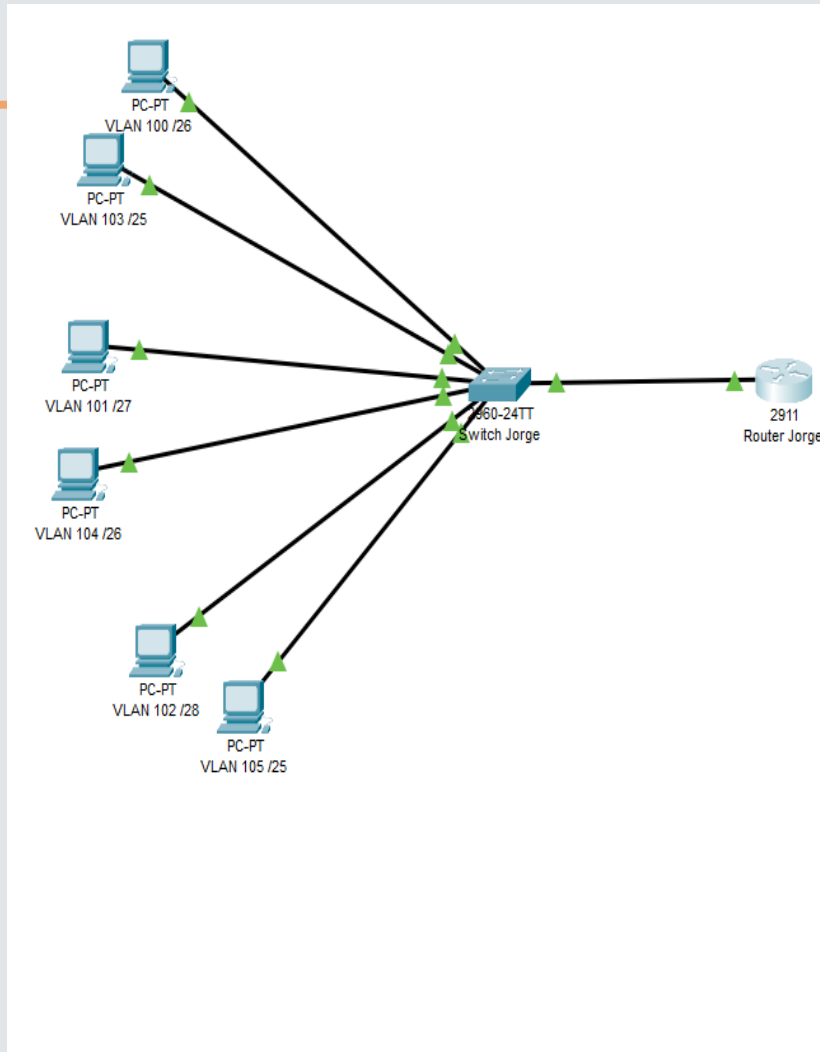


LAB 3
JORGE PARRA
HIDALGO
ITIT - 13104



IMAGEN DE CONFIGURACION DE INTERFACES DEL ROUTER, 6 VLANS E IP SUBNETS (6 REACTIVOS)



Router Jorge

Physical Config CLI Attributes

IOS Command Line Interface

```
!
!
!
interface GigabitEthernet0/0
 no ip address
 duplex auto
 speed auto
!
interface GigabitEthernet0/0.100
 encapsulation dot1Q 100
 ip address 10.10.100.1 255.255.255.192
!
interface GigabitEthernet0/0.101
 encapsulation dot1Q 101
 ip address 10.10.101.1 255.255.255.224
!
interface GigabitEthernet0/0.102
 encapsulation dot1Q 102
 ip address 10.10.102.1 255.255.255.240
!
interface GigabitEthernet0/0.103
 encapsulation dot1Q 103
 ip address 10.10.100.129 255.255.255.128
!
interface GigabitEthernet0/0.104
 encapsulation dot1Q 104
 ip address 10.10.101.65 255.255.255.192
!
interface GigabitEthernet0/0.105
 encapsulation dot1Q 105
 ip address 10.10.102.129 255.255.255.128
!
interface GigabitEthernet0/1
 no ip address
 duplex auto
 speed auto
 shutdown
```

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IMAGEN DE CONFIGURACION DE TRUNK DEL SWITCH, 6 VLANS (6 REACTIVOS)

Physical Config CLI Attributes

IOS Command Line Interface

```
!  
interface FastEthernet0/14  
!  
interface FastEthernet0/15  
!  
interface FastEthernet0/16  
!  
interface FastEthernet0/17  
!  
interface FastEthernet0/18  
!  
interface FastEthernet0/19  
!  
interface FastEthernet0/20  
!  
interface FastEthernet0/21  
!  
interface FastEthernet0/22  
!  
interface FastEthernet0/23  
!  
interface FastEthernet0/24  
  switchport trunk allowed vlan 100-105  
  switchport mode trunk  
!  
interface GigabitEthernet0/1  
!  
interface GigabitEthernet0/2  
!  
interface Vlan1  
  no ip address  
  shutdown  
!  
!  
!  
!  
--More--
```

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IMAGEN DE CONFIGURACION DE PUERTO DE ACCESO DEL SWITCH, 6 ACCESS PORTS (6 REACTIVOS)

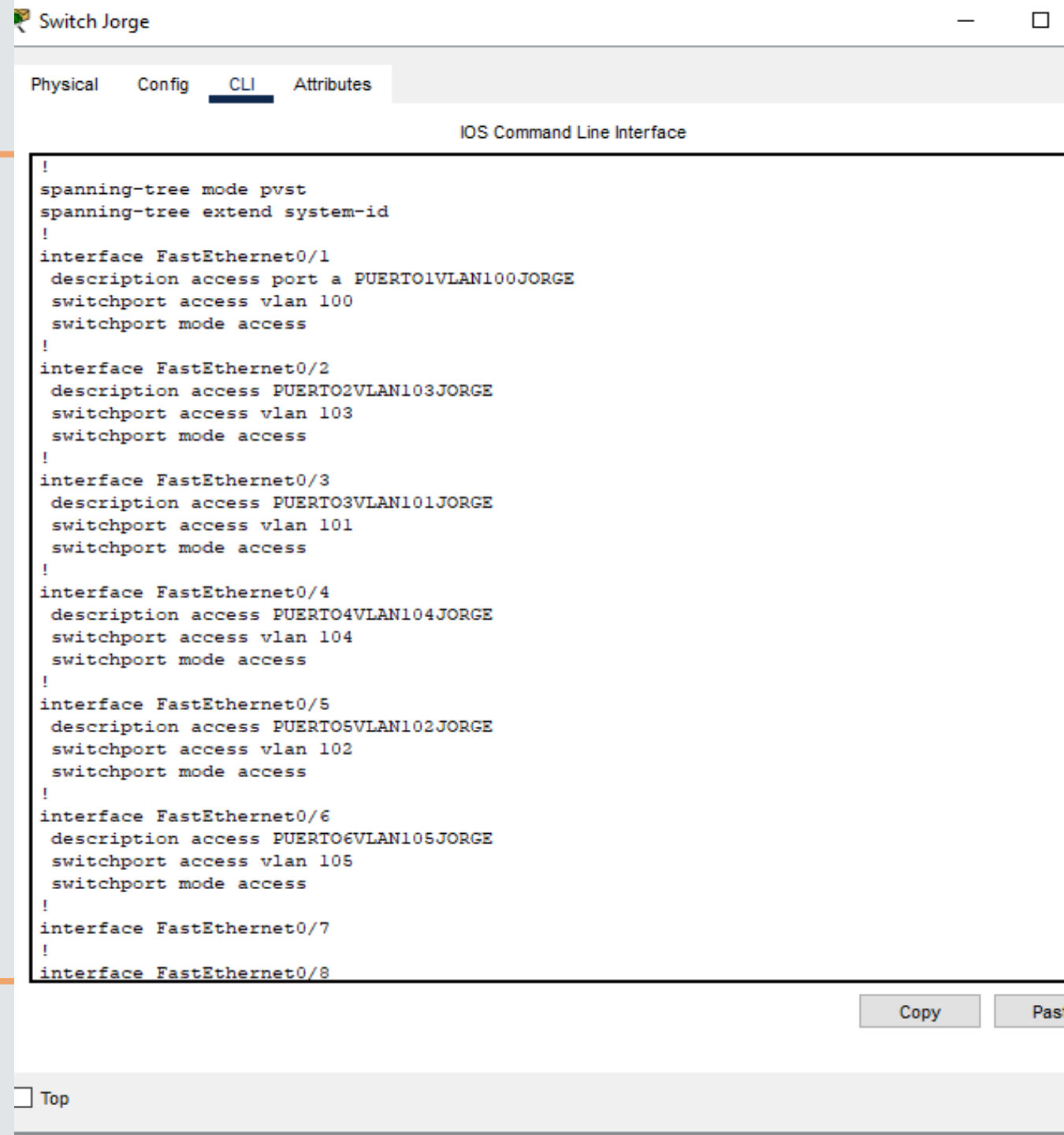


IMAGEN DE SHOW IP ROUTE DEL ROUTER, 6 IP SUBNETS (6 REACTIVOS)

Router Jorge

Physical Config **CLI** Attributes

IOS Command Line Interface

```
% Invalid input detected at '^' marker.

Router(config)#end
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#
Router#show ip rou
Router#show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

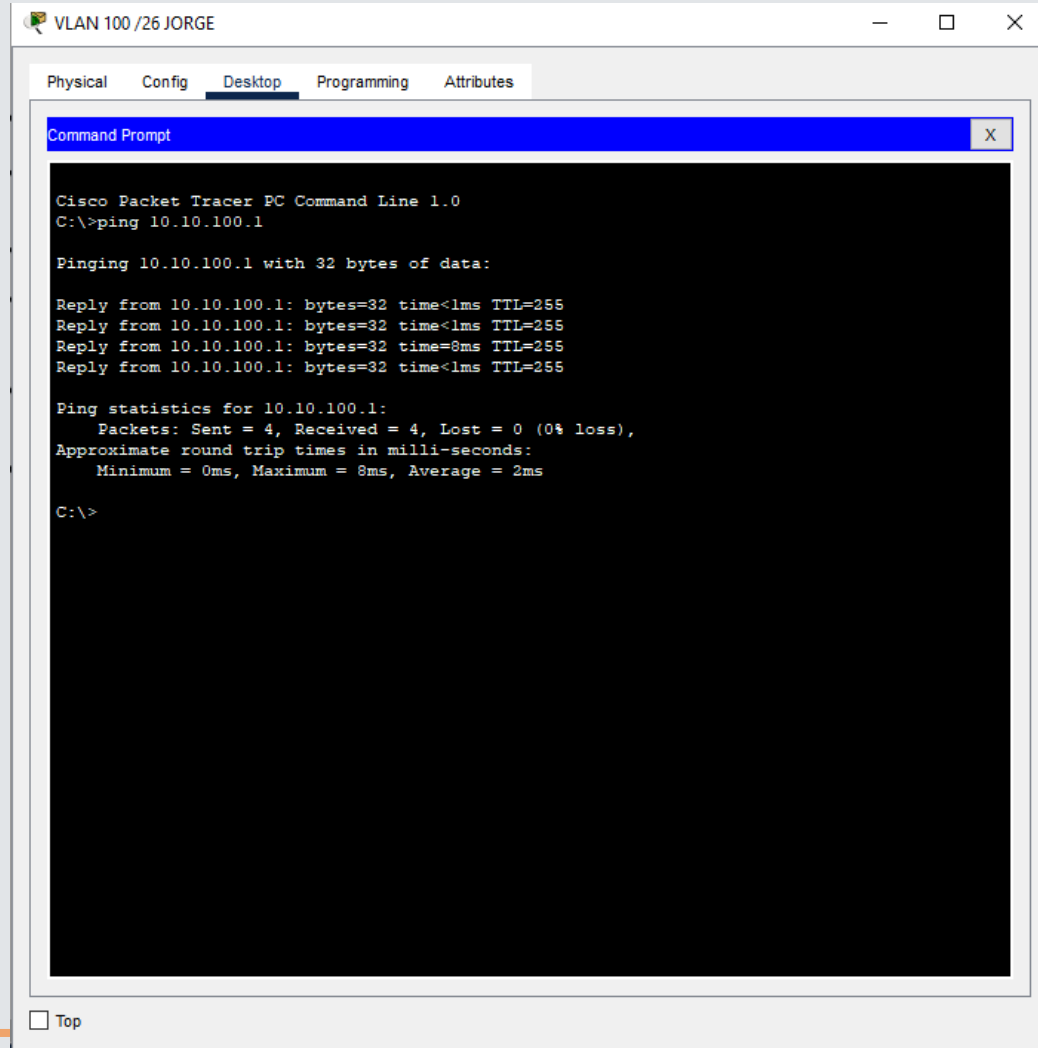
    10.0.0.0/8 is variably subnetted, 12 subnets, 5 masks
C       10.10.100.0/26 is directly connected, GigabitEthernet0/0.100
L       10.10.100.1/32 is directly connected, GigabitEthernet0/0.100
C       10.10.100.128/25 is directly connected, GigabitEthernet0/0.103
L       10.10.100.129/32 is directly connected, GigabitEthernet0/0.101
C       10.10.101.0/27 is directly connected, GigabitEthernet0/0.101
L       10.10.101.1/32 is directly connected, GigabitEthernet0/0.101
C       10.10.101.64/26 is directly connected, GigabitEthernet0/0.104
L       10.10.101.65/32 is directly connected, GigabitEthernet0/0.104
C       10.10.102.0/28 is directly connected, GigabitEthernet0/0.102
L       10.10.102.1/32 is directly connected, GigabitEthernet0/0.102
C       10.10.102.128/25 is directly connected, GigabitEthernet0/0.105
L       10.10.102.129/32 is directly connected, GigabitEthernet0/0.105

Router#
Router#
Router#
```

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IMAGEN DE PING
EXITOSO DE PC A
ROUTER POR
CADA VLAN, 6
PINGS (6
REACTIVOS)



The screenshot shows a Cisco Packet Tracer PC Command Line window for a device named 'VLAN 100/26 JORGE'. The window has tabs for Physical, Config, Desktop, Programming, and Attributes, with 'Desktop' selected. Inside the window is a 'Command Prompt' window with a blue title bar. The command prompt shows the command 'C:\>ping 10.10.100.1' and its output, which indicates a successful ping with 4 replies and 0% loss.

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 10.10.100.1

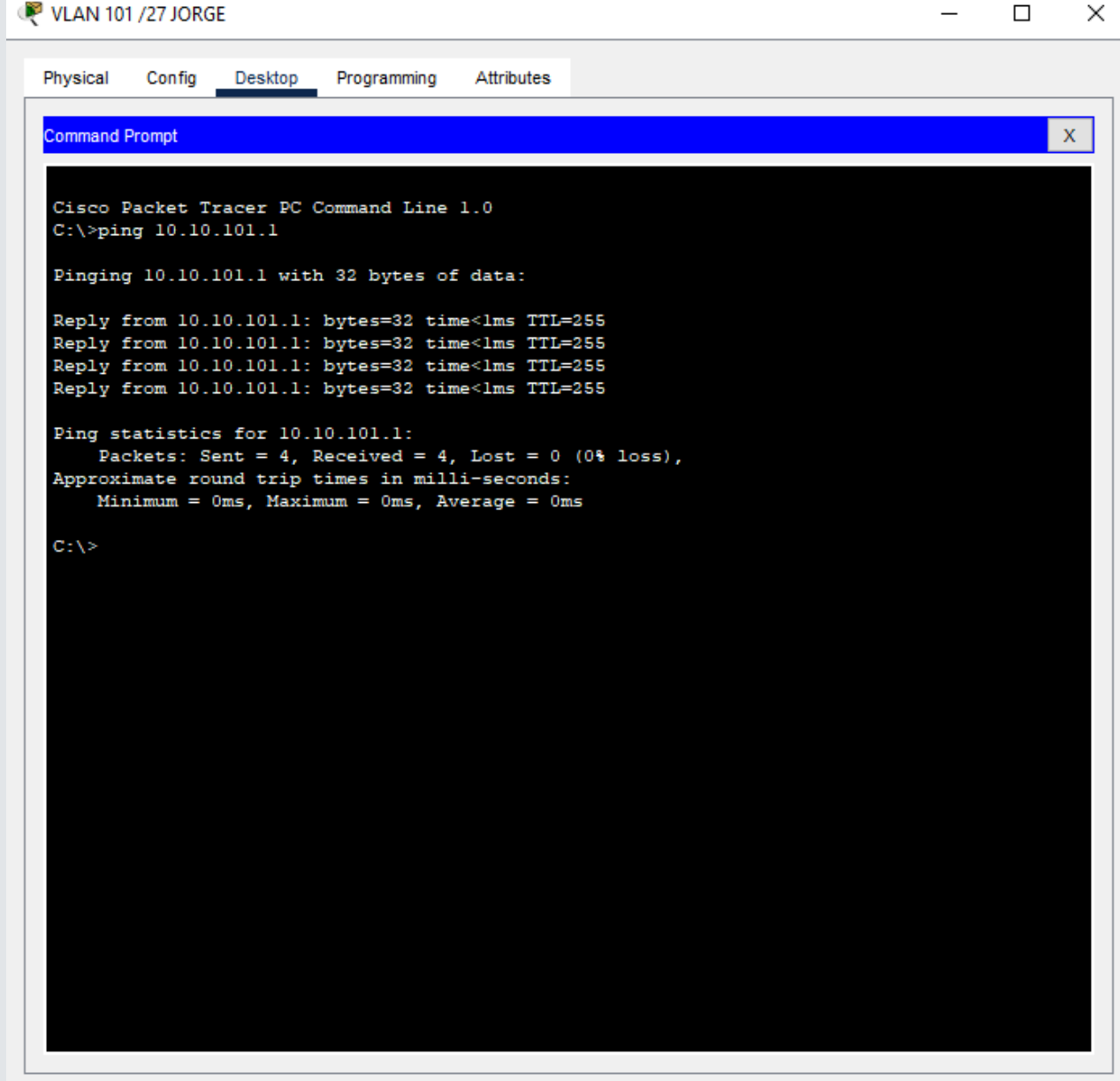
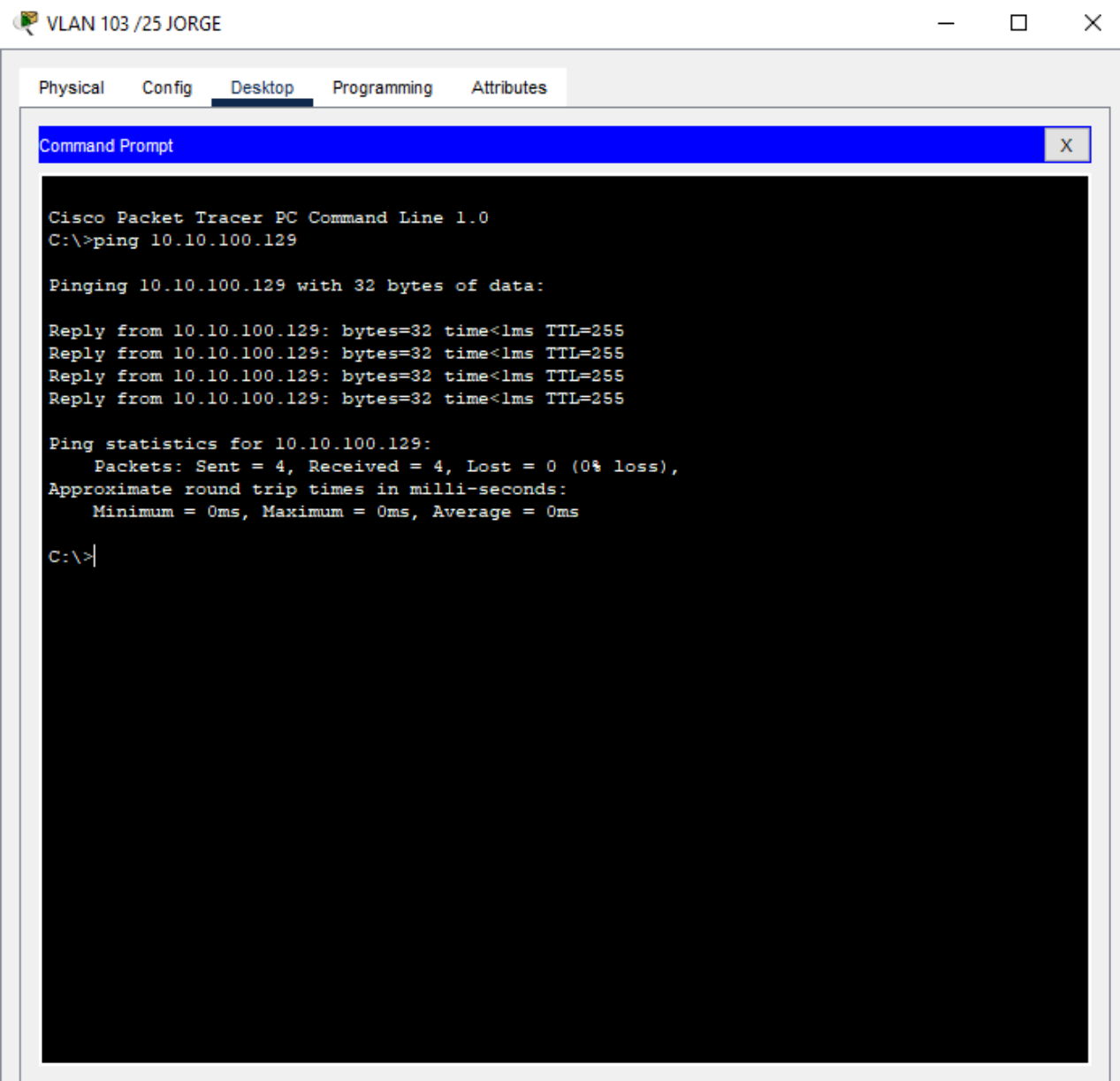
Pinging 10.10.100.1 with 32 bytes of data:

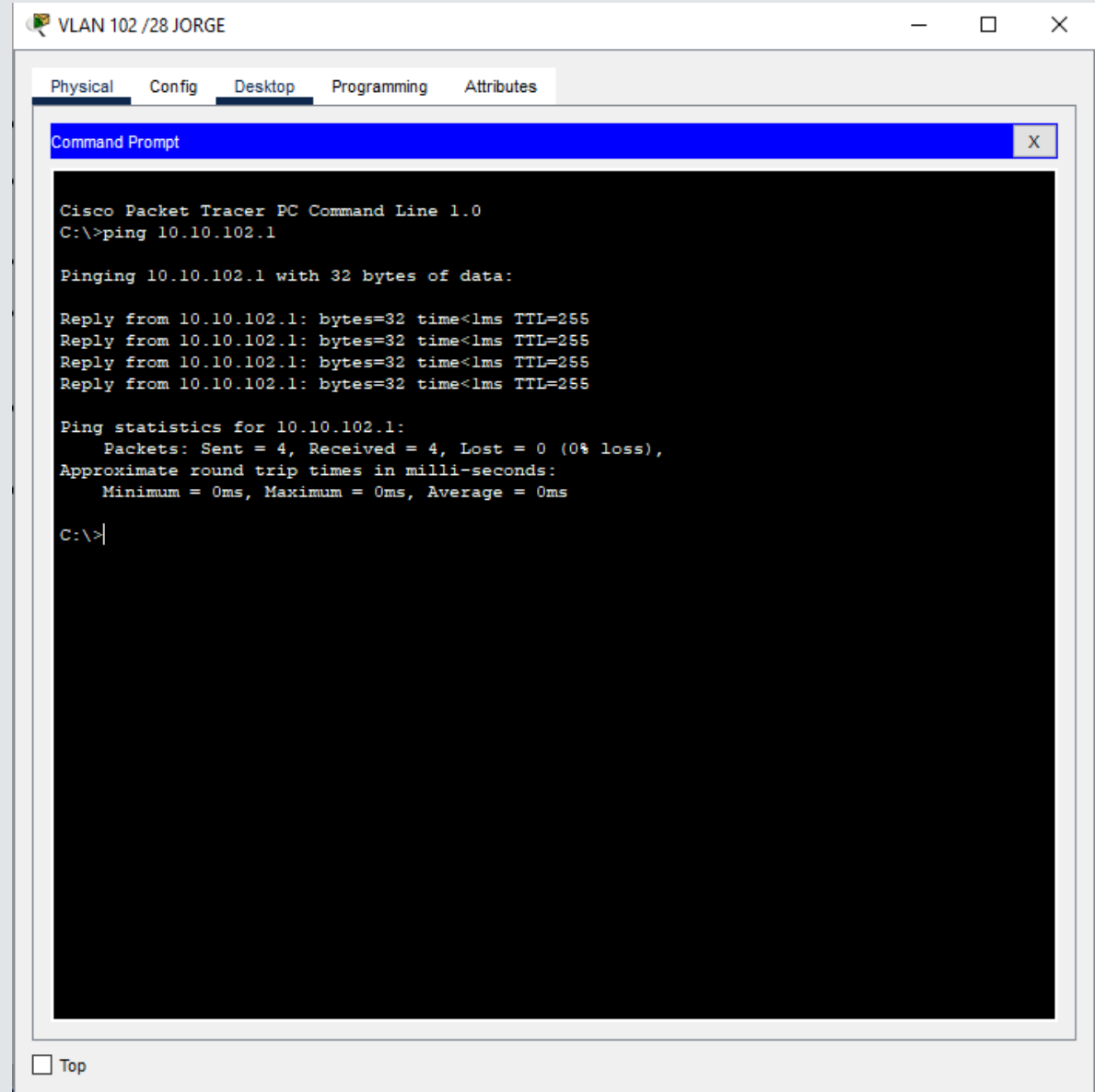
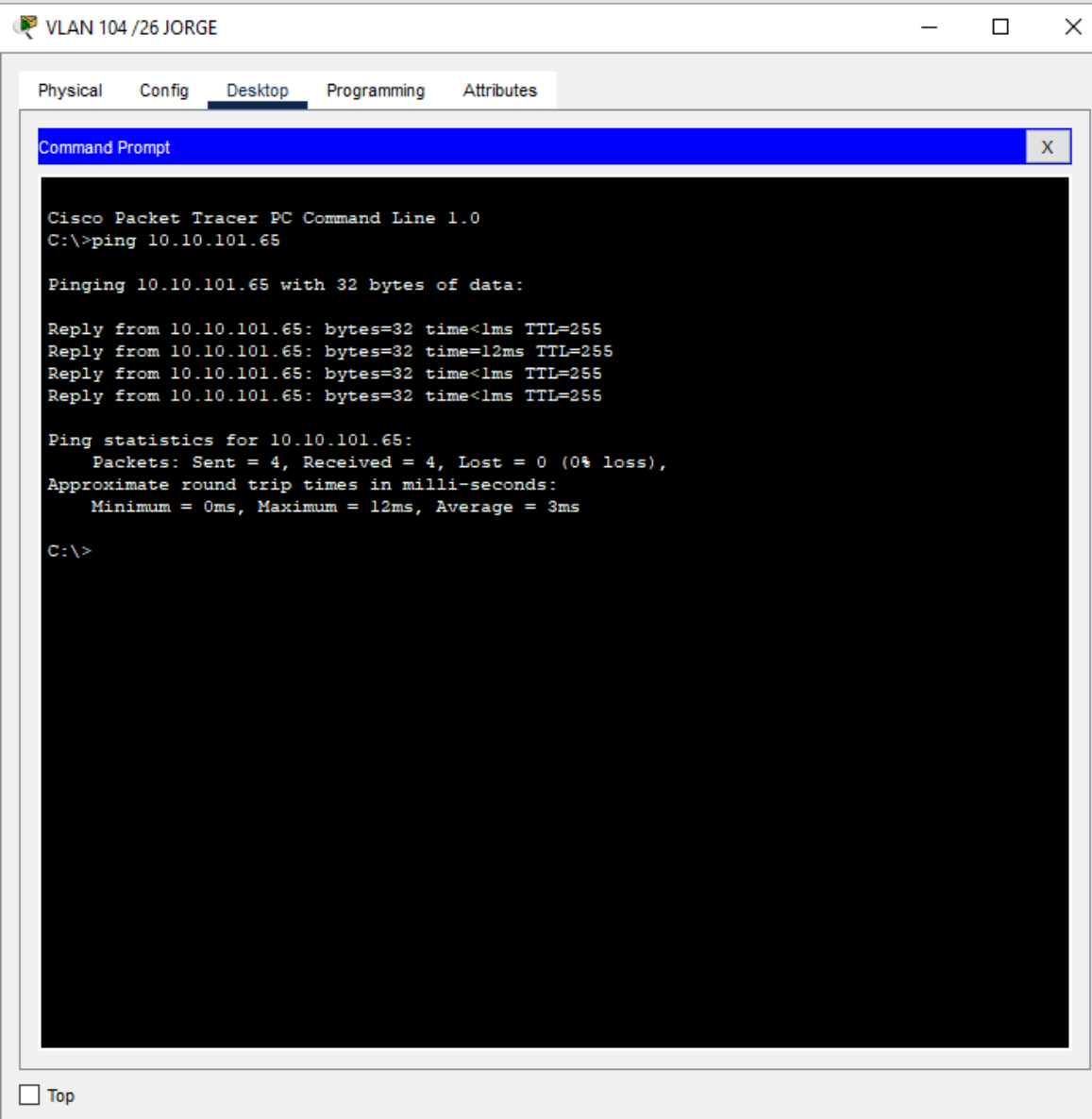
Reply from 10.10.100.1: bytes=32 time<1ms TTL=255
Reply from 10.10.100.1: bytes=32 time<1ms TTL=255
Reply from 10.10.100.1: bytes=32 time=8ms TTL=255
Reply from 10.10.100.1: bytes=32 time<1ms TTL=255

Ping statistics for 10.10.100.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 8ms, Average = 2ms

C:\>
```

Top





Physical Config Desktop Programming Attributes

Command Prompt

X

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 10.10.102.129

Pinging 10.10.102.129 with 32 bytes of data:

Reply from 10.10.102.129: bytes=32 time<1ms TTL=255
Reply from 10.10.102.129: bytes=32 time=15ms TTL=255
Reply from 10.10.102.129: bytes=32 time<1ms TTL=255
Reply from 10.10.102.129: bytes=32 time<1ms TTL=255

Ping statistics for 10.10.102.129:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 15ms, Average = 3ms

C:\>|
```

IMAGEN DE PING EXITOSO DE ROUTER A PC POR CADA VLAN, 6 PINGS (6 REACTIVOS)

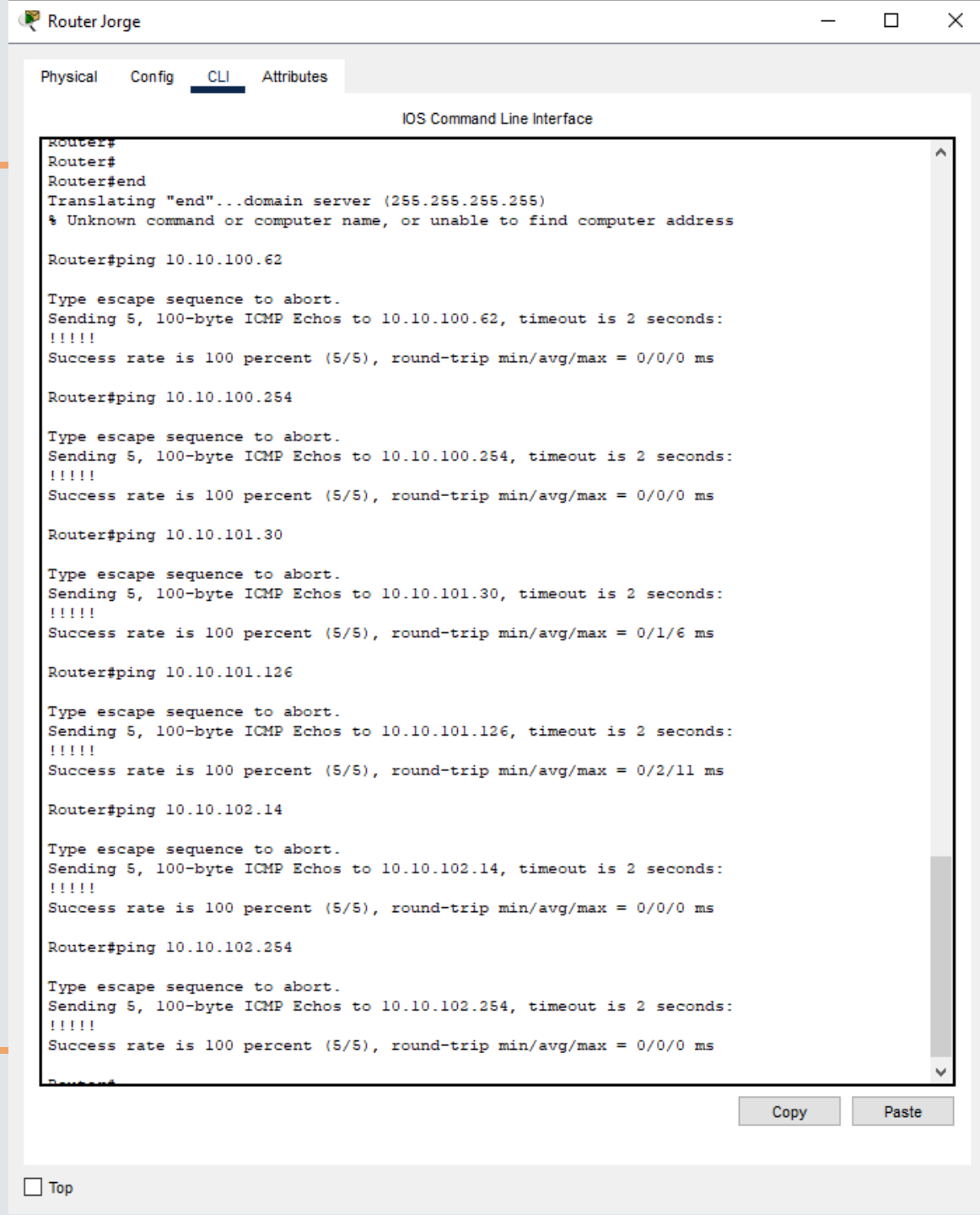


IMAGEN DE
SHOW MAC
ADDRESS-TABLE
DEL SWITCH,
DEBE INCLUIR
LAS MAC
ADDRESS DE
LAS 6 PCS (6
REACTIVOS)

Switch Jorge

Physical Config CLI Attributes

IOS Command Line Interface

```
Switch>
Switch>
Switch>show mac-
Switch>show mac-address-table
      Mac Address Table
-----
```

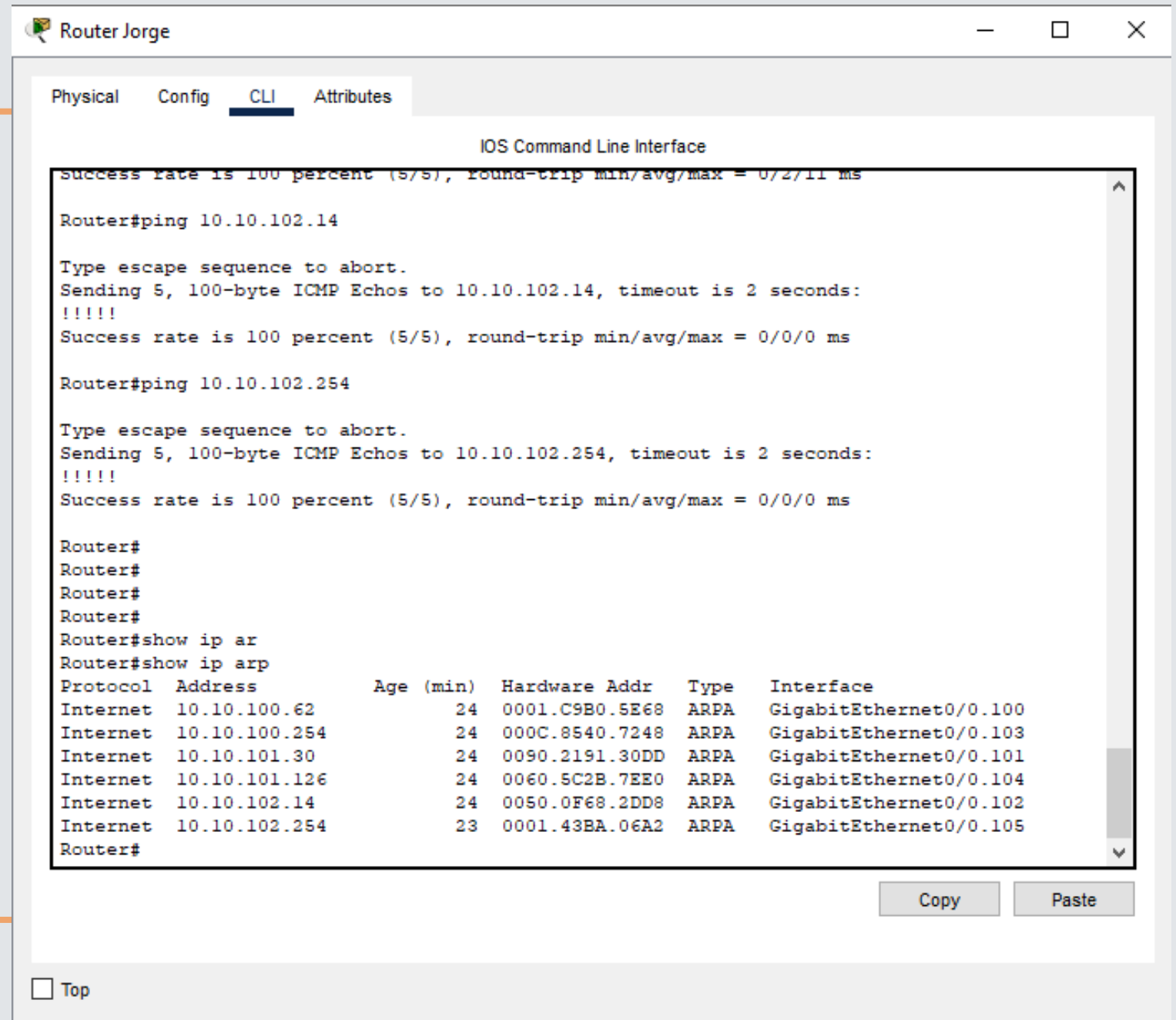
Vlan	Mac Address	Type	Ports
----	-----	-----	-----
1	00d0.ba4c.9201	DYNAMIC	Fa0/24
100	0001.c9b0.5e68	DYNAMIC	Fa0/1
100	00d0.ba4c.9201	DYNAMIC	Fa0/24
101	0090.2191.30dd	DYNAMIC	Fa0/3
101	00d0.ba4c.9201	DYNAMIC	Fa0/24
102	0050.0f68.2dd8	DYNAMIC	Fa0/5
102	00d0.ba4c.9201	DYNAMIC	Fa0/24
103	000c.8540.7248	DYNAMIC	Fa0/2
103	00d0.ba4c.9201	DYNAMIC	Fa0/24
104	0060.5c2b.7ee0	DYNAMIC	Fa0/4
104	00d0.ba4c.9201	DYNAMIC	Fa0/24
105	0001.43ba.06a2	DYNAMIC	Fa0/6
105	00d0.ba4c.9201	DYNAMIC	Fa0/24

```
Switch>
```

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IMAGEN DE
SHOW IP ARP
DEL ROUTER,
DEBE INCLUIR
LA MAC
ADDRESS E IPS
DE LAS 6 PCS (6
REACTIVOS)



The screenshot shows the CLI of a router named 'Router Jorge'. The 'CLI' tab is selected. The interface displays the results of two ping commands and the output of the 'show ip arp' command.

IOS Command Line Interface

```
success rate is 100 percent (5/5), round-trip min/avg/max = 0/2/11 ms

Router#ping 10.10.102.14

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.10.102.14, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/0 ms

Router#ping 10.10.102.254

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.10.102.254, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/0 ms

Router#
Router#
Router#
Router#
Router#show ip ar
Router#show ip arp
```

Protocol	Address	Age (min)	Hardware Addr	Type	Interface
Internet	10.10.100.62	24	0001.C9B0.5E68	ARPA	GigabitEthernet0/0.100
Internet	10.10.100.254	24	000C.8540.7248	ARPA	GigabitEthernet0/0.103
Internet	10.10.101.30	24	0090.2191.30DD	ARPA	GigabitEthernet0/0.101
Internet	10.10.101.126	24	0060.5C2B.7EE0	ARPA	GigabitEthernet0/0.104
Internet	10.10.102.14	24	0050.0F68.2DD8	ARPA	GigabitEthernet0/0.102
Internet	10.10.102.254	23	0001.43BA.06A2	ARPA	GigabitEthernet0/0.105

Router#

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