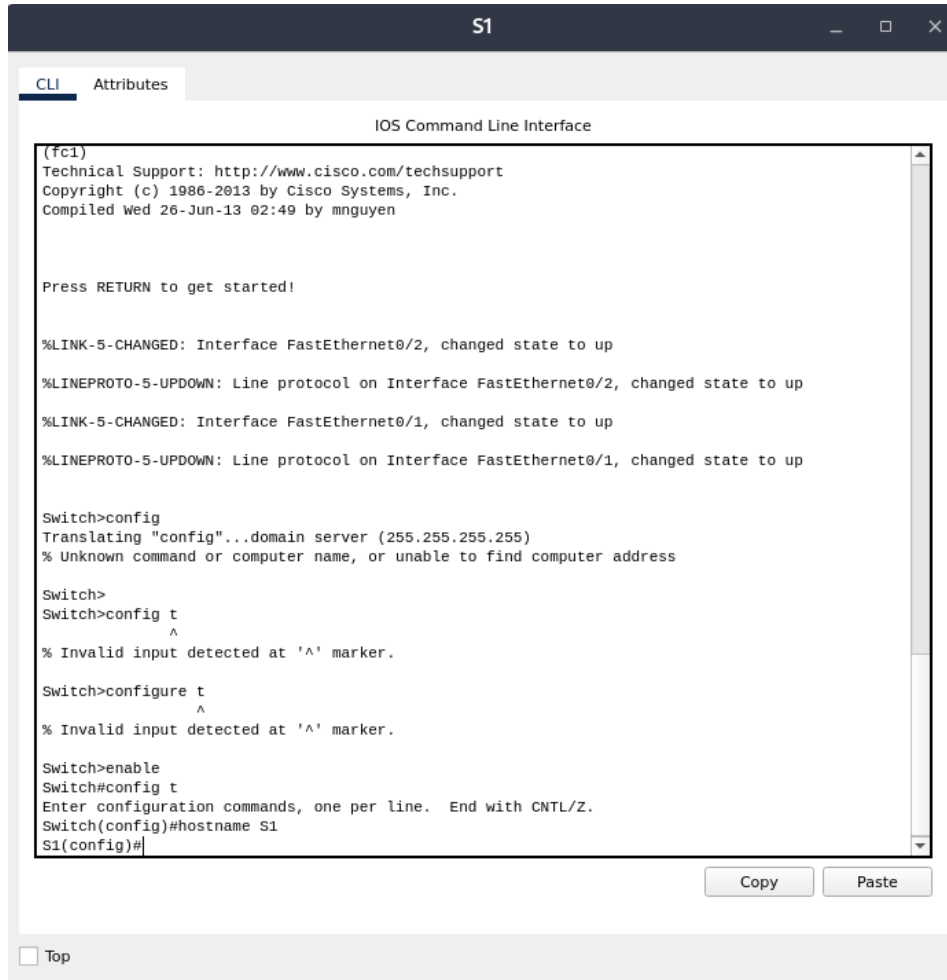


Modulo # 2 – Laboratorio # 4 : Implementacion de Conexion Basica.

Parte 1.

- a. Haga clic en S1 y luego en la pestaña CLI.
- b. Ingrese el comando correcto para configurar el nombre de host como S1.



```
(fc1)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2013 by Cisco Systems, Inc.
Compiled Wed 26-Jun-13 02:49 by mnguyen

Press RETURN to get started!

%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

Switch>config
Translating "config"...domain server (255.255.255.255)
% Unknown command or computer name, or unable to find computer address

Switch>
Switch>config t
      ^
% Invalid input detected at '^' marker.

Switch>configure t
      ^
% Invalid input detected at '^' marker.

Switch>enable
Switch#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#hostname S1
S1(config)#
```

Parte 2.

- Use cisco como la contraseña de la consola.
- Use class para la contraseña del modo EXEC privilegiado.

```
Press RETURN to get started!

%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

Switch>config
Translating "config"...domain server (255.255.255.255)
% Unknown command or computer name, or unable to find computer address

Switch>
Switch>config t
      ^
% Invalid input detected at '^' marker.

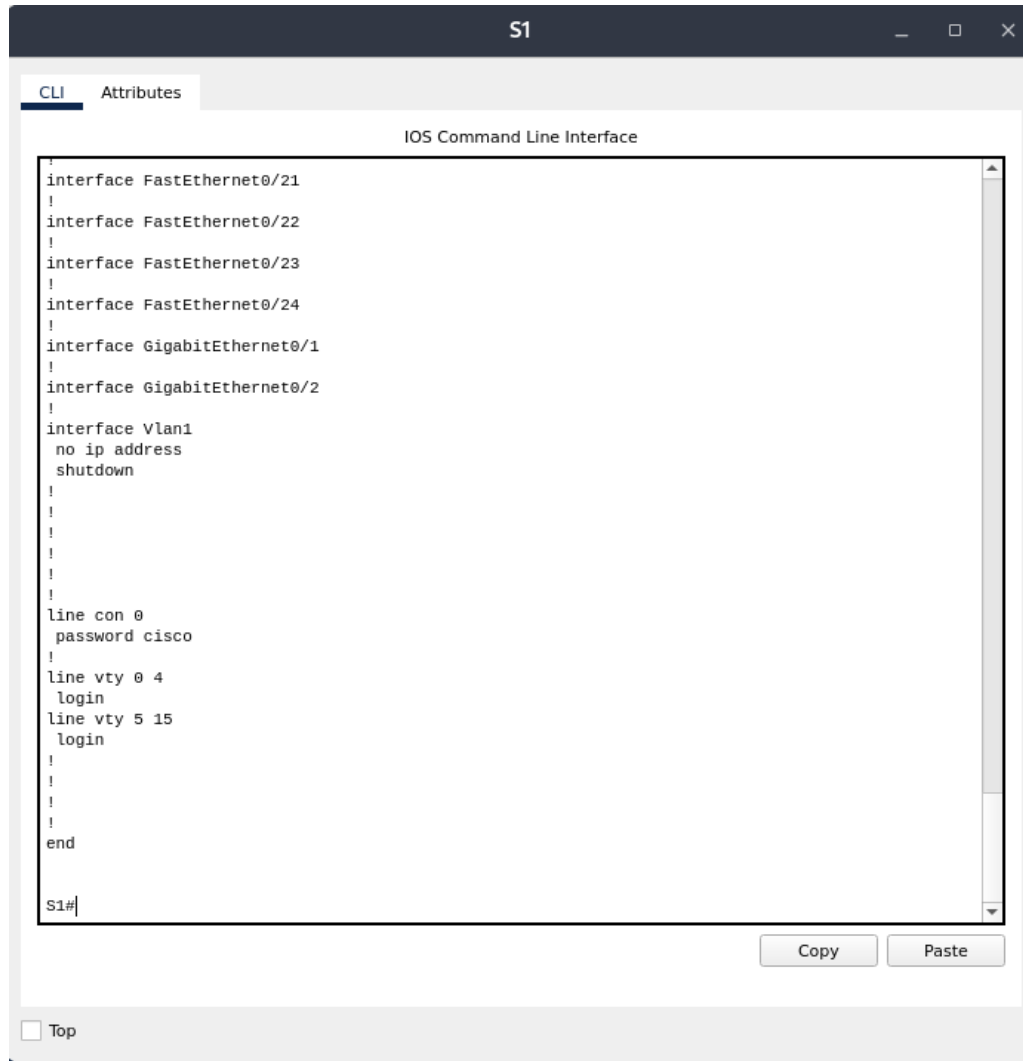
Switch>configure t
      ^
% Invalid input detected at '^' marker.

Switch>enable
Switch#config t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname S1
S1(config)#line console 0
S1(config-line)#password cisco
S1(config-line)#exit
S1(config)#enable password class
S1(config)#
```

Parte 3.

Cómo puede verificar que ambas contraseñas se hayan configurado correctamente?

R/ Utilizando el comando show run.



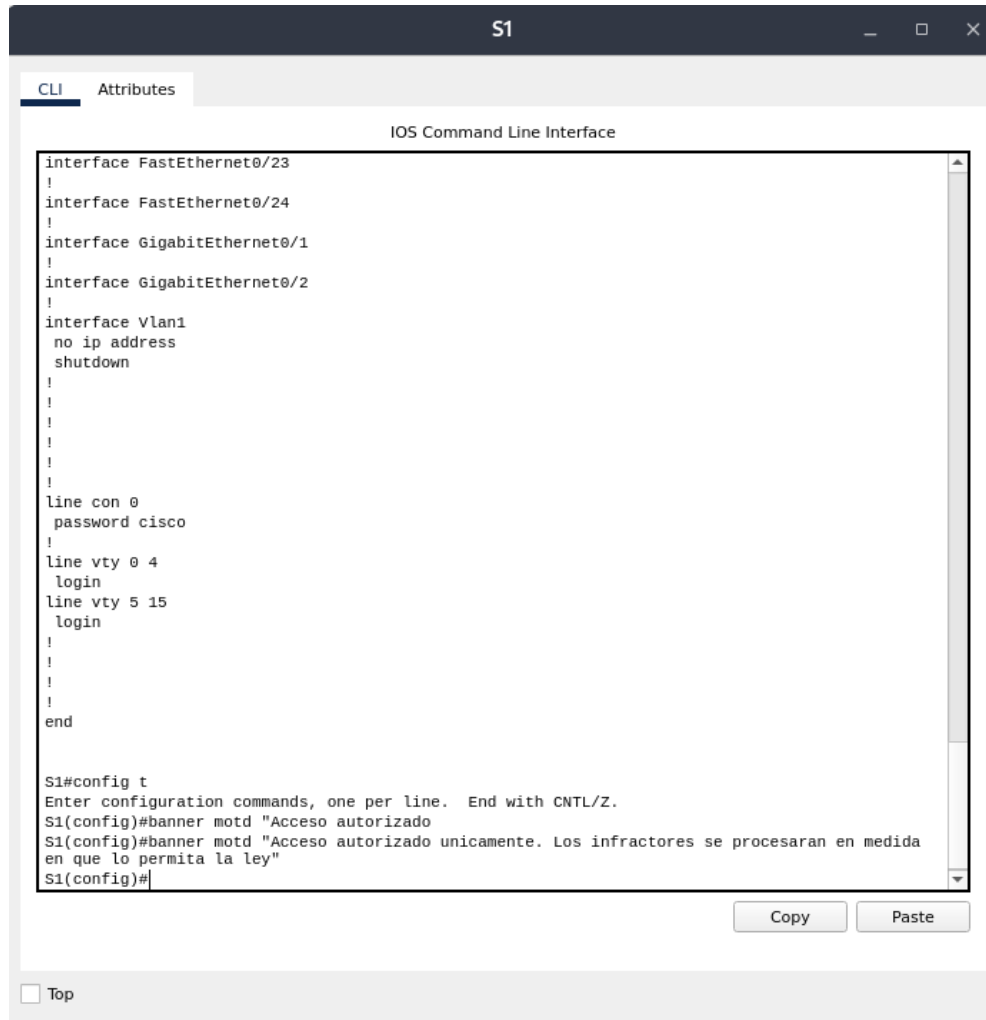
```
interface FastEthernet0/21
!
interface FastEthernet0/22
!
interface FastEthernet0/23
!
interface FastEthernet0/24
!
interface GigabitEthernet0/1
!
interface GigabitEthernet0/2
!
interface Vlan1
no ip address
shutdown
!
!
!
!
!
!
line con 0
password cisco
!
line vty 0 4
login
line vty 5 15
login
!
!
!
end
S1#
```

Copy Paste

☐ Top

Parte 4.

Utilice un texto de aviso adecuado para advertir contra el acceso no autorizado. El siguiente texto es un ejemplo:
Acceso autorizado únicamente. Los infractores se procesarán en la medida en que lo permita la ley.



The screenshot shows a Cisco IOS Command Line Interface (CLI) window titled "S1". The window has two tabs: "CLI" (selected) and "Attributes". The main area displays the following configuration commands:

```
interface FastEthernet0/23
!
interface FastEthernet0/24
!
interface GigabitEthernet0/1
!
interface GigabitEthernet0/2
!
interface Vlan1
  no ip address
  shutdown
!
!
!
!
!
line con 0
  password cisco
!
line vty 0 4
  login
line vty 5 15
  login
!
!
!
end
```

Below the configuration commands, the user enters the command `S1#config t`, and the prompt changes to `S1(config)#`. The user then enters the command `S1(config)#banner motd "Acceso autorizado únicamente. Los infractores se procesaran en medida en que lo permita la ley"`, and the prompt returns to `S1(config)#`.

At the bottom of the window, there are two buttons: "Copy" and "Paste". A checkbox labeled "Top" is located at the bottom left of the window.

Parte 5.

¿Qué comando emite para realizar este paso?

R/ El comando `copy run startup-config`.

IOS Command Line Interface

```
no ip address
shutdown
!
!
!
!
!
!
line con 0
password cisco
!
line vty 0 4
login
line vty 5 15
login
!
!
!
!
end

S1#config t
Enter configuration commands, one per line. End with CNTL/Z.
S1(config)#banner motd "Acceso autorizado
S1(config)#banner motd "Acceso autorizado unicamente. Los infractores se procesaran en medida
en que lo permita la ley"
S1(config)#exit
S1#
%SYS-5-CONFIG_I: Configured from console by console

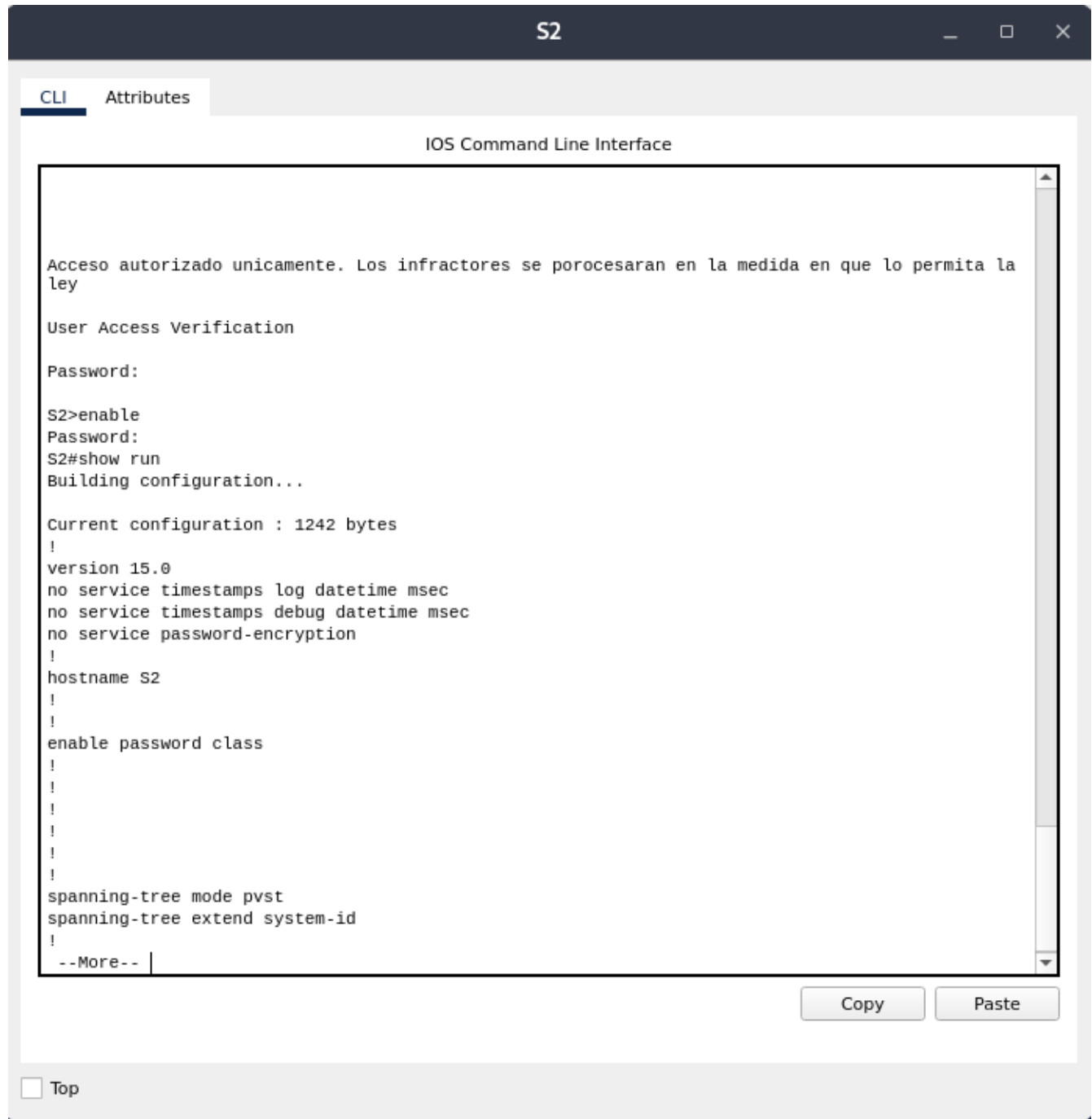
S1#copy run sta
S1#copy run startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
S1#s
```

Copy

Paste

Parte 6.

Misma configuracion para el Switch 2.



Parte 7.

a. Haga clic en PC1 y luego en la ficha Escritorio.

b. Haga clic en Configuración de IP. En la tabla de direccionamiento anterior, puede ver que la dirección IP

para la PC1 es 192.168.1.1 y la máscara de subred es 255.255.255.0. Introduzca esta información para

la PC1 en la ventana Configuración de IP.

c. Repita los pasos 1a y 1b para la PC2.

The screenshot shows the 'PC1' configuration window with the 'Desktop' tab selected. The 'IP Configuration' section is highlighted in blue. Below it, the 'Interface' is set to 'FastEthernet0'. The 'IP Configuration' section has two radio buttons: 'DHCP' (unselected) and 'Static' (selected). The 'Static' configuration fields are filled with: IPv4 Address: 192.168.1.1, Subnet Mask: 255.255.255.0, Default Gateway: 0.0.0.0, and DNS Server: 0.0.0.0. The 'IPv6 Configuration' section has two radio buttons: 'Automatic' (unselected) and 'Static' (selected). The 'Static' configuration fields are empty. The '802.1X' section has a checkbox 'Use 802.1X Security' (unchecked), an 'Authentication' dropdown set to 'MD5', and empty fields for 'Username' and 'Password'. A 'Top' button is at the bottom left.

PC1

Desktop Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 192.168.1.1

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

☐ Top

IP Configuration

X

Interface FastEthernet0

IP Configuration

☐ DHCP☒ Static

IPv4 Address

192.168.1.2

Subnet Mask

255.255.255.0

Default Gateway

0.0.0.0

DNS Server

0.0.0.0

IPv6 Configuration

☐ Automatic☒ Static

IPv6 Address

Link Local Address

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication

MD5

Username

Password

☐ Top

Parte 8.

a. Haga clic en PC1. Cierre la ventana Configuración de IP si todavía está abierta. En la ficha Escritorio,

haga clic en Símbolo del sistema.

b. Escriba el comando ping y la dirección IP para S1 y presione Enter.

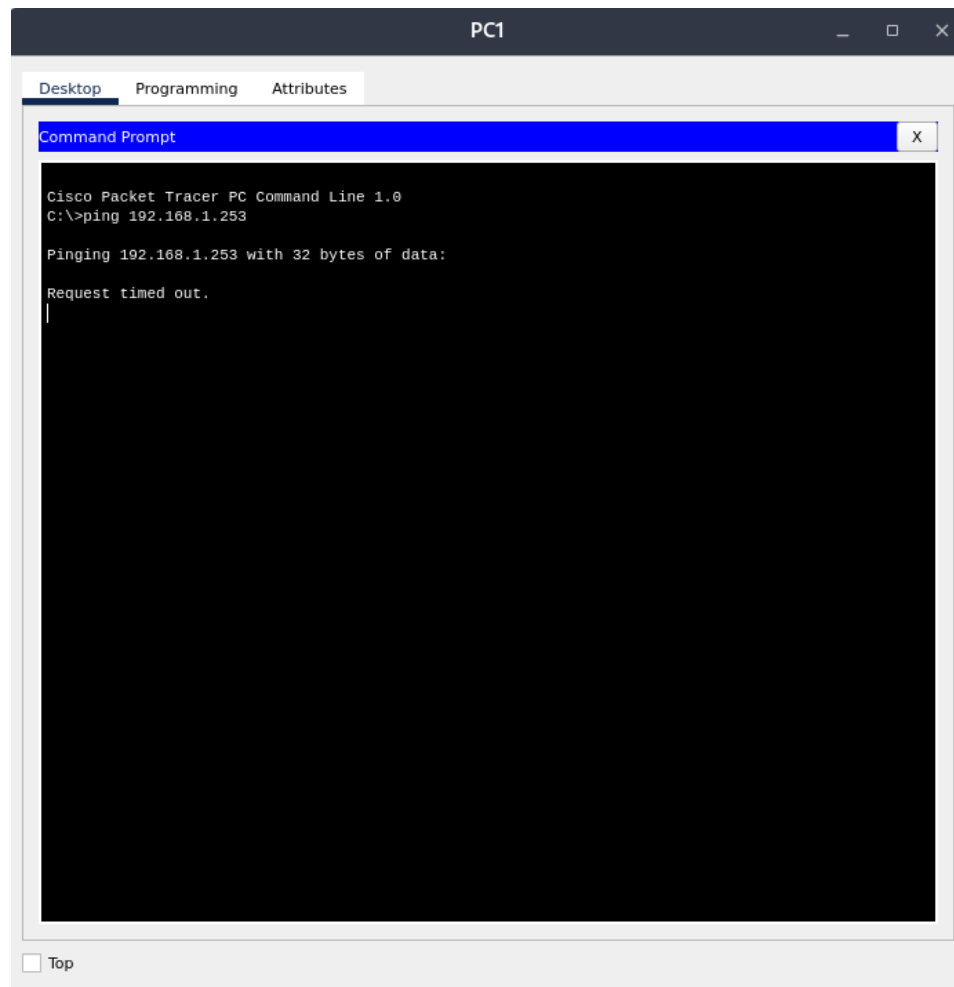
Packet Tracer PC Línea de comandos 1.0

PC> ping 192.168.1.253

Pregunta:

¿Tuvo éxito? Explique.

R/ No tuvo éxito la operación debido a que el Switch1 no tiene una dirección IP configurada.



Parte 9.

S1# configure terminal

Enter configuration commands, one per line. Finalice con CNTL/Z.

S1(config)# interface vlan 1

S1(config-if)# ip address 192.168.1.253 255.255.255.0

S1(config-if)# no shutdown

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up

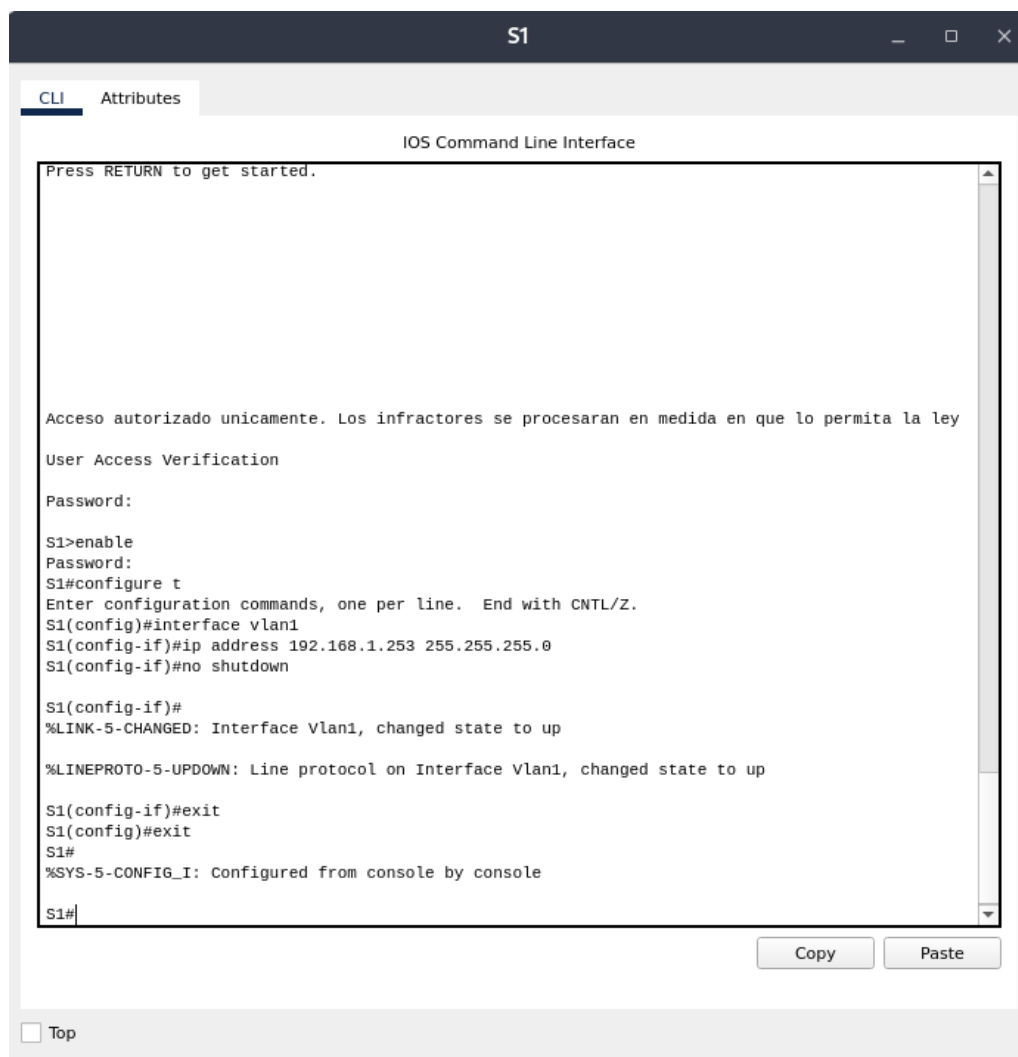
S1(config-if)#

S1(config-if)# exit

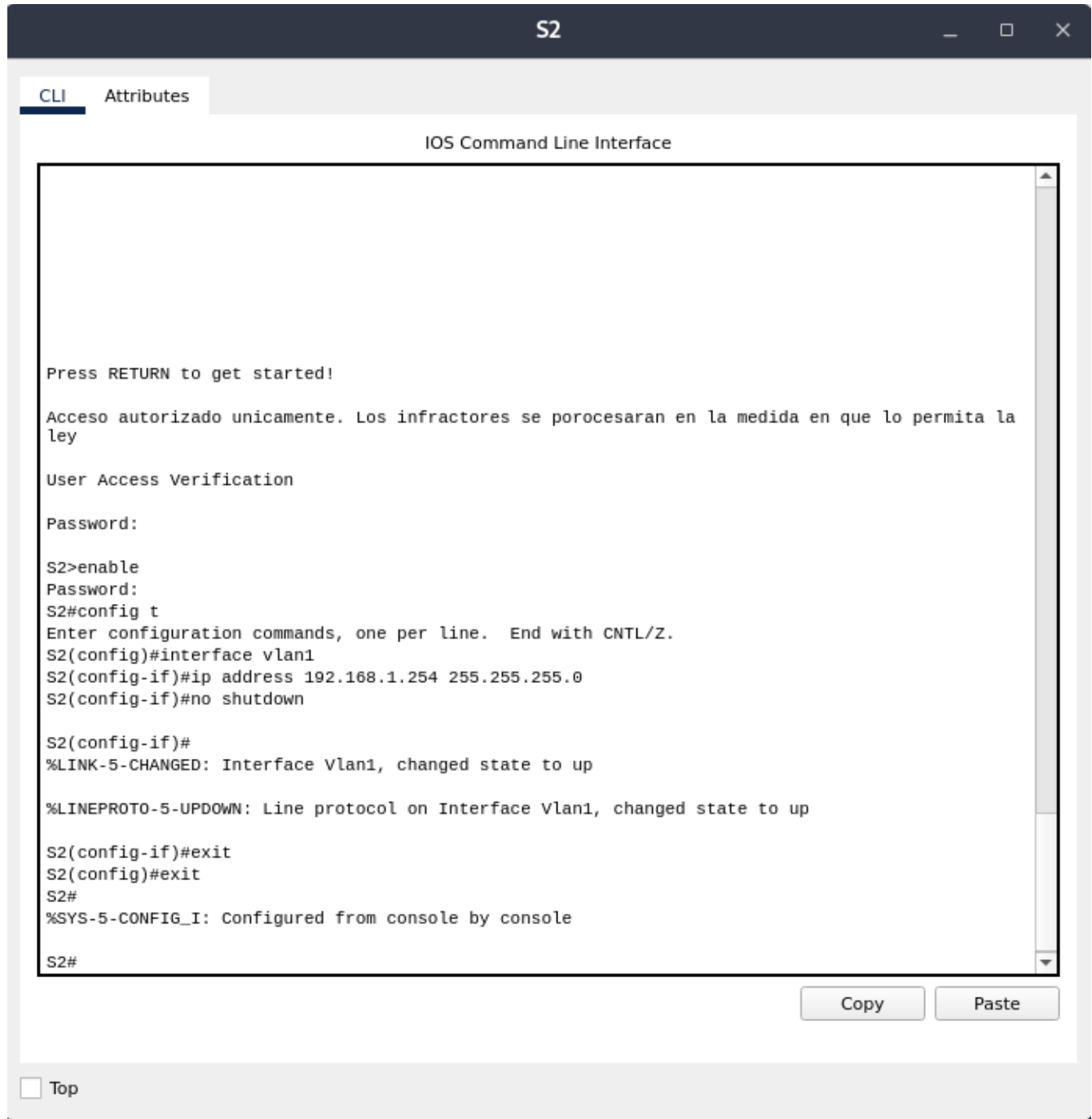
S1

¿Por qué debe introducir el comando no shutdown?

R/ El no shutdown es al momento de salir el vlan1 se mantenga activo en todo el momento.

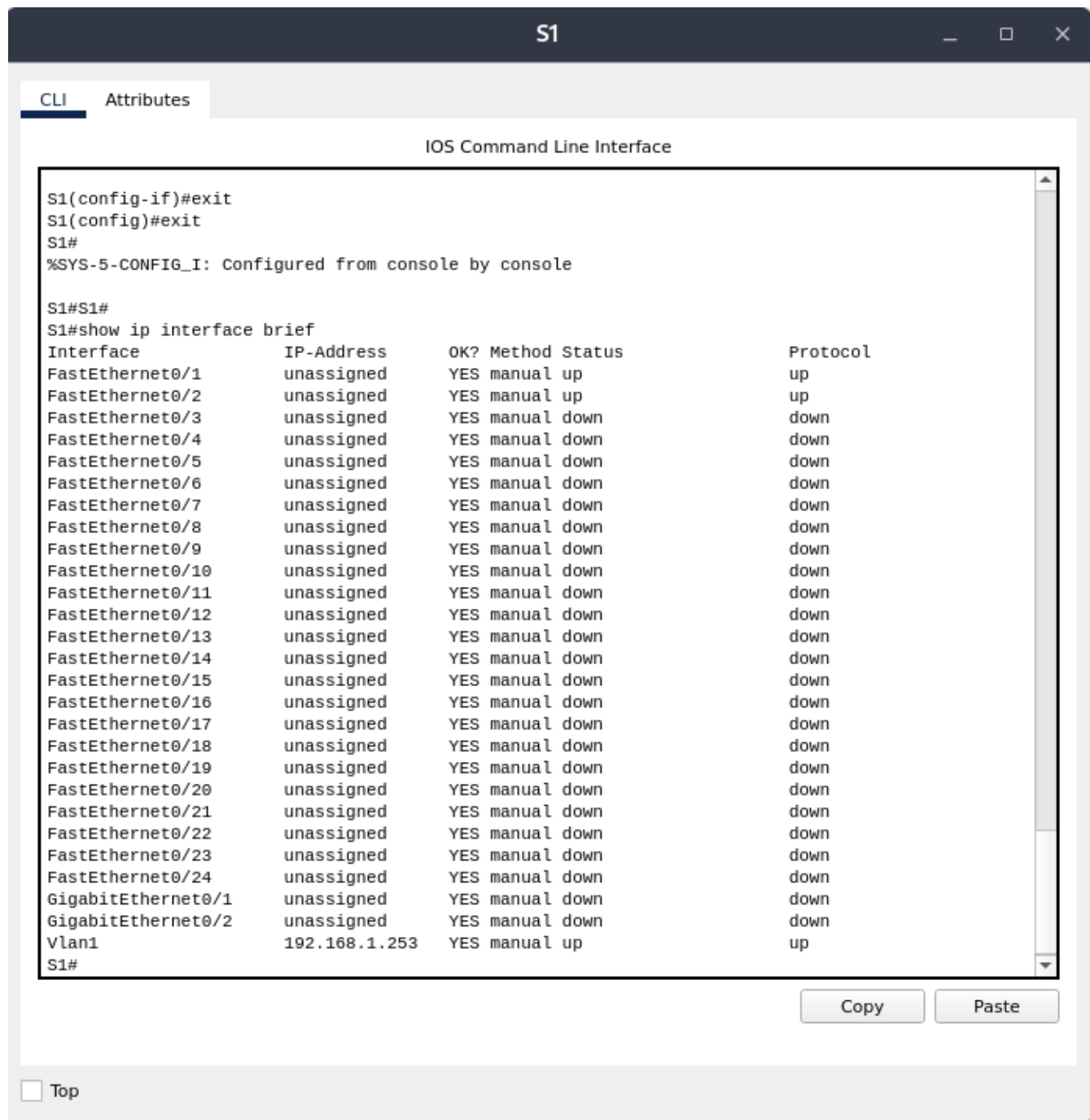


Lo mismo para el S2.



Parte 10.

Use el comando `show ip interface brief` para ver la dirección IP y el estado de todos los puertos y las interfaces del switch. También puede utilizar el comando `show running-config`.



The screenshot shows a Cisco switch CLI window titled "S1". The window has two tabs: "CLI" (selected) and "Attributes". The CLI tab displays the "IOS Command Line Interface" with the following text:

```
S1(config-if)#exit
S1(config)#exit
S1#
%SYS-5-CONFIG_I: Configured from console by console

S1#S1#
S1#show ip interface brief
```

Interface	IP-Address	OK?	Method	Status	Protocol
FastEthernet0/1	unassigned	YES	manual	up	up
FastEthernet0/2	unassigned	YES	manual	up	up
FastEthernet0/3	unassigned	YES	manual	down	down
FastEthernet0/4	unassigned	YES	manual	down	down
FastEthernet0/5	unassigned	YES	manual	down	down
FastEthernet0/6	unassigned	YES	manual	down	down
FastEthernet0/7	unassigned	YES	manual	down	down
FastEthernet0/8	unassigned	YES	manual	down	down
FastEthernet0/9	unassigned	YES	manual	down	down
FastEthernet0/10	unassigned	YES	manual	down	down
FastEthernet0/11	unassigned	YES	manual	down	down
FastEthernet0/12	unassigned	YES	manual	down	down
FastEthernet0/13	unassigned	YES	manual	down	down
FastEthernet0/14	unassigned	YES	manual	down	down
FastEthernet0/15	unassigned	YES	manual	down	down
FastEthernet0/16	unassigned	YES	manual	down	down
FastEthernet0/17	unassigned	YES	manual	down	down
FastEthernet0/18	unassigned	YES	manual	down	down
FastEthernet0/19	unassigned	YES	manual	down	down
FastEthernet0/20	unassigned	YES	manual	down	down
FastEthernet0/21	unassigned	YES	manual	down	down
FastEthernet0/22	unassigned	YES	manual	down	down
FastEthernet0/23	unassigned	YES	manual	down	down
FastEthernet0/24	unassigned	YES	manual	down	down
GigabitEthernet0/1	unassigned	YES	manual	down	down
GigabitEthernet0/2	unassigned	YES	manual	down	down
Vlan1	192.168.1.253	YES	manual	up	up

The output shows the status of all interfaces. Most are unassigned and down, except for Vlan1 which is assigned the IP address 192.168.1.253 and is up. The window also includes a "Copy" button and a "Paste" button at the bottom right, and a "Top" button at the bottom left.

IOS Command Line Interface

```
S2(config-if)#exit
S2(config)#exit
S2#
%SYS-5-CONFIG_I: Configured from console by console

S2#S2#
S2#show ip interface brief
Interface                IP-Address      OK? Method Status        Protocol
FastEthernet0/1          unassigned      YES manual up            up
FastEthernet0/2          unassigned      YES manual up            up
FastEthernet0/3          unassigned      YES manual down          down
FastEthernet0/4          unassigned      YES manual down          down
FastEthernet0/5          unassigned      YES manual down          down
FastEthernet0/6          unassigned      YES manual down          down
FastEthernet0/7          unassigned      YES manual down          down
FastEthernet0/8          unassigned      YES manual down          down
FastEthernet0/9          unassigned      YES manual down          down
FastEthernet0/10         unassigned      YES manual down          down
FastEthernet0/11         unassigned      YES manual down          down
FastEthernet0/12         unassigned      YES manual down          down
FastEthernet0/13         unassigned      YES manual down          down
FastEthernet0/14         unassigned      YES manual down          down
FastEthernet0/15         unassigned      YES manual down          down
FastEthernet0/16         unassigned      YES manual down          down
FastEthernet0/17         unassigned      YES manual down          down
FastEthernet0/18         unassigned      YES manual down          down
FastEthernet0/19         unassigned      YES manual down          down
FastEthernet0/20         unassigned      YES manual down          down
FastEthernet0/21         unassigned      YES manual down          down
FastEthernet0/22         unassigned      YES manual down          down
FastEthernet0/23         unassigned      YES manual down          down
FastEthernet0/24         unassigned      YES manual down          down
GigabitEthernet0/1       unassigned      YES manual down          down
GigabitEthernet0/2       unassigned      YES manual down          down
Vlan1                    192.168.1.254   YES manual up            up
S2#
```

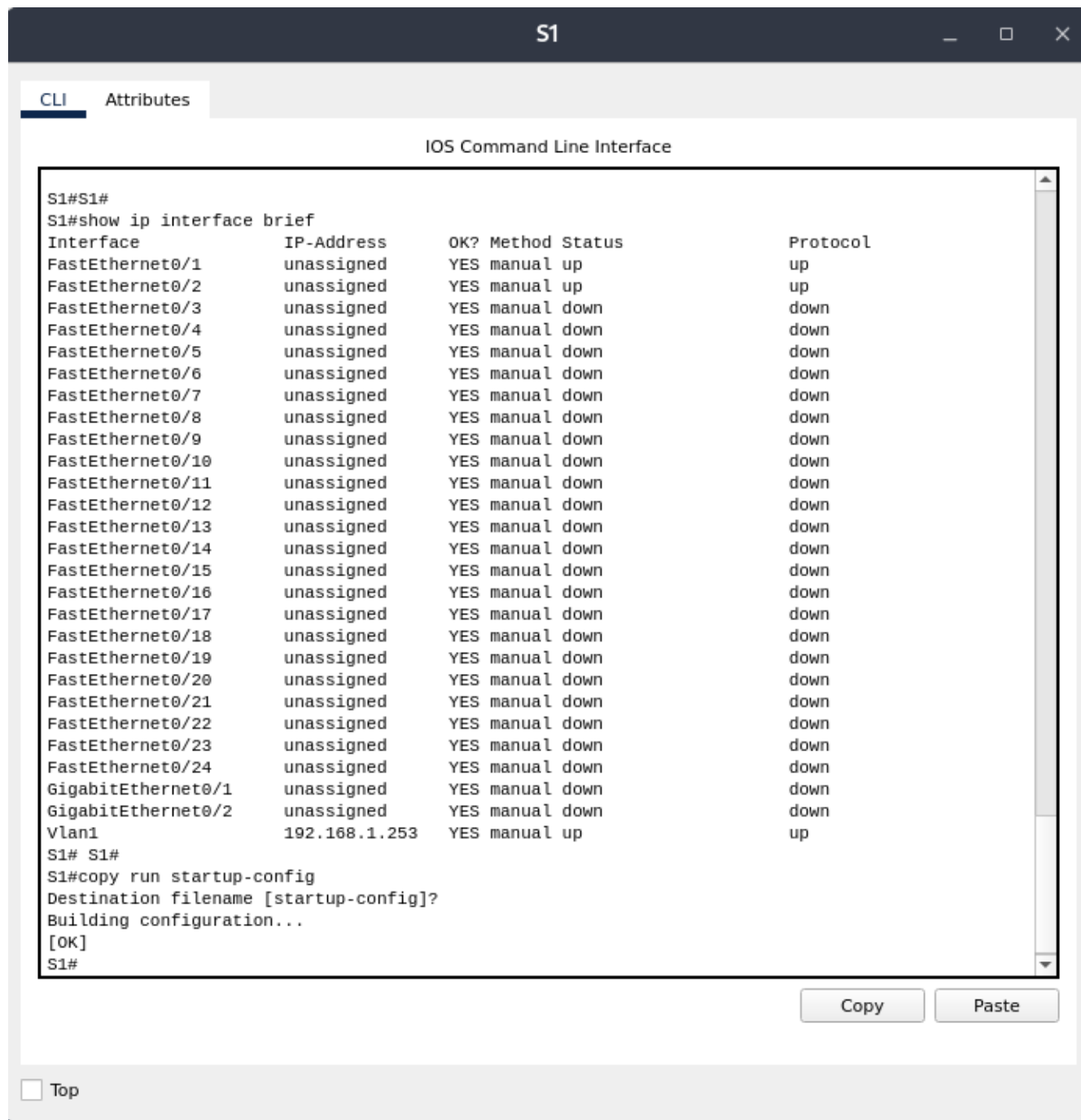
Copy

Paste

Parte 11.

¿Qué comando se utiliza para guardar en la NVRAM el archivo de configuración que se encuentra en la RAM?

R/ copy run startup-config



The screenshot shows a Cisco IOS Command Line Interface (CLI) window titled "S1". The window has two tabs: "CLI" (selected) and "Attributes". The main content area displays the output of the command "show ip interface brief".

Interface	IP-Address	OK?	Method	Status	Protocol
FastEthernet0/1	unassigned	YES	manual	up	up
FastEthernet0/2	unassigned	YES	manual	up	up
FastEthernet0/3	unassigned	YES	manual	down	down
FastEthernet0/4	unassigned	YES	manual	down	down
FastEthernet0/5	unassigned	YES	manual	down	down
FastEthernet0/6	unassigned	YES	manual	down	down
FastEthernet0/7	unassigned	YES	manual	down	down
FastEthernet0/8	unassigned	YES	manual	down	down
FastEthernet0/9	unassigned	YES	manual	down	down
FastEthernet0/10	unassigned	YES	manual	down	down
FastEthernet0/11	unassigned	YES	manual	down	down
FastEthernet0/12	unassigned	YES	manual	down	down
FastEthernet0/13	unassigned	YES	manual	down	down
FastEthernet0/14	unassigned	YES	manual	down	down
FastEthernet0/15	unassigned	YES	manual	down	down
FastEthernet0/16	unassigned	YES	manual	down	down
FastEthernet0/17	unassigned	YES	manual	down	down
FastEthernet0/18	unassigned	YES	manual	down	down
FastEthernet0/19	unassigned	YES	manual	down	down
FastEthernet0/20	unassigned	YES	manual	down	down
FastEthernet0/21	unassigned	YES	manual	down	down
FastEthernet0/22	unassigned	YES	manual	down	down
FastEthernet0/23	unassigned	YES	manual	down	down
FastEthernet0/24	unassigned	YES	manual	down	down
GigabitEthernet0/1	unassigned	YES	manual	down	down
GigabitEthernet0/2	unassigned	YES	manual	down	down
Vlan1	192.168.1.253	YES	manual	up	up

Below the table, the following commands are entered:

```
S1# S1#  
S1#copy run startup-config  
Destination filename [startup-config]?  
Building configuration...  
[OK]  
S1#
```

At the bottom of the window, there are two buttons: "Copy" and "Paste". A "Top" link is also visible in the bottom left corner.

S2

CLI Attributes

IOS Command Line Interface

```
Vlan1          192.168.1.254  YES manual up
S2#S2#
S2#copy run start
S2#copy run startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
S2#exit
```

S2 con0 is now available

Press RETURN to get started.

Copy

Paste

☐ Top

Parte 12.

- a. Haga clic en PC1 y luego en la ficha Escritorio.**
- b. Haga clic en Símbolo del sistema.**
- c. Haga ping a la dirección IP de la PC2.**
- d. Haga ping a la dirección IP del S1.**
- e. Haga ping a la dirección IP del S2.**

Command Prompt

X

Cisco Packet Tracer PC Command Line 1.0

C:\>ping 192.168.1.253

Pinging 192.168.1.253 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

Request timed out.

Ping statistics for 192.168.1.253:

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

C:\>ping -c 1 192.168.1.2

Invalid Command.

C:\>ping help

Ping request could not find host help. Please check the name and try again.

C:\>clear

Invalid Command.

C:\>ping 192.168.1.2

Pinging 192.168.1.2 with 32 bytes of data:

Reply from 192.168.1.2: bytes=32 time<1ms TTL=128

Reply from 192.168.1.2: bytes=32 time<1ms TTL=128

Reply from 192.168.1.2: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.2:

Packets: Sent = 3, Received = 3, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

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

Control-C

^C

C:\>|

Command Prompt

X

```
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.2:
    Packets: Sent = 3, Received = 3, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

Control-C
^C
C:\>ping 192.168.1.253

Pinging 192.168.1.253 with 32 bytes of data:

Request timed out.
Reply from 192.168.1.253: bytes=32 time<1ms TTL=255
Reply from 192.168.1.253: bytes=32 time<1ms TTL=255
Reply from 192.168.1.253: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.1.253:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.1.253

Pinging 192.168.1.253 with 32 bytes of data:

Reply from 192.168.1.253: bytes=32 time<1ms TTL=255
Reply from 192.168.1.253: bytes=32 time<1ms TTL=255
Reply from 192.168.1.253: bytes=32 time<1ms TTL=255
Reply from 192.168.1.253: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.1.253:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

Command Prompt

```
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.1.253

Pinging 192.168.1.253 with 32 bytes of data:

Reply from 192.168.1.253: bytes=32 time<1ms TTL=255
Reply from 192.168.1.253: bytes=32 time<1ms TTL=255
Reply from 192.168.1.253: bytes=32 time<1ms TTL=255
Reply from 192.168.1.253: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.1.253:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.1.254

Pinging 192.168.1.254 with 32 bytes of data:

Request timed out.
Reply from 192.168.1.254: bytes=32 time<1ms TTL=255
Reply from 192.168.1.254: bytes=32 time<1ms TTL=255
Reply from 192.168.1.254: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.1.254:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.1.254

Pinging 192.168.1.254 with 32 bytes of data:

Reply from 192.168.1.254: bytes=32 time<1ms TTL=255
Reply from 192.168.1.254: bytes=32 time<1ms TTL=255
Reply from 192.168.1.254: bytes=32 time<1ms TTL=255
```

