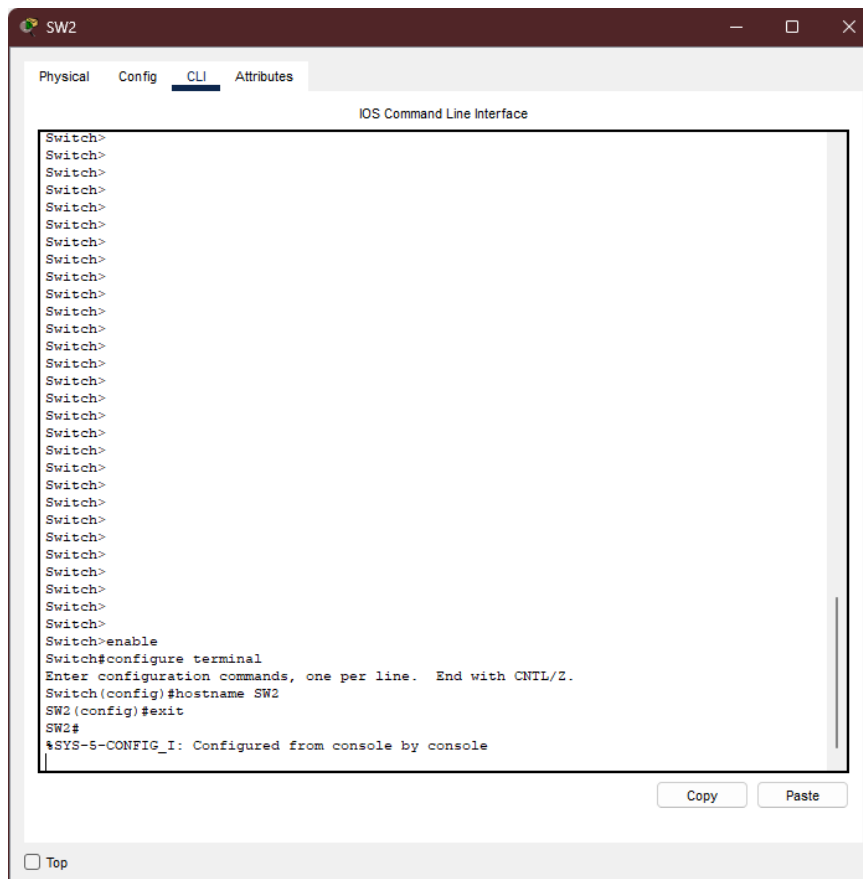
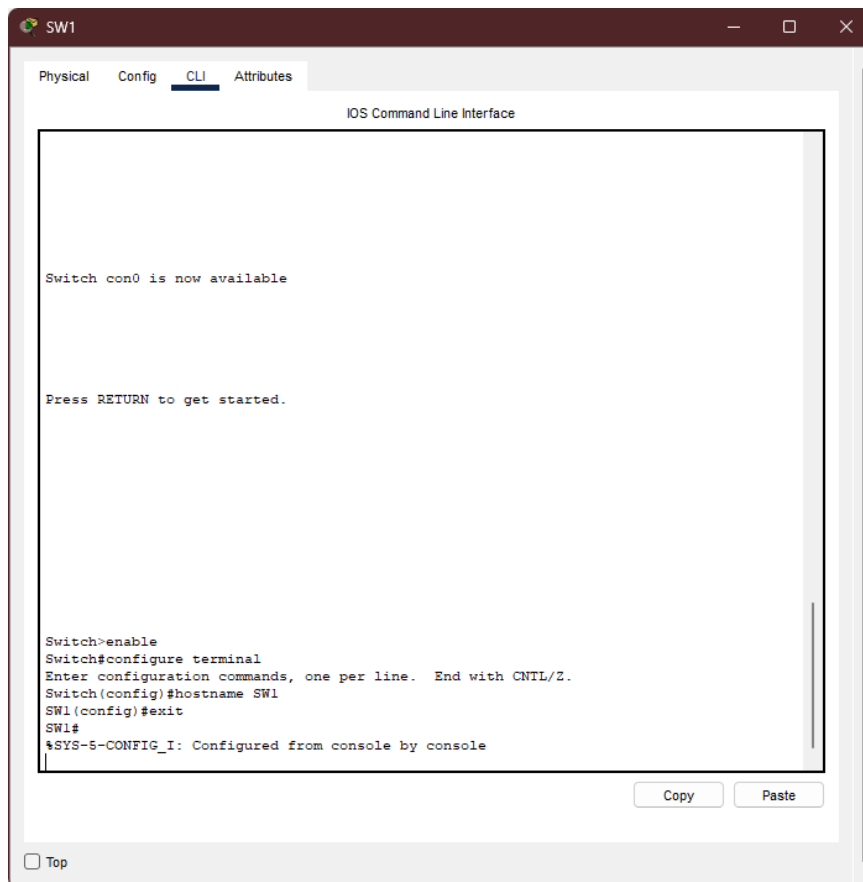
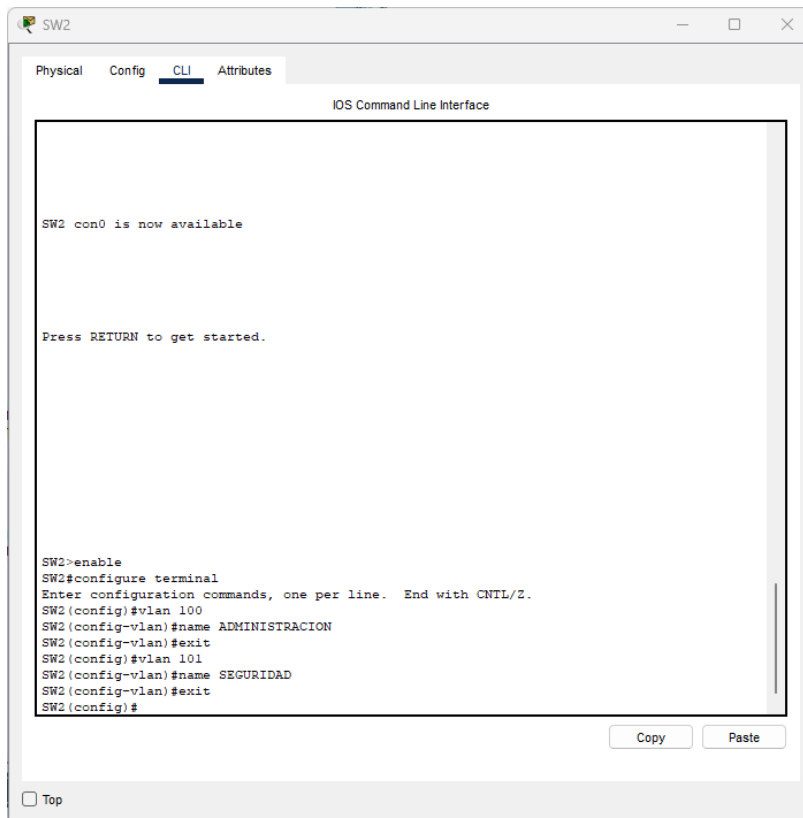
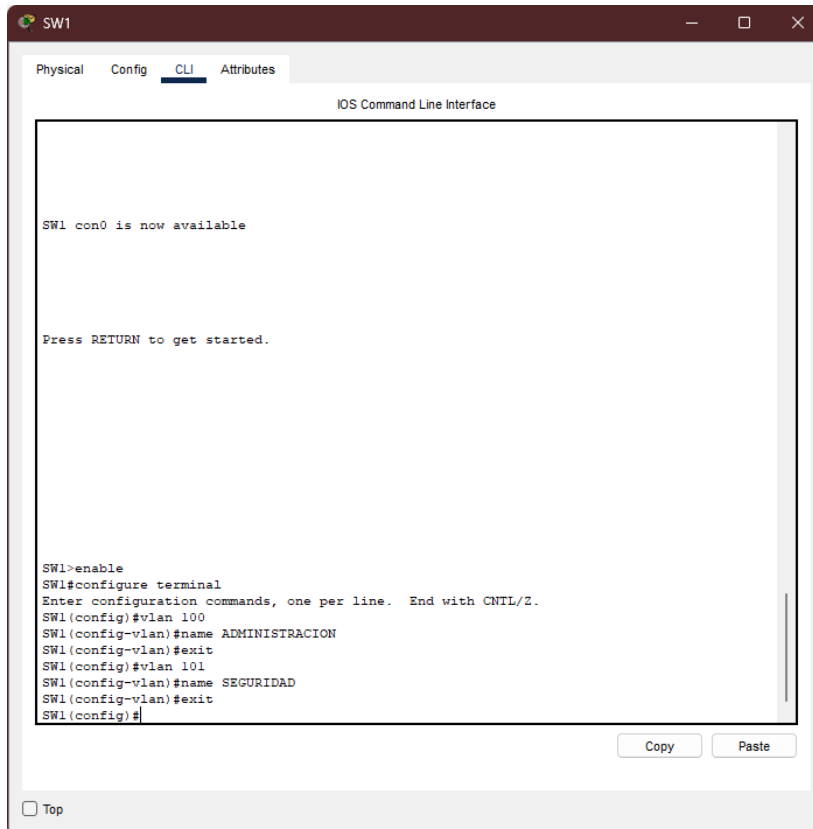


1- Los switches deben tener los nombres SW1 y SW2.



2- Las VLANs deben tener los siguientes nombres: ADMINISTRACIÓN para la VLAN100 y SEGURIDAD para la VLAN101.



3- Los switches deben tener contraseña de acceso a la configuración y acceso mediante TelNet.

The screenshot shows a web-based interface for a Cisco switch named SW1. The top navigation bar has tabs for Physical, Config, CLI (selected), and Attributes. The main area is titled "IOS Command Line Interface". It displays a terminal session where the user enters various commands to configure the switch:

```
SW1#  
SW1#  
SW1#  
SW1#  
SW1#  
SW1#  
SW1#  
SW1#  
SW1#  
SW1#  
SW1#  
SW1#  
SW1#  
SW1#  
SW1#config  
Configuring from terminal, memory, or network [terminal]?  
Enter configuration commands, one per line. End with CNTL/Z.  
SW1(config)#interface vlan100  
SW1(config-if)#  
%LINK-5-CHANGED: Interface Vlan100, changed state to up  
  
SW1(config-if)#interface vlan100  
SW1(config-if)#ip address 192.168.1.1 255.255.255.0  
SW1(config-if)#line vty 0 4  
SW1(config-line)#login  
SW1(config-line)#privilege level 15  
SW1(config-line)#service password-encryption  
SW1(config)^Z  
SW1#  
%SYS-5-CONFIG_I: Configured from console by console  
  
SW1#write  
Building configuration...  
[OK]  
SW1#
```

At the bottom right of the terminal window are two buttons: "Copy" and "Paste". At the very bottom left of the browser window is a checkbox labeled "Top".

The screenshot displays the Cisco Packet Tracer software window. At the top, there are tabs for "Physical", "Config", "CLI", and "Attributes". The "CLI" tab is selected, showing the "IOS Command Line Interface" for device "SW2".

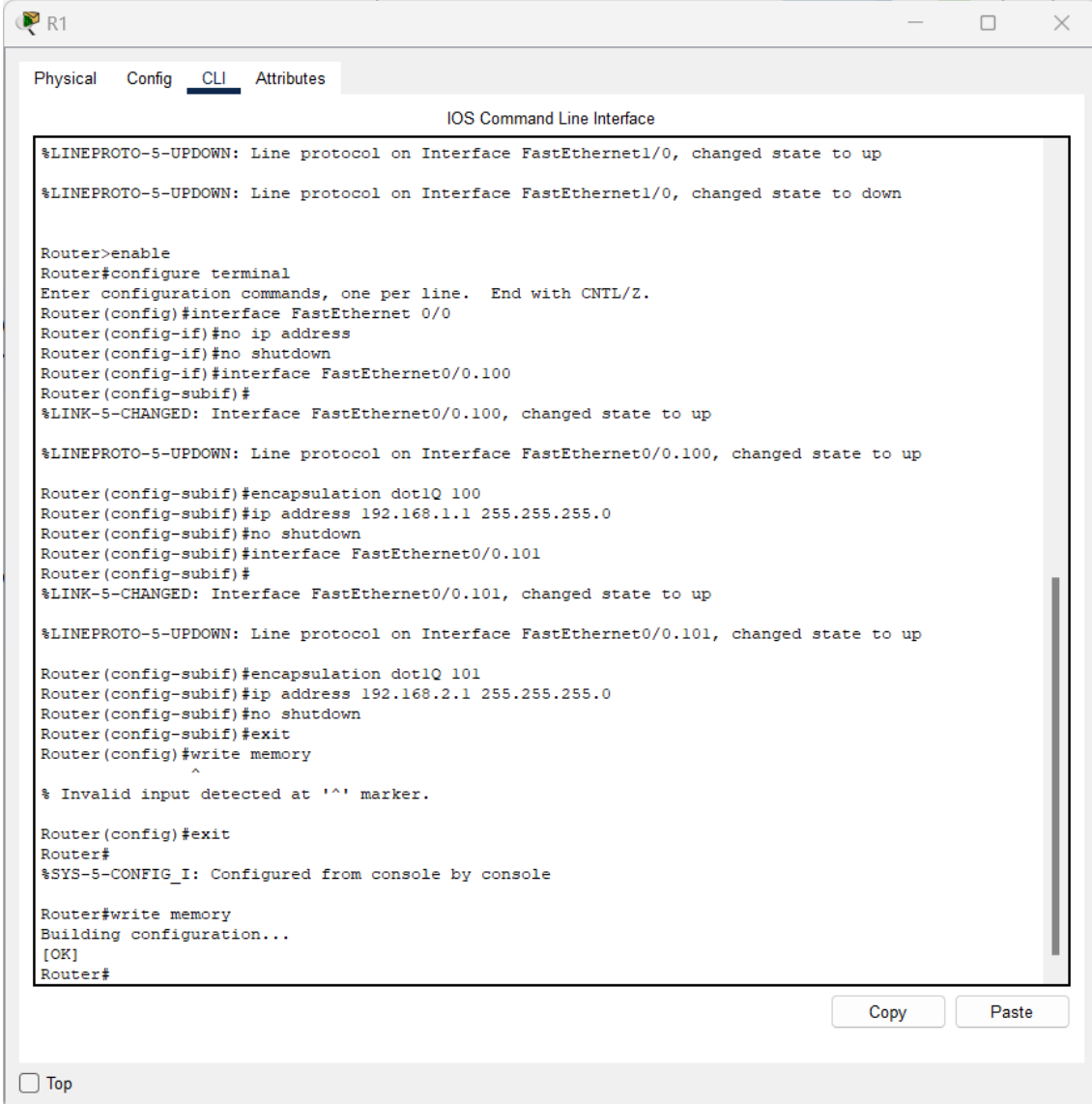
The command prompt shows the following sequence of commands and outputs:

```
SW2(config)#  
SW2(config)#  
SW2(config)#  
SW2(config)#  
SW2(config)#  
SW2(config)#  
SW2(config)#  
SW2(config)#  
SW2(config)#  
SW2(config)#  
SW2(config)#  
SW2(config)#  
SW2(config)#  
SW2(config)#  
SW2(config)#  
SW2(config)#  
SW2(config)#  
SW2(config)#  
SW2(config)#  
SW2(config)#interface vlan 101  
SW2(config-if)#ip address 192.168.2.1 255.255.255.0  
SW2(config-if)#line vty 0 4  
SW2(config-line)#login  
SW2(config-line)#privilege level 15  
SW2(config-line)#service password-encryption  
SW2(config)#write  
^  
% Invalid input detected at '^' marker.  
  
SW2(config)#^Z  
SW2#  
%SYS-5-CONFIG_I: Configured from console by console  
  
SW2#write  
Building configuration...  
[OK]  
SW2#
```

4- Cada switch tendrá la primera IP de la correspondiente VLAN.

En el apartado 3 ya se asignaron las IPs*

5- Dividir la interfaz del router para que haya conexión a este por parte de la red.



```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet 0/0
Router(config-if)#no ip address
Router(config-if)#no shutdown
Router(config-if)#interface FastEthernet0/0.100
Router(config-subif)#
%LINK-5-CHANGED: Interface FastEthernet0/0.100, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.100, changed state to up
Router(config-subif)#encapsulation dot1Q 100
Router(config-subif)#ip address 192.168.1.1 255.255.255.0
Router(config-subif)#no shutdown
Router(config-subif)#interface FastEthernet0/0.101
Router(config-subif)#
%LINK-5-CHANGED: Interface FastEthernet0/0.101, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.101, changed state to up
Router(config-subif)#encapsulation dot1Q 101
Router(config-subif)#ip address 192.168.2.1 255.255.255.0
Router(config-subif)#no shutdown
Router(config-subif)#exit
Router(config)#write memory
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
Router#write memory
Building configuration...
[OK]
Router#
```

6- Elegir las interfaces que quieran utilizar para cada VLAN y comprobar su funcionamiento.

```
SW1
Physical Config CLI Attributes
IOS Command Line Interface

%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/3, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/4, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/4, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up

User Access Verification

Password:

SW1>configure terminal
^
% Invalid input detected at '^' marker.

SW1#enable
SW1#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
SW1(config)#interface FastEthernet0/1
SW1(config-if)#switchport mode access
SW1(config-if)#switchport access vlan 100
SW1(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan100, changed state to up

SW1(config-if)#no shutdown
SW1(config-if)#exit
SW1(config)#interface FastEthernet0/2
SW1(config-if)#switchport mode access
SW1(config-if)#switchport access vlan 101
SW1(config-if)#no shutdown
SW1(config-if)#exit
```

The screenshot shows a Cisco Packet Tracer window titled "SW2". At the top, there are three tabs: "Physical", "Config", and "CLI". The "CLI" tab is selected and highlighted. Below the tabs, the title "IOS Command Line Interface" is displayed. The main area contains a terminal window with a black background and white text. The text shows a series of commands entered at the prompt "SW2(config)#". The first 18 prompts are followed by nothing, indicating they were executed without output shown. Then, the command "interface FastEthernet0/1" is entered, followed by "switchport mode access", "switchport access vlan 100", and "no shutdown". After each of these four commands, the prompt returns to "SW2(config)#". Following this, the command "exit" is entered, returning the prompt to "SW2(config)". Then, a system message appears: "%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on FastEthernet0/1 (100), with SW1 FastEthernet0/2 (101).". This is followed by another set of four commands: "interface FastEthernet0/2", "switchport mode access", "switchport access vlan 101", and "no shutdown", each followed by the "SW2(config)#" prompt. Finally, the command "exit" is entered, and a status message appears: "%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan101, changed state to up". The last line shows the prompt "SW2(config)#". At the bottom right of the terminal window, there are two buttons labeled "Copy" and "Paste". In the bottom left corner of the overall window, there is a checkbox labeled "Top".

Physical Config **CLI** Attributes

IOS Command Line Interface

```
FastEthernet0/2 (101).
%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on FastEthernet0/1 (100), with SW1
FastEthernet0/2 (101).
%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on FastEthernet0/1 (100), with SW1
FastEthernet0/2 (101).
%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on FastEthernet0/1 (100), with SW1
FastEthernet0/2 (101).

SW2(config)#show lan brief
% Invalid input detected at '^' marker.

SW2(config)#exit
SW2#
%SYS-5-CONFIG_I: Configured from console by console

SW2#show lan brief
% Invalid input detected at '^' marker.

SW2#show vlan brief
```

VLAN Name	Status	Ports
1 default	active	Fa0/3, Fa0/4, Fa0/5, Fa0/6 Fa0/7, Fa0/8, Fa0/9, Fa0/10 Fa0/11, Fa0/12, Fa0/13, Fa0/14 Fa0/15, Fa0/16, Fa0/17, Fa0/18 Fa0/19, Fa0/20, Fa0/21, Fa0/22 Fa0/23, Fa0/24, Gig0/1, Gig0/2
100 ADMINISTRACION	active	Fa0/1
101 SEGURIDAD	active	Fa0/2
1002 fddi-default	active	
1003 token-ring-default	active	
1004 fddinet-default	active	
1005 trnet-default	active	

```
SW2#show running-config
%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on FastEthernet0/1 (100), with SW1
FastEthernet0/2 (101).
```

Copy Paste

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Physical Config **CLI** Attributes

IOS Command Line Interface

```
FastEthernet0/1 (100).
%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on FastEthernet0/2 (101), with SW2
FastEthernet0/1 (100).
%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on FastEthernet0/2 (101), with SW2
FastEthernet0/1 (100).
%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on FastEthernet0/2 (101), with SW2
FastEthernet0/1 (100).
%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on FastEthernet0/2 (101), with SW2
FastEthernet0/1 (100).
%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on FastEthernet0/2 (101), with SW2
FastEthernet0/1 (100).

User Access Verification
Password:

SW1#show vlan brief
```

VLAN Name	Status	Ports
1 default	active	Fa0/3, Fa0/4, Fa0/5, Fa0/6 Fa0/7, Fa0/8, Fa0/9, Fa0/10 Fa0/11, Fa0/12, Fa0/13, Fa0/14 Fa0/15, Fa0/16, Fa0/17, Fa0/18 Fa0/19, Fa0/20, Fa0/21, Fa0/22 Fa0/23, Fa0/24, Gig0/1, Gig0/2
100 ADMINISTRACION	active	Fa0/1
101 SEGURIDAD	active	Fa0/2
1002 fddi-default	active	
1003 token-ring-default	active	
1004 fddinet-default	active	
1005 trnet-default	active	

```
SW1>
```

Copy Paste

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