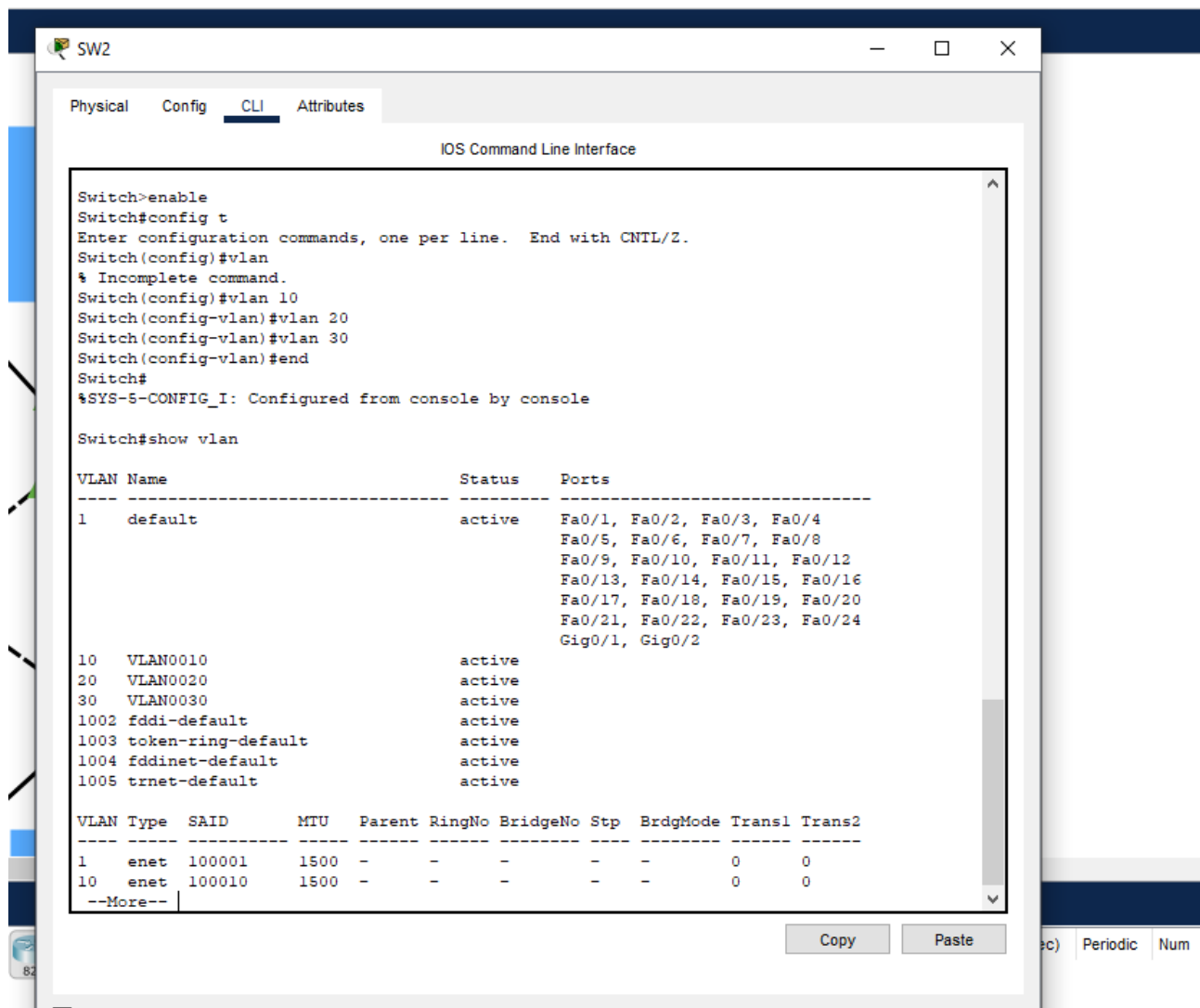


# Proyecto 2 - Red con VLANs

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1-ASIR

Paso 1: Crear las vlan en todos los sw.



Vlan 10 para la IP 192.168.10.10

Vlan 20 para la IP 192.168.20.0

Vlan 30 para la IP 192.168.30.0

El mismo proceso para todos los SW.

Paso 2: Se le asignan a los puertos las Vlan.

The screenshot shows a network switch configuration window titled "SW1". The window has tabs for "Physical", "Config", "CLI", and "Attributes". The "CLI" tab is active, displaying the "IOS Command Line Interface".

The CLI shows the following configuration:

```
10 VLAN0010 active
20 VLAN0020 active
30 VLAN0030 active
1002 fddi-default active
1003 token-ring-default active
1004 fddinet-default active
1005 trnet-default active
```

Below the configuration, there is a table showing VLAN details:

VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	Trans1	Trans2
1	enet	100001	1500	-	-	-	-	-	0	0
10	enet	100010	1500	-	-	-	-	-	0	0
20	enet	100020	1500	-	-	-	-	-	0	0

The CLI also shows the following configuration commands:

```
Switch#config t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface f0/3
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#exit
Switch(config)#interface f0/4
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#exit
Switch(config)#interface f0/5
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 30
Switch(config-if)#
% Invalid input detected at '^' marker.
Switch(config-if)#switchport access vlan 30
Switch(config-if)#
```

At the bottom of the window, there are "Copy" and "Paste" buttons, and a "Top" button.

The screenshot shows a network configuration window titled "SW1" with tabs for "Physical", "Config", "CLI", and "Attributes". The "CLI" tab is active, displaying the "IOS Command Line Interface". The terminal output shows the following commands and results:

```
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 30
^
% Invalid input detected at '^' marker.

Switch(config-if)#switchport access vlan 30
Switch(config-if)#exit
Switch(config)#do write
Building configuration...
[OK]
Switch(config)#
Switch(config)#show vlan brief

% Invalid input detected at '^' marker.

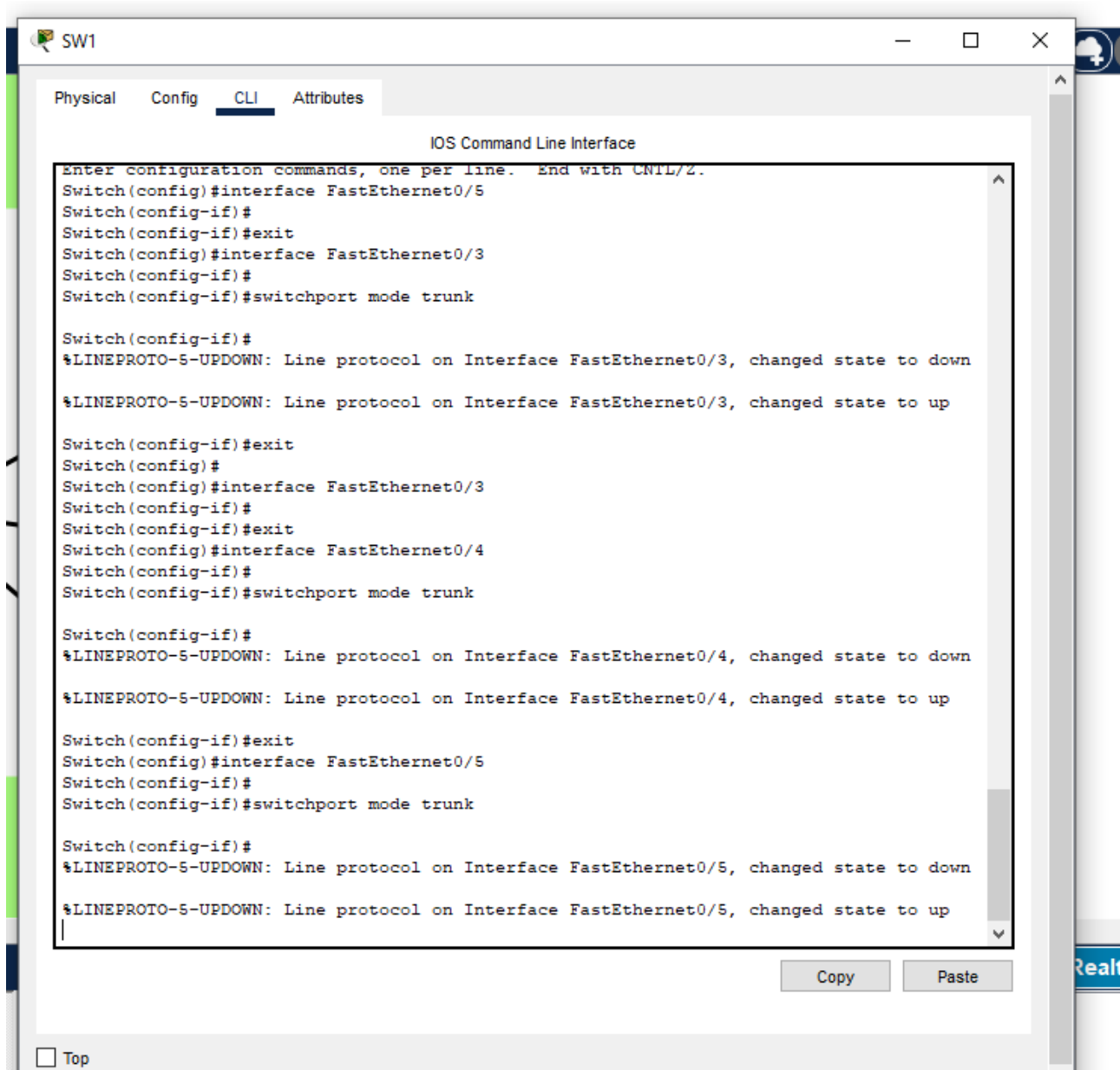
Switch(config)#exit
Switch#
%SYS-5-CONFIG_I: Configured from console by console

Switch#show vlan brief
```

VLAN	Name	Status	Ports
1	default	active	Fa0/1, Fa0/2, 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
10	VLAN0010	active	Fa0/3
20	VLAN0020	active	Fa0/4
30	VLAN0030	active	Fa0/5
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

At the bottom of the window, there are "Copy" and "Paste" buttons. The window also has standard OS window controls (minimize, maximize, close) in the top right corner.

Paso 3: Configurar los enlaces troncales.



Lo mismo con los otros.

## IOS Command Line Interface

```
Switch(config-if)#exit
Switch(config)#interface FastEthernet0/5
Switch(config-if)#
Switch(config-if)#switchport mode trunk

Switch(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/5, changed state to down

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

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

Switch#show int trunk
Port      Mode      Encapsulation  Status      Native vlan
Fa0/3     on        802.1q         trunking    1
Fa0/4     on        802.1q         trunking    1
Fa0/5     on        802.1q         trunking    1

Port      Vlans allowed on trunk
Fa0/3     1-1005
Fa0/4     1-1005
Fa0/5     1-1005

Port      Vlans allowed and active in management domain
Fa0/3     1,10,20,30
Fa0/4     1,10,20,30
Fa0/5     1,10,20,30

Port      Vlans in spanning tree forwarding state and not pruned
Fa0/3     1,10,20,30
Fa0/4     1,10,20,30
Fa0/5     1,10,20,30

Switch#
```

Copy

Paste

Paso 4: Revisar ping de rojo a rojo por ejemplo.

