

ACT. 1.4 REALIZA LA SIGUIENTE PRÁCTICA EN PACKET TRACERT CONFIGURACION DE VLANS

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Topología

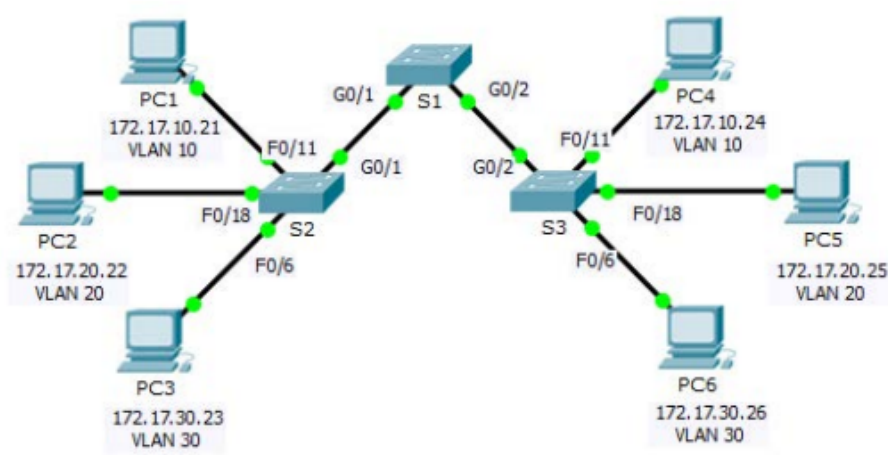
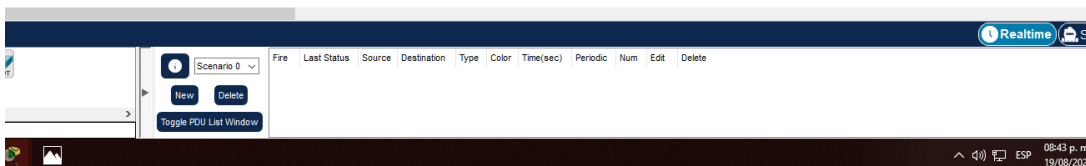
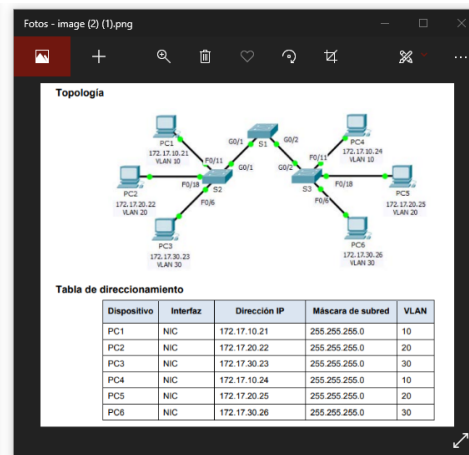
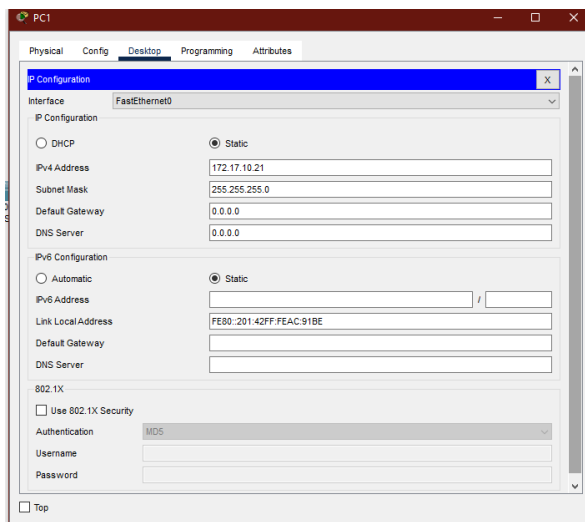
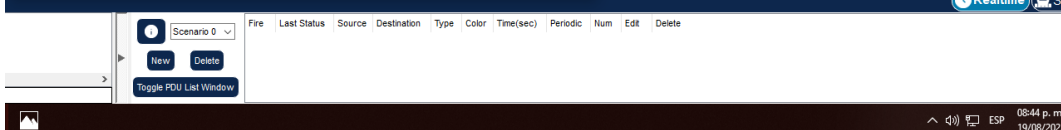
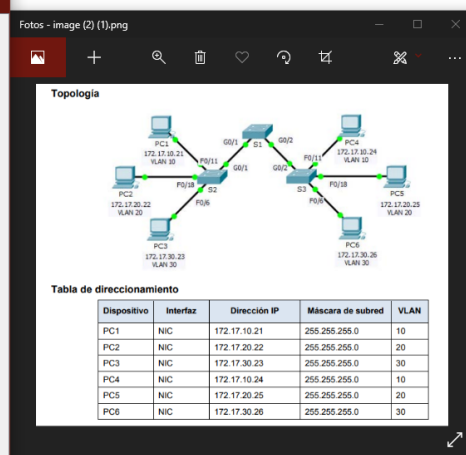
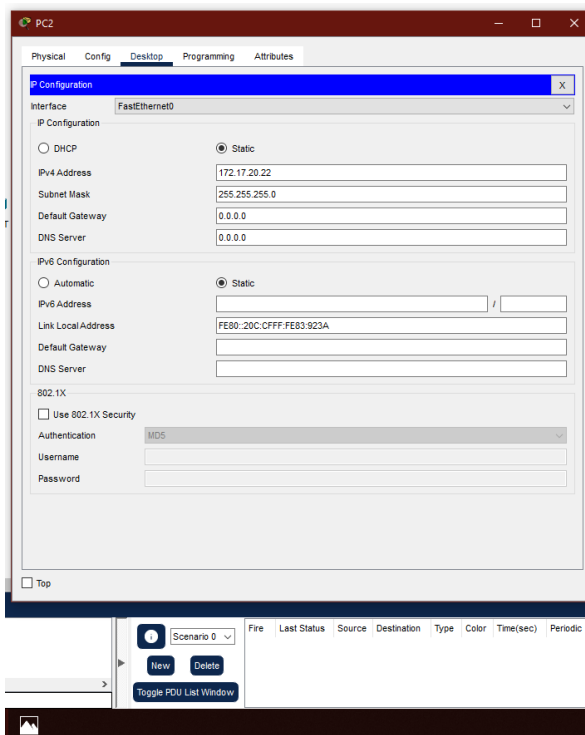


Tabla de direccionamiento

Dispositivo	Interfaz	Dirección IP	Máscara de subred	VLAN
PC1	NIC	172.17.10.21	255.255.255.0	10
PC2	NIC	172.17.20.22	255.255.255.0	20
PC3	NIC	172.17.30.23	255.255.255.0	30
PC4	NIC	172.17.10.24	255.255.255.0	10
PC5	NIC	172.17.20.25	255.255.255.0	20
PC6	NIC	172.17.30.26	255.255.255.0	30



Asignación de ip y mascara de subred a la PC1



Asignación de ip y mascara de subred a la PC2

PC3

Physical Config Desktop Programming Attributes

IP Configuration

InterfaceFastEthernet0

IP Configuration

DHCP

Static

IPv4 Address172.17.30.23

Subnet Mask255.255.255.0

Default Gateway0.0.0.0

DNS Server0.0.0.0

IPv6 Configuration

Automatic

Static

IPv6 Address

Link Local AddressFE80::202:4AFF:FEBA:B601

Default Gateway

DNS Server

802.1X

Use 802.1X Security

AuthenticationMD5

Username

Password

Top

Fotos - image (2) (1).png

Topología

Tabla de direccionamiento

Dispositivo	Interfaz	Dirección IP	Máscara de subred	VLAN
PC1	NIC	172.17.10.21	255.255.255.0	10
PC2	NIC	172.17.20.22	255.255.255.0	20
PC3	NIC	172.17.30.23	255.255.255.0	30
PC4	NIC	172.17.10.24	255.255.255.0	10
PC5	NIC	172.17.20.25	255.255.255.0	20
PC6	NIC	172.17.30.26	255.255.255.0	30

Realtime Simulation

Scenario 0NewDeleteToggle PDU List Window

FireLast StatusSourceDestinationTypeColorTime(sec)PeriodicNumEditDelete

08:45 p.m. 19/08/2023

Asignación de ip y mascara de subred a la PC3

PC4

Physical Config Desktop Programming Attributes

IP Configuration

InterfaceFastEthernet0

IP Configuration

DHCP

Static

IPv4 Address172.17.10.24

Subnet Mask255.255.255.0

Default Gateway0.0.0.0

DNS Server0.0.0.0

IPv6 Configuration

Automatic

Static

IPv6 Address

Link Local AddressFE80::2E0:B0FF:FE29:D213

Default Gateway

DNS Server

802.1X

Use 802.1X Security

AuthenticationMD5

Username

Password

Top

Fotos - image (2) (1).png

Topología

Tabla de direccionamiento

Dispositivo	Interfaz	Dirección IP	Máscara de subred	VLAN
PC1	NIC	172.17.10.21	255.255.255.0	10
PC2	NIC	172.17.20.22	255.255.255.0	20
PC3	NIC	172.17.30.23	255.255.255.0	30
PC4	NIC	172.17.10.24	255.255.255.0	10
PC5	NIC	172.17.20.25	255.255.255.0	20
PC6	NIC	172.17.30.26	255.255.255.0	30

Realtime Simulation

Scenario 0NewDeleteToggle PDU List Window

FireLast StatusSourceDestinationTypeColorTime(sec)PeriodicNumEditDelete

08:45 p.m. 19/08/2023

Asignación de ip y mascara de subred a la PC4

PC5

Physical Config Desktop Programming Attributes

IP Configuration

InterfaceFastEthernet0

IP Configuration

DHCP

Static

IPv4 Address172.17.20.25

Subnet Mask255.255.255.0

Default Gateway0.0.0.0

DNS Server0.0.0.0

IPv6 Configuration

Automatic

Static

IPv6 Address

Link Local AddressFE80::2D0:D3FF:FE3C:AC83

Default Gateway

DNS Server

802.1X

Use 802.1X Security

AuthenticationMDS

Username

Password

Top

Fotos - image (2) (1).png

Topología

Tabla de direccionamiento

Dispositivo	Interfaz	Dirección IP	Máscara de subred	VLAN
PC1	NIC	172.17.10.21	255.255.255.0	10
PC2	NIC	172.17.20.22	255.255.255.0	20
PC3	NIC	172.17.30.23	255.255.255.0	30
PC4	NIC	172.17.10.24	255.255.255.0	10
PC5	NIC	172.17.20.25	255.255.255.0	20
PC6	NIC	172.17.30.26	255.255.255.0	30

RealtimeSimulation

Scenario 0

NewDelete

Toggle PDU List Window

FireLast StatusSourceDestinationTypeColorTime(sec)PeriodicNumEditDelete

08:46 p. m.19/08/2023

Asignación de ip y mascara de subred a la PC5

PC6

Physical Config Desktop Programming Attributes

IP Configuration

InterfaceFastEthernet0

IP Configuration

DHCP

Static

IPv4 Address172.17.30.26

Subnet Mask255.255.255.0

Default Gateway0.0.0.0

DNS Server0.0.0.0

IPv6 Configuration

Automatic

Static

IPv6 Address

Link Local AddressFE80::290:21FF:FE7C:15E9

Default Gateway

DNS Server

802.1X

Use 802.1X Security

AuthenticationMDS

Username

Password

Top

Fotos - image (2) (1).png

Topología

Tabla de direccionamiento

Dispositivo	Interfaz	Dirección IP	Máscara de subred	VLAN
PC1	NIC	172.17.10.21	255.255.255.0	10
PC2	NIC	172.17.20.22	255.255.255.0	20
PC3	NIC	172.17.30.23	255.255.255.0	30
PC4	NIC	172.17.10.24	255.255.255.0	10
PC5	NIC	172.17.20.25	255.255.255.0	20
PC6	NIC	172.17.30.26	255.255.255.0	30

RealtimeSimulation

Scenario 0

NewDelete

Toggle PDU List Window

FireLast StatusSourceDestinationTypeColorTime(sec)PeriodicNumEditDelete

08:46 p. m.19/08/2023

Asignación de ip y mascara de subred a la PC6

```
Switch>ena
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname S1
S1(config)#vlan 10
S1(config-vlan)#name vlan10
S1(config-vlan)#exit
S1(config)#vlan 20
S1(config-vlan)#name vlan20
S1(config-vlan)#exit
S1(config)#vlan 30
S1(config-vlan)#name vlan30
S1(config-vlan)#exit
S1(config)#exit
S1#
%SYS-5-CONFIG_I: Configured from console by console

S1#copy running-configuration startup-configuration
^
% Invalid input detected at '^' marker.

S1#copy running-configurationup-configuration^Z
S1#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
S1#
S1#
```

Configuración del Switch 1

```
* 1 26 WS-C2960-24TT-L 15.0(2)SE4 C2960-LANBASEK9-M

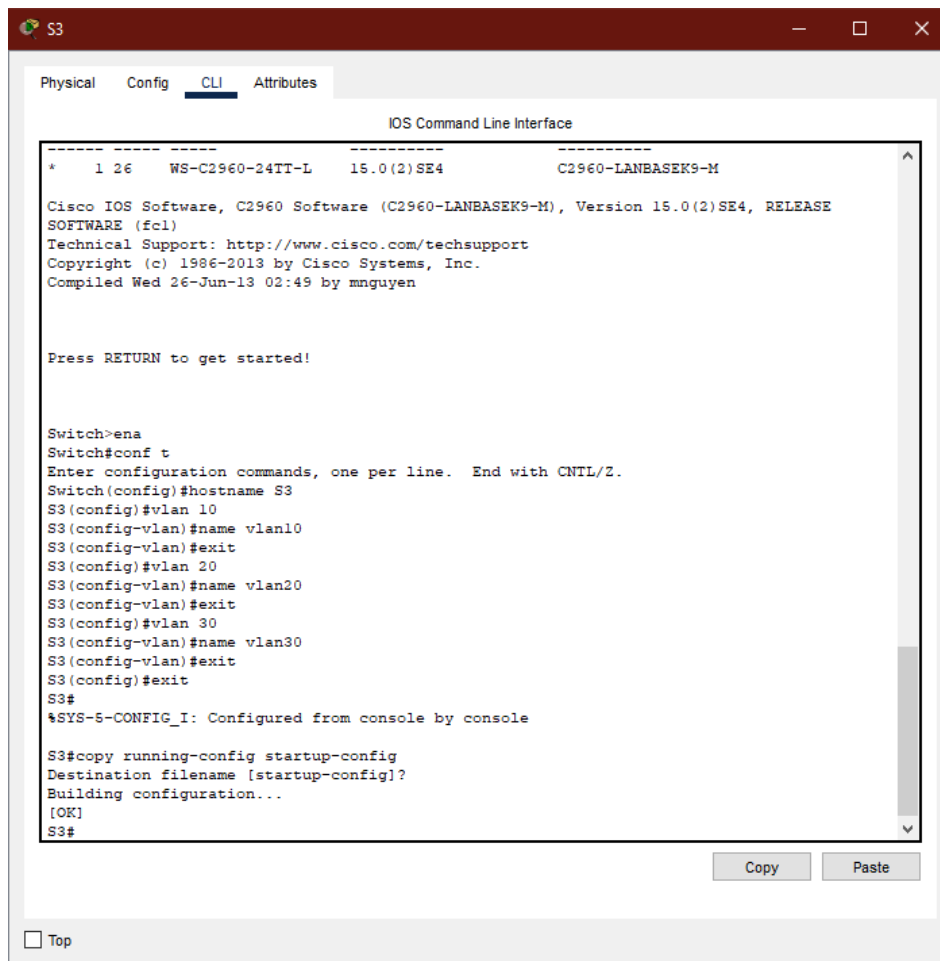
Cisco IOS Software, C2960 Software (C2960-LANBASEK9-M), Version 15.0(2)SE4, RELEASE
SOFTWARE (fcl)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2013 by Cisco Systems, Inc.
Compiled Wed 26-Jun-13 02:49 by mnguyen

Press RETURN to get started!

Switch>ena
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname S2
S2(config)#vlan 10
S2(config-vlan)#name vlan10
S2(config-vlan)#exit
S2(config)#vlan 20
S2(config-vlan)#name vlan20
S2(config-vlan)#exit
S2(config)#vlan 30
S2(config-vlan)#name vlan30
S2(config-vlan)#exit
S2(config)#exit
S2#
%SYS-5-CONFIG_I: Configured from console by console

S2#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
S2#
S2#
```

Configuración del Switch 2



S3

Physical Config CLI Attributes

IOS Command Line Interface

```
* 1 26 WS-C2960-24TT-L 15.0(2)SE4 C2960-LANBASEK9-M

Cisco IOS Software, C2960 Software (C2960-LANBASEK9-M), Version 15.0(2)SE4, RELEASE
SOFTWARE (fcl)
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!

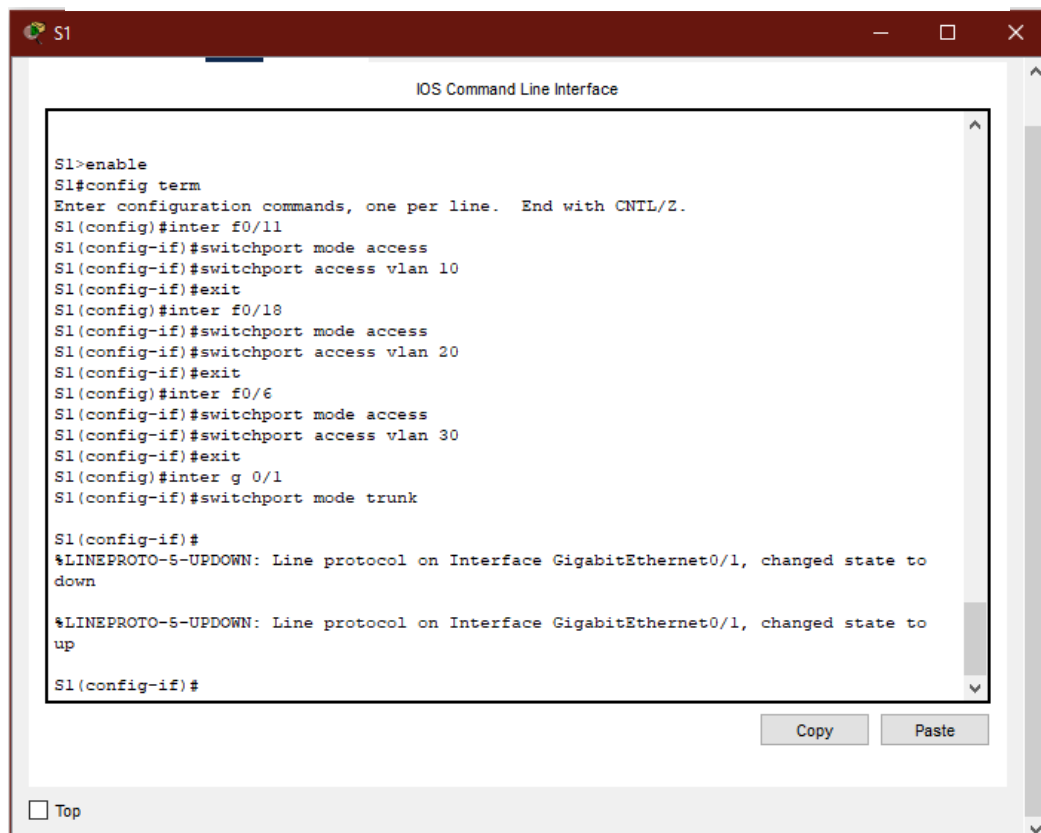
Switch>ena
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname S3
S3(config)#vlan 10
S3(config-vlan)#name vlan10
S3(config-vlan)#exit
S3(config)#vlan 20
S3(config-vlan)#name vlan20
S3(config-vlan)#exit
S3(config)#vlan 30
S3(config-vlan)#name vlan30
S3(config-vlan)#exit
S3(config)#exit
S3#
%SYS-5-CONFIG_I: Configured from console by console

S3#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
S3#
```

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☐ Top

Configuración del Switch 3



S1

IOS Command Line Interface

```
S1>enable
S1#config term
Enter configuration commands, one per line. End with CNTL/Z.
S1(config)#inter f0/11
S1(config-if)#switchport mode access
S1(config-if)#switchport access vlan 10
S1(config-if)#exit
S1(config)#inter f0/18
S1(config-if)#switchport mode access
S1(config-if)#switchport access vlan 20
S1(config-if)#exit
S1(config)#inter f0/6
S1(config-if)#switchport mode access
S1(config-if)#switchport access vlan 30
S1(config-if)#exit
S1(config)#inter g 0/1
S1(config-if)#switchport mode trunk

S1(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to
down

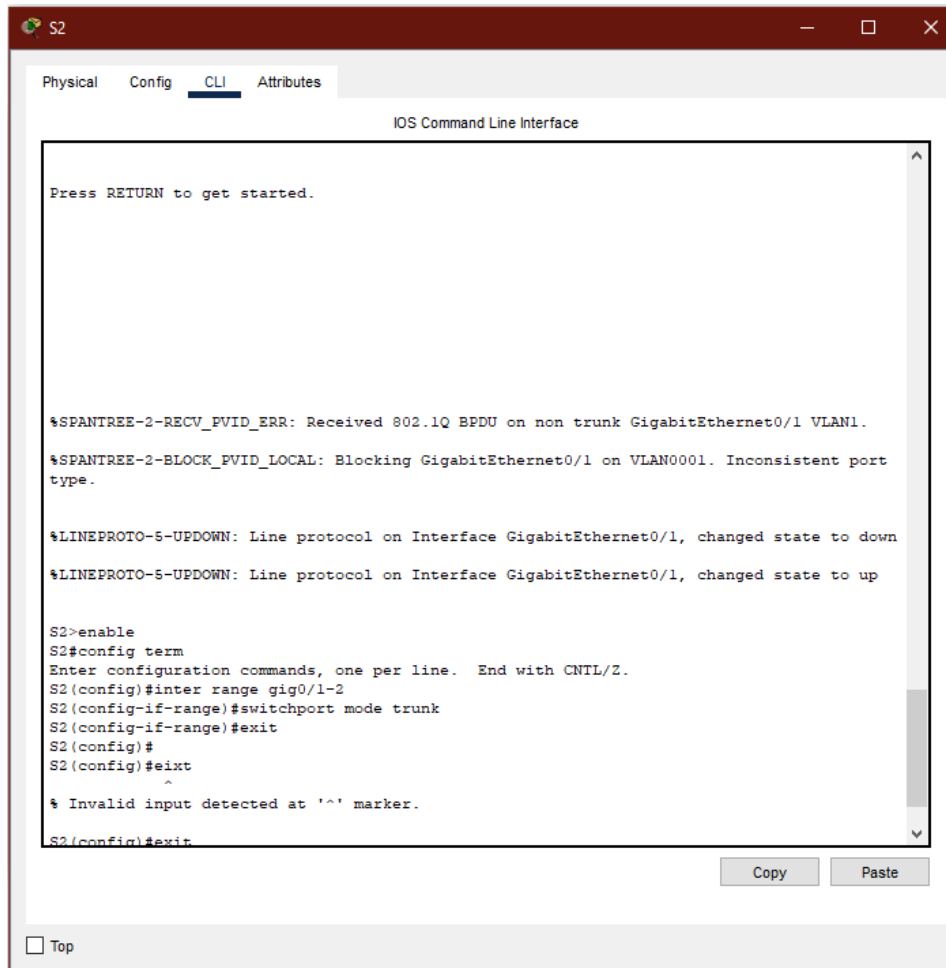
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to
up

S1(config-if)#
```

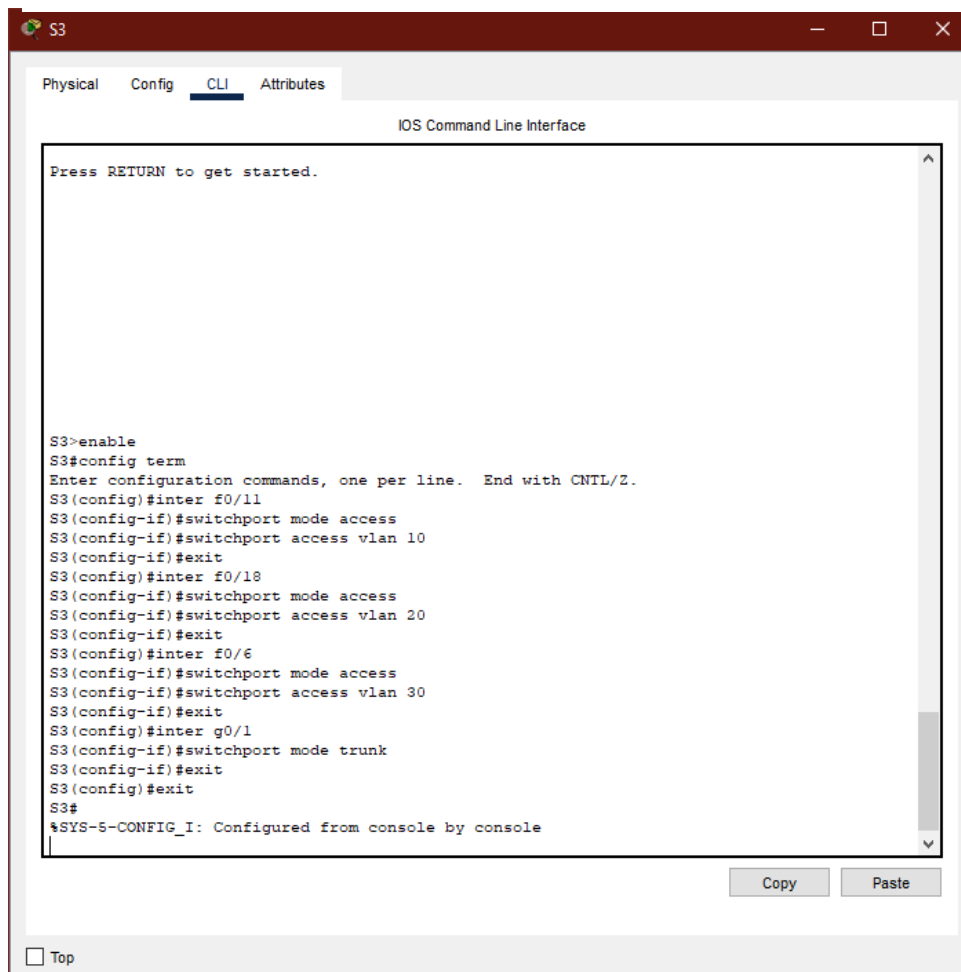
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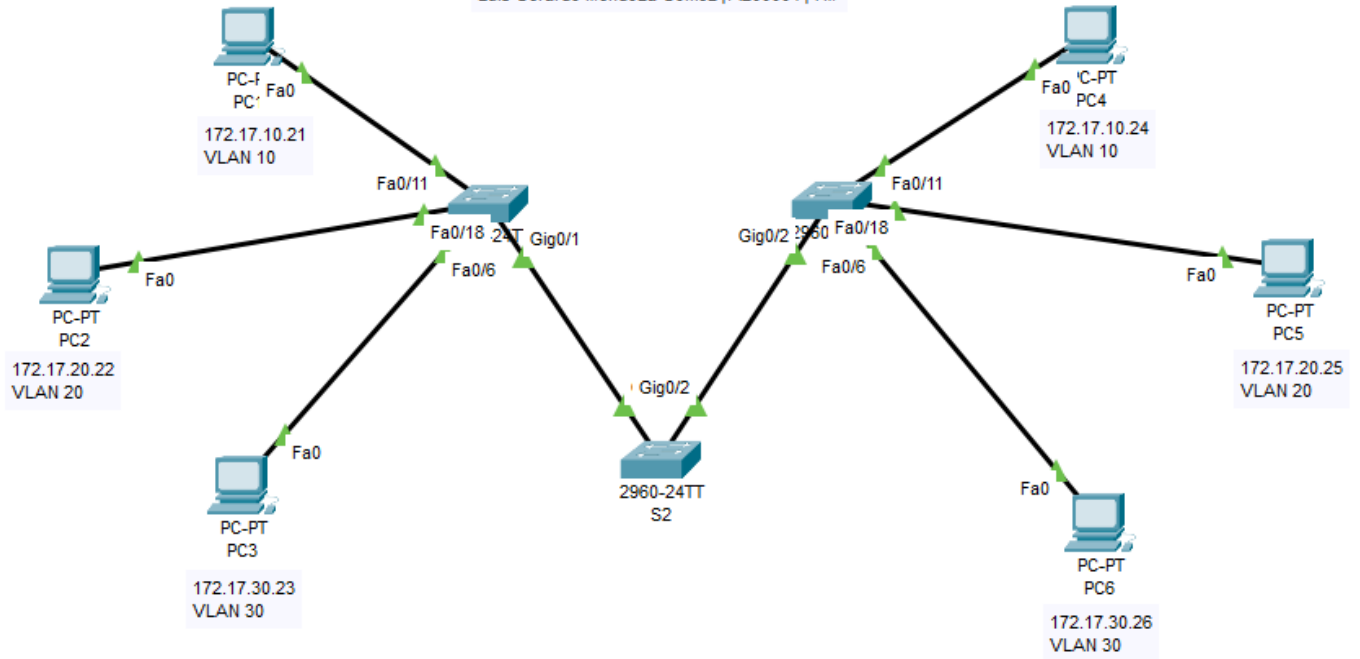
Asignación de puertos y modo troncal



Asignación de puertos y modo troncal



Asignación de puertos y modo troncal



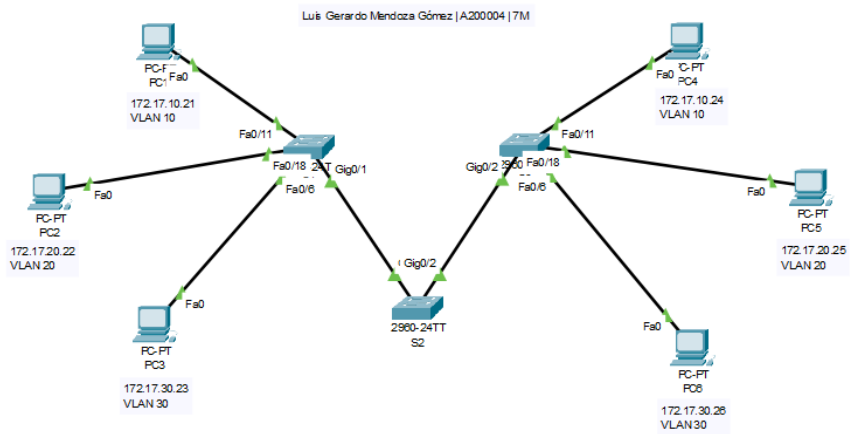
Scenario 0

New Delete

Toggle PDU List Window

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC1	PC4	ICMP		0.000	N	0	(edit)	(delete)
	Successful	PC2	PC5	ICMP		0.000	N	1	(edit)	(delete)
	Successful	PC3	PC6	ICMP		0.000	N	2	(edit)	(delete)

Comprobación: Misma VLAN



PDU List Window										
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Failed	PC1	PC5	ICMP		0.000	N	0	(edit)	(delete)
	Failed	PC1	PC6	ICMP		0.000	N	1	(edit)	(delete)
	Failed	PC2	PC4	ICMP		0.000	N	2	(edit)	(delete)
	Failed	PC2	PC6	ICMP		0.000	N	3	(edit)	(delete)
	Failed	PC3	PC4	ICMP		0.000	N	4	(edit)	(delete)
	Failed	PC3	PC5	ICMP		0.000	N	5	(edit)	(delete)

Comprobación: Diferente VLAN