



UNIVERSIDAD AUTÓNOMA DE CHIAPAS

**LICENCIATURA EN INGENIERIA EN DESARROLLO
Y TECNOLOGIAS DE SOFTWARE**



CONMUTADORES Y REDES INALAMBRICAS

Examen Ordinario Conmutadores y Redes Inalámbricas

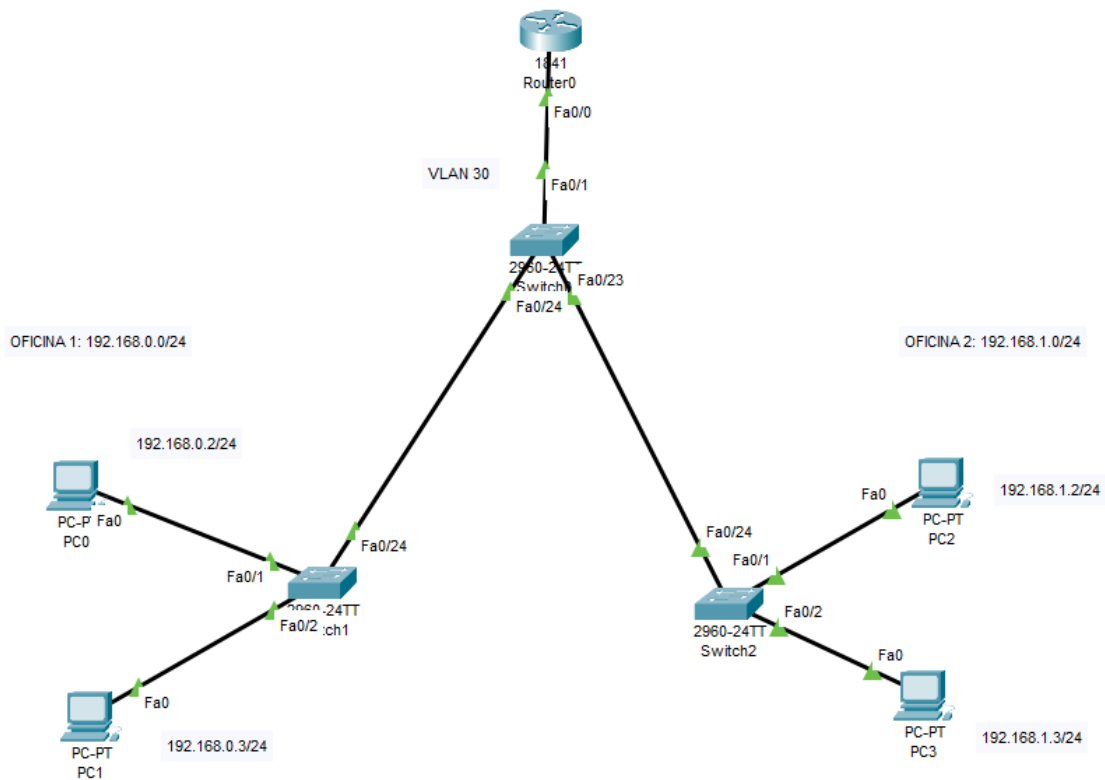
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Semestre: 7

Grupo: M

Fecha de entrega: 20/11/23



Topologia

```
Switch1
Physical Config CLI Attributes
IOS Command Line Interface

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/24, 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
%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up

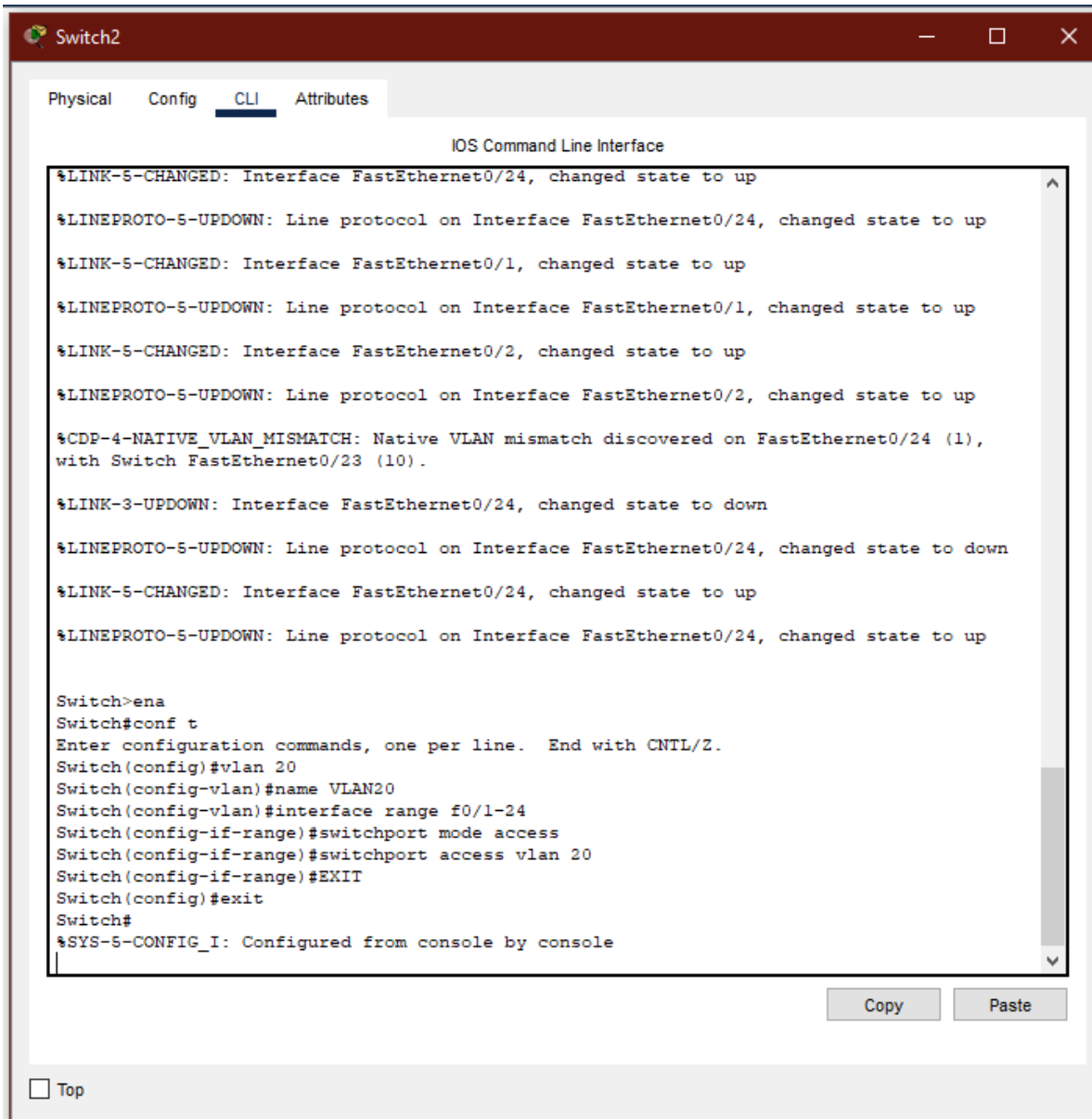
Switch>
%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on FastEthernet0/24 (1),
with Switch FastEthernet0/24 (10).

%LINK-3-UPDOWN: Interface FastEthernet0/24, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/24, changed state to down
%LINK-5-CHANGED: Interface FastEthernet0/24, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/24, changed state to up

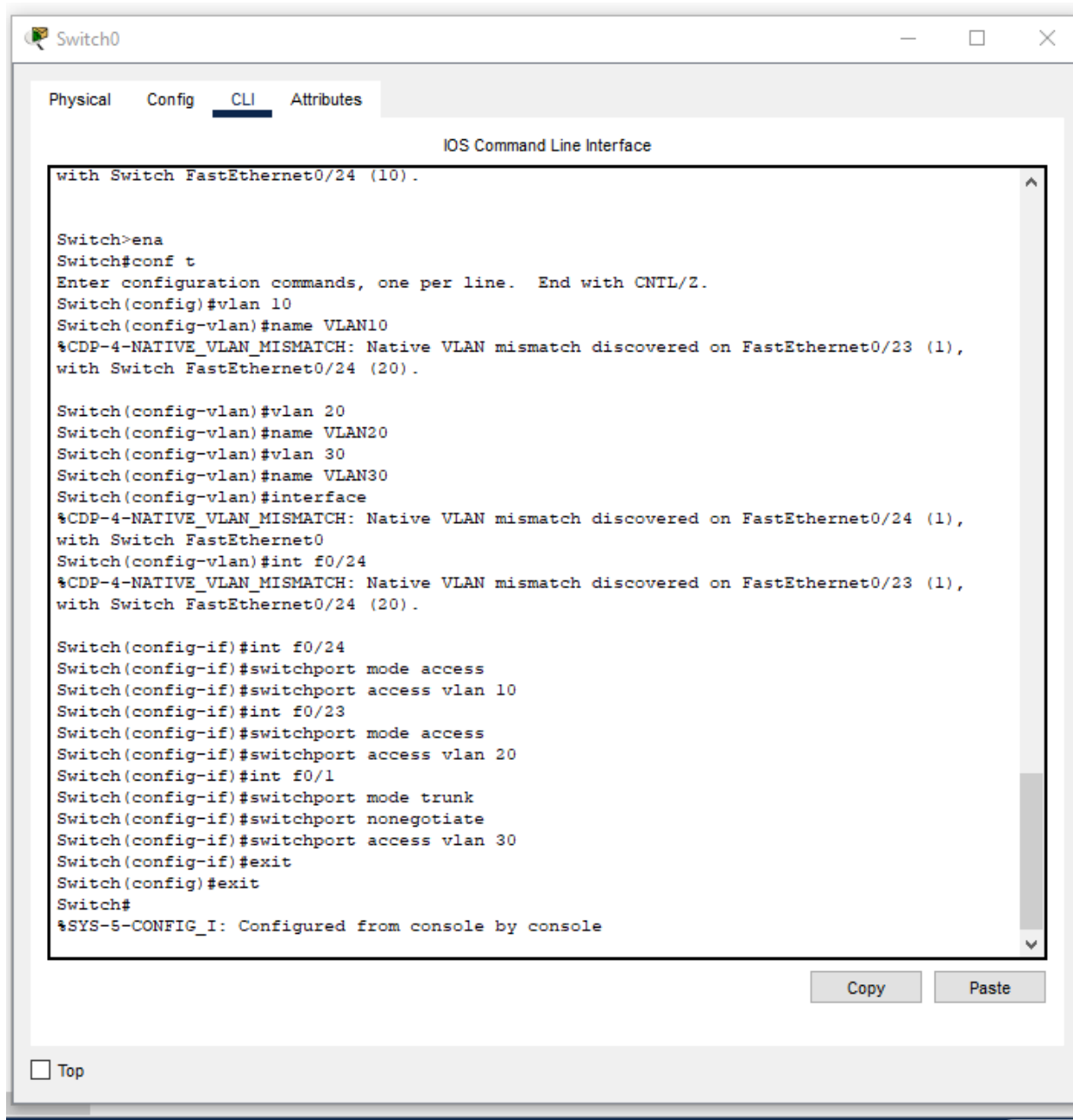
Switch>ena
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#vlan 10
Switch(config-vlan)#name VLAN10
Switch(config-vlan)#interface range f0/1-24
Switch(config-if-range)#switchport mode access
Switch(config-if-range)#switchport access vlan 10
Switch(config-if-range)#exit
Switch(config)#exit
Switch#
%SYS-5-CONFIG_I: Configured from console by console

Copy Paste
```

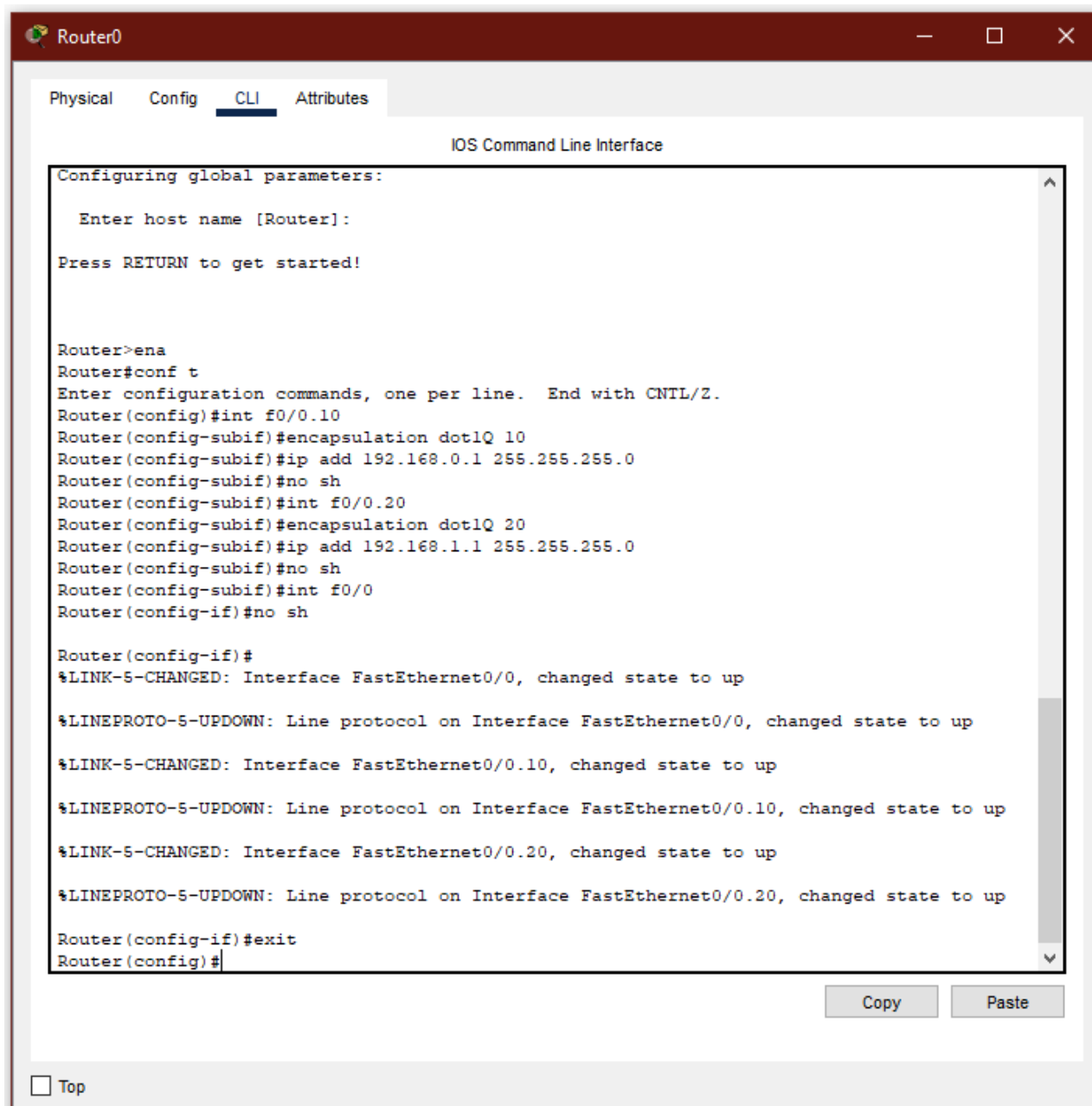
Configuración del Switch 1 que se encuentra en Oficina 1



Configuración del Switch 2 que se encuentra en oficina 2



Configuración del switch principal (Central)



Configuración del Router

Comprobaciones:

```
Packet Tracer PC Command Line 1.0
PC>ping 192.168.1.3 -n 15

Pinging 192.168.1.3 with 32 bytes of data:

Request timed out.
Reply from 192.168.1.3: bytes=32 time=10ms TTL=127
Reply from 192.168.1.3: bytes=32 time=0ms TTL=127
Reply from 192.168.1.3: bytes=32 time=0ms TTL=127
Reply from 192.168.1.3: bytes=32 time=1ms TTL=127
Reply from 192.168.1.3: bytes=32 time=1ms TTL=127
Reply from 192.168.1.3: bytes=32 time=1ms TTL=127
Reply from 192.168.1.3: bytes=32 time=10ms TTL=127
Reply from 192.168.1.3: bytes=32 time=0ms TTL=127
Reply from 192.168.1.3: bytes=32 time=10ms TTL=127
Reply from 192.168.1.3: bytes=32 time=0ms TTL=127
Reply from 192.168.1.3: bytes=32 time=1ms TTL=127
Reply from 192.168.1.3: bytes=32 time=0ms TTL=127
Reply from 192.168.1.3: bytes=32 time=0ms TTL=127
Reply from 192.168.1.3: bytes=32 time=0ms TTL=127

Ping statistics for 192.168.1.3:
    Packets: Sent = 15, Received = 14, Lost = 1 (7% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 10ms, Average = 2ms
```

Ping de la PC0 a la PC3

```
Packet Tracer PC Command Line 1.0
PC>ping 192.168.0.3 -n 15

Pinging 192.168.0.3 with 32 bytes of data:

Request timed out.
Reply from 192.168.0.3: bytes=32 time=0ms TTL=127
Reply from 192.168.0.3: bytes=32 time=10ms TTL=127
Reply from 192.168.0.3: bytes=32 time=2ms TTL=127
Reply from 192.168.0.3: bytes=32 time=0ms TTL=127
Reply from 192.168.0.3: bytes=32 time=11ms TTL=127
Reply from 192.168.0.3: bytes=32 time=10ms TTL=127
Reply from 192.168.0.3: bytes=32 time=11ms TTL=127
Reply from 192.168.0.3: bytes=32 time=1ms TTL=127
Reply from 192.168.0.3: bytes=32 time=10ms TTL=127
Reply from 192.168.0.3: bytes=32 time=0ms TTL=127
Reply from 192.168.0.3: bytes=32 time=12ms TTL=127
Reply from 192.168.0.3: bytes=32 time=10ms TTL=127
Reply from 192.168.0.3: bytes=32 time=10ms TTL=127
Reply from 192.168.0.3: bytes=32 time=0ms TTL=127

Ping statistics for 192.168.0.3:
    Packets: Sent = 15, Received = 14, Lost = 1 (7% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 12ms, Average = 6ms
```

Ping de la PC2 a la PC1

<div> <div>i</div> <div>Scenario 0 ▾</div> </div> <div> <div>New</div> <div>Delete</div> </div> <div>Toggle PDU List Window</div>		Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
			Successful	PC0	PC2	ICMP		0.000	N	2	(edit)	
			Successful	PC1	PC0	ICMP		0.000	N	3	(edit)	
			Successful	PC0	PC3	ICMP		0.000	N	4	(edit)	
			Successful	PC2	PC1	ICMP		0.000	N	5	(edit)	