Configuración de VTP en Cisco Packet Tracer

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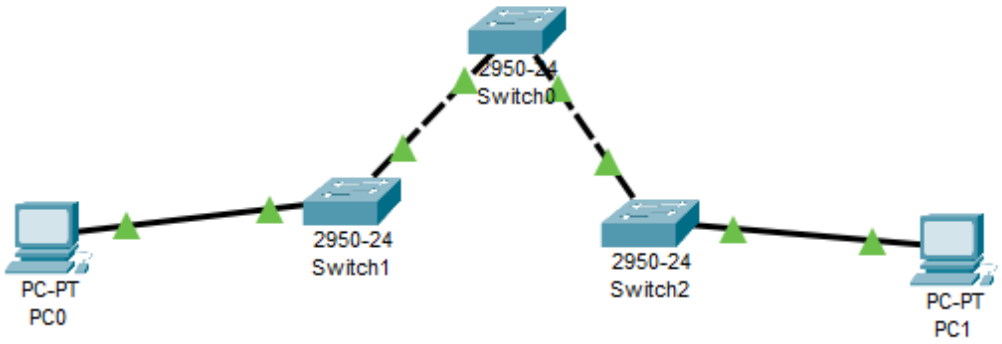
1-ASIR

Parte 1: Diseño de la Red



Parte 2: Configuración de VTP

Establecimiento del modo VTP y configuración:

```
Switch>enable
Switch#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#vtp mode client
Setting device to VTP CLIENT mode.
Switch(config)#vtp domain REDES
Domain name already set to REDES.
Switch(config)#vtp password CISCO
Setting device VLAN database password to CISCO
Switch(config)#do wr
Building configuration...
[OK]
Switch(config)#
```

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Creación de VLANs en el servidor VTP (Switch1):

```
Switch(config)#vlan 10
Switch(config-vlan)#name Administracion
Switch(config-vlan)#EXIT
Switch(config)#vlan 20
Switch(config-vlan)#name Ventas
Switch(config-vlan)#EXIT
Switch(config)#vlan 30
Switch(config-vlan)#name Soporte
Switch(config-vlan)#
```

Parte 3: Verificación y Pruebas

```
Switch>enable
Switch#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#show vtp status
                ^
% Invalid input detected at '^' marker.

Switch(config)#vtp mode server
Device mode already VTP SERVER.
Switch(config)#vtp domain REDES
Changing VTP domain name from NULL to REDES
Switch(config)#VTP password CISCO
Setting device VLAN database password to CISCO
Switch(config)#do wr
Building configuration...
[OK]
Switch(config)#vlan 10
Switch(config-vlan)#name Administracion
Switch(config-vlan)#EXIT
Switch(config)#vlan 20
Switch(config-vlan)#name Ventas
Switch(config-vlan)#EXIT
Switch(config)#vlan 30
Switch(config-vlan)#name Soporte
Switch(config-vlan)#EXIT
Switch(config)#int range fa 0/1-2
Switch(config-if-range)#switchport mode trunk
Switch(config-if-range)#
```

Switch1

Physical Config CLI Attributes

IOS Command Line Interface

```
Switch(config)#int range fa 0/2-1
Switch(config-if-range)#switchport mode trunk
Switch(config-if-range)#switchport mode access
Switch(config-if-range)#switchport access vlan 10
Switch(config-if-range)#end
Switch#
%SYS-5-CONFIG_I: Configured from console by console

Switch#show vlan

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
10   Administracion                    active    Fa0/2
20   Ventas                            active
30   Soporte                           active
1002 fddi-default                      active
1003 token-ring-default                active
1004 fddinet-default                   active
1005 trnet-default                     active

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
 --More--
%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up

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

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Switch2

Physical Config CLI Attributes

IOS Command Line Interface

```
Switch#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#int range fa 0/2-5
Switch(config-if-range)#switchport mode access
Switch(config-if-range)#switchport access vlan 10
Switch(config-if-range)#end
Switch#
%SYS-5-CONFIG_I: Configured from console by console

Switch#show vlan

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

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
30   enet  100030     1500  -      -      -        -    -        0      0
 --More--
%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up

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

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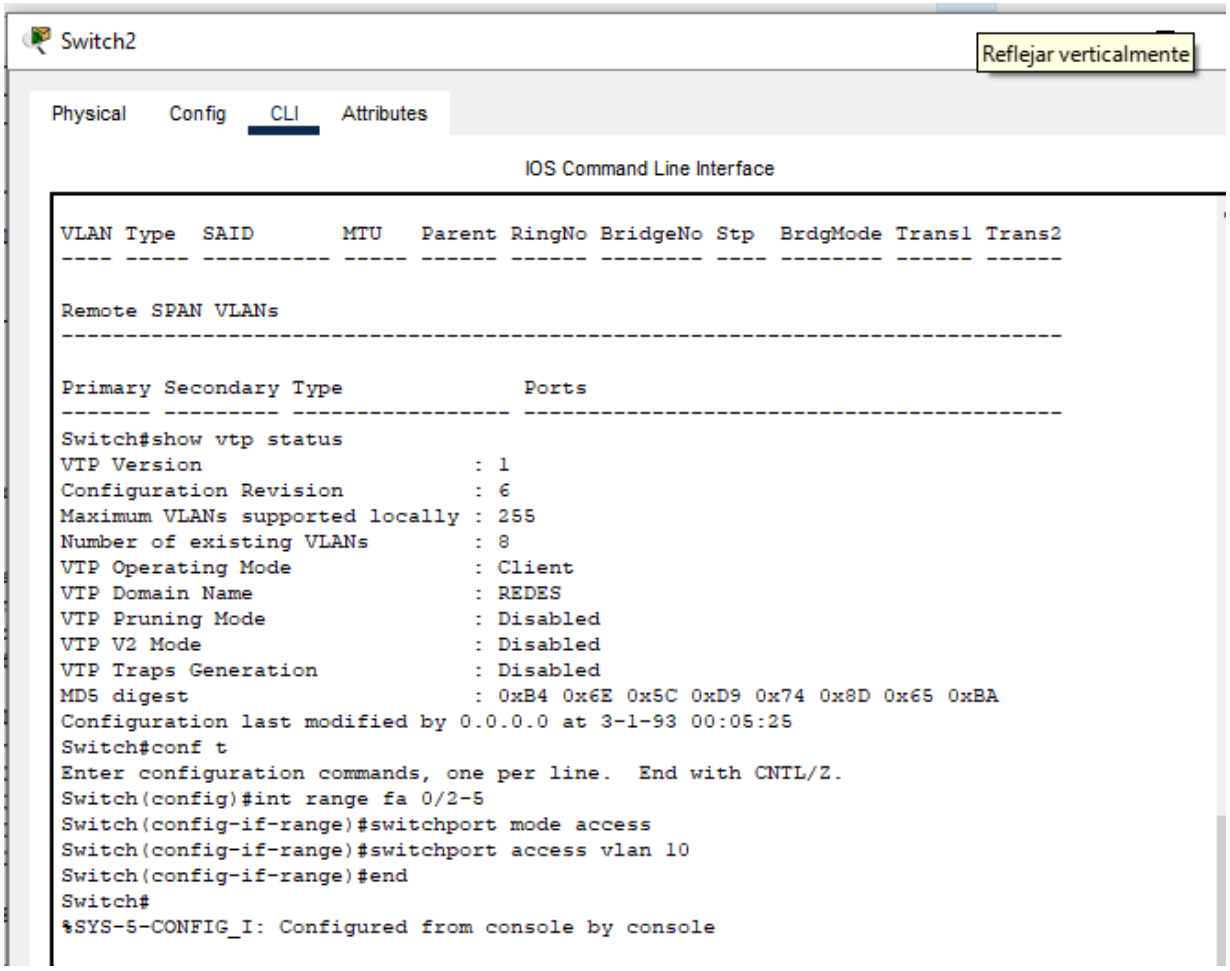
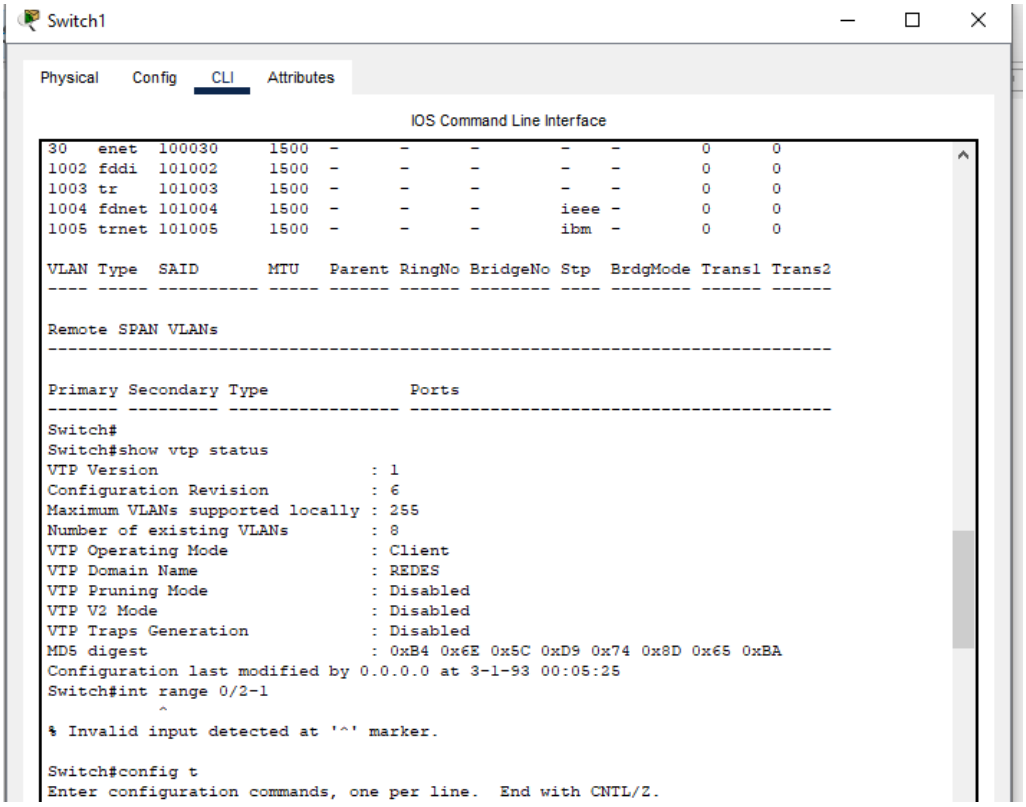
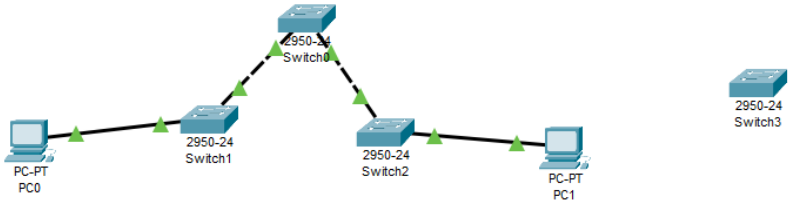
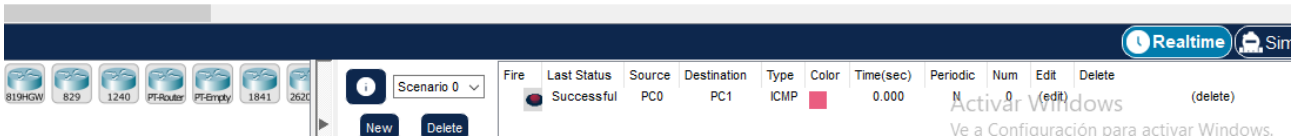
Top


Switch2
Reflejar verticalmente
Physical
Config
CLI
Attributes
IOS Command Line Interface
VLAN Type SAID MTU Parent RingNo BridgeNo Stp BrdgMode Trans1 Trans2
Remote SPAN VLANs
Primary Secondary Type Ports
Switch#show vtp status
VTP Version : 1
Configuration Revision : 6
Maximum VLANs supported locally : 255
Number of existing VLANs : 8
VTP Operating Mode : Client
VTP Domain Name : REDES
VTP Pruning Mode : Disabled
VTP V2 Mode : Disabled
VTP Traps Generation : Disabled
MD5 digest : 0xB4 0x6E 0x5C 0xD9 0x74 0x8D 0x65 0xBA
Configuration last modified by 0.0.0.0 at 3-1-93 00:05:25
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#int range fa 0/2-5
Switch(config-if-range)#switchport mode access
Switch(config-if-range)#switchport access vlan 10
Switch(config-if-range)#end
Switch#
%SYS-5-CONFIG_I: Configured from console by console


Switch1
Physical
Config
CLI
Attributes
IOS Command Line Interface
30 enet 100030 1500 - - - - - 0 0
1002 fddi 101002 1500 - - - - - 0 0
1003 tr 101003 1500 - - - - - 0 0
1004 fdnet 101004 1500 - - - ieee - 0 0
1005 trnet 101005 1500 - - - ibm - 0 0
VLAN Type SAID MTU Parent RingNo BridgeNo Stp BrdgMode Trans1 Trans2
Remote SPAN VLANs
Primary Secondary Type Ports
Switch#
Switch#show vtp status
VTP Version : 1
Configuration Revision : 6
Maximum VLANs supported locally : 255
Number of existing VLANs : 8
VTP Operating Mode : Client
VTP Domain Name : REDES
VTP Pruning Mode : Disabled
VTP V2 Mode : Disabled
VTP Traps Generation : Disabled
MD5 digest : 0xB4 0x6E 0x5C 0xD9 0x74 0x8D 0x65 0xBA
Configuration last modified by 0.0.0.0 at 3-1-93 00:05:25
Switch#int range 0/2-1
^
% Invalid input detected at '^' marker.
Switch#config t
Enter configuration commands, one per line. End with CNTL/Z.

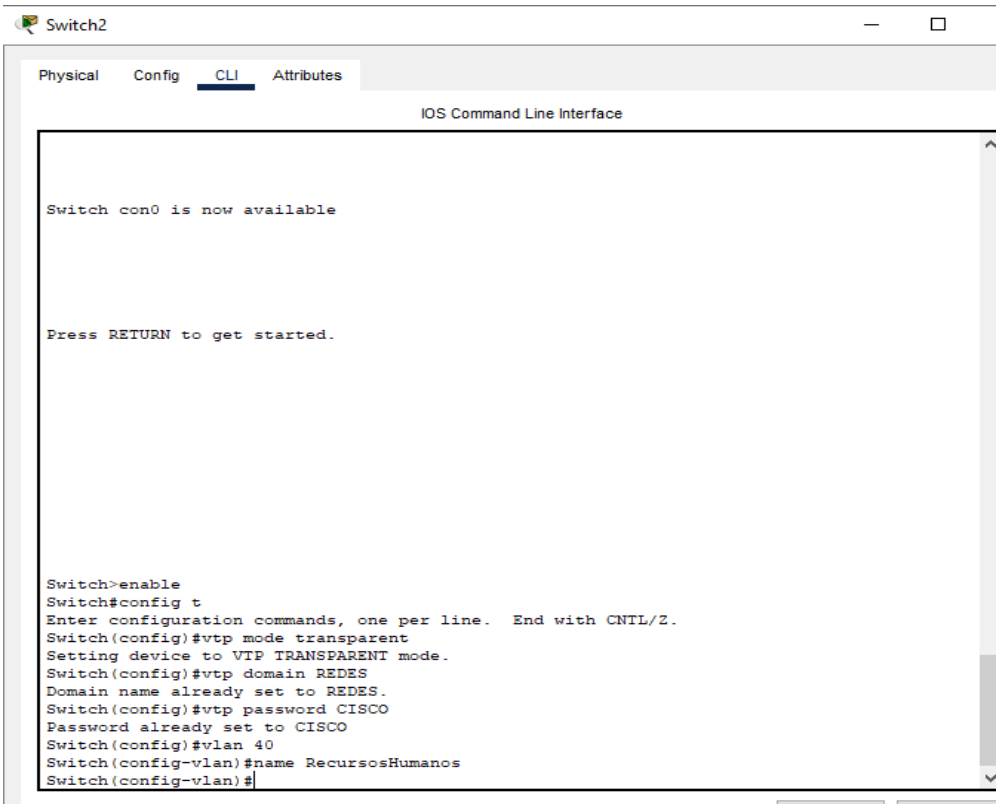
•Realiza pings entre PCs dentro de la misma VLAN para verificar la conectividad.

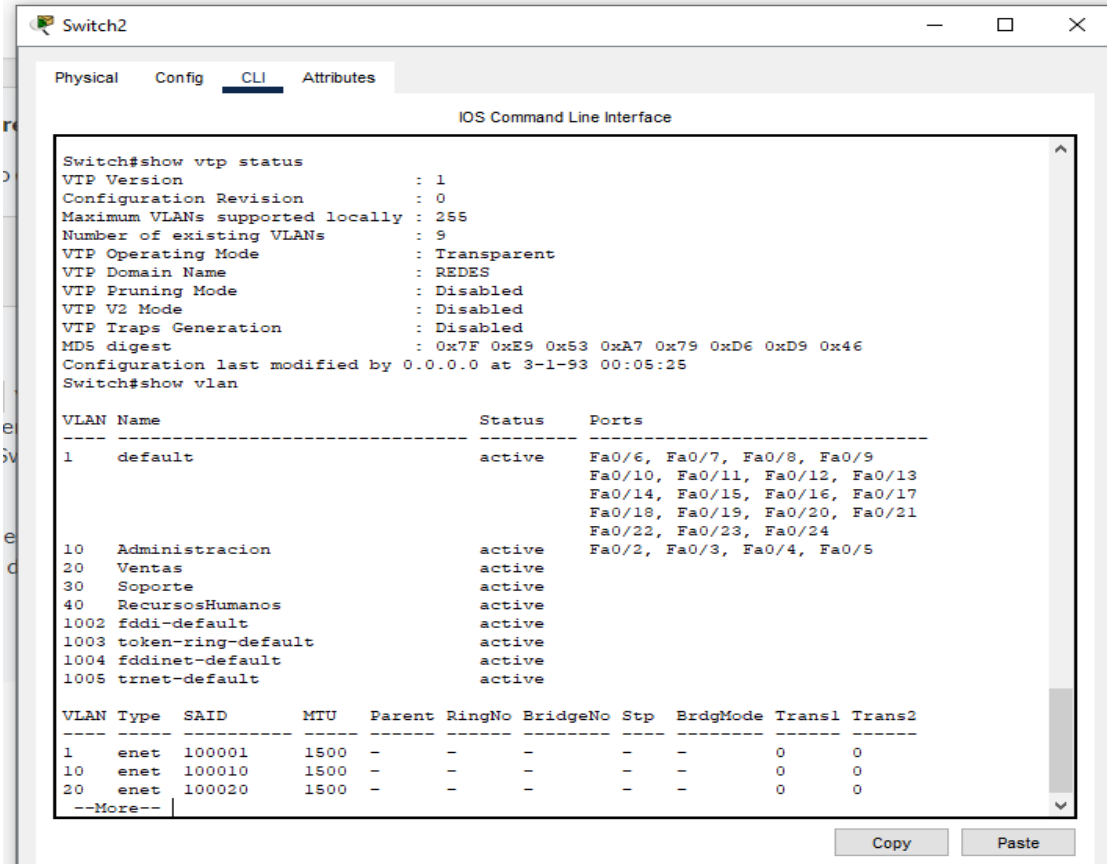




Parte Adicional: Configuración del Modo Transparente en VTP

Configuración del Modo Transparente:




Switch2
Physical
Config
CLI
Attributes
IOS Command Line Interface
Switch#show vtp status
VTP Version : 1
Configuration Revision : 0
Maximum VLANs supported locally : 255
Number of existing VLANs : 9
VTP Operating Mode : Transparent
VTP Domain Name : REDES
VTP Pruning Mode : Disabled
VTP V2 Mode : Disabled
VTP Traps Generation : Disabled
MD5 digest : 0x7F 0xE9 0x53 0xA7 0x79 0xD6 0xD9 0x46
Configuration last modified by 0.0.0.0 at 3-1-93 00:05:25
Switch#show vlan
VLAN Name Status Ports
1 default active 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
10 Administracion active Fa0/2, Fa0/3, Fa0/4, Fa0/5
20 Ventas active
30 Soporte active
40 RecursosHumanos active
1002 fddi-default active
1003 token-ring-default active
1004 fddinet-default active
1005 trnet-default active
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
--More--
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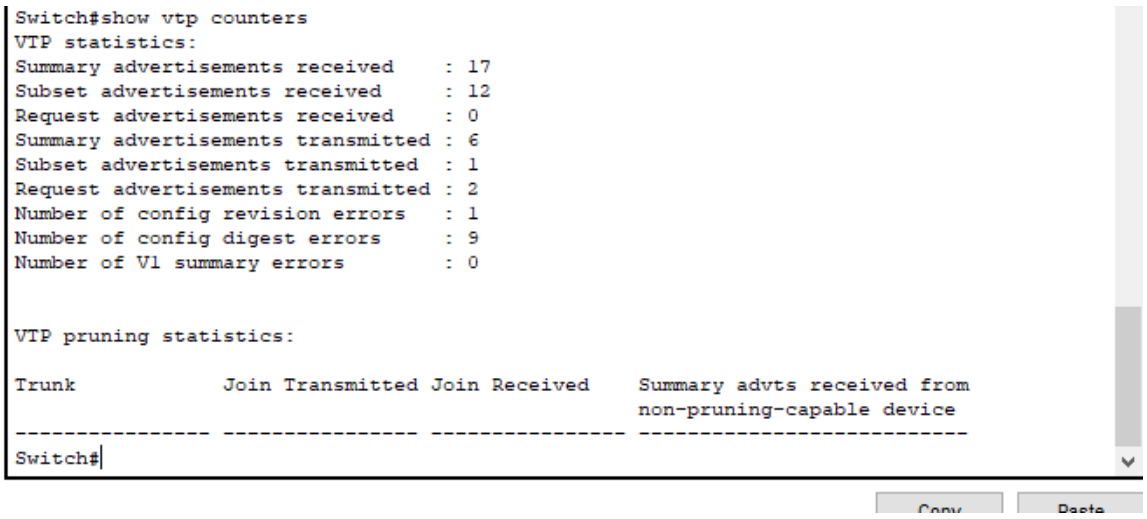
Switch#show vtp counters
VTP statistics:
Summary advertisements received : 17
Subset advertisements received : 12
Request advertisements received : 0
Summary advertisements transmitted : 6
Subset advertisements transmitted : 1
Request advertisements transmitted : 2
Number of config revision errors : 1
Number of config digest errors : 9
Number of V1 summary errors : 0
VTP pruning statistics:
Trunk Join Transmitted Join Received Summary advts received from
non-pruning-capable device
Switch#
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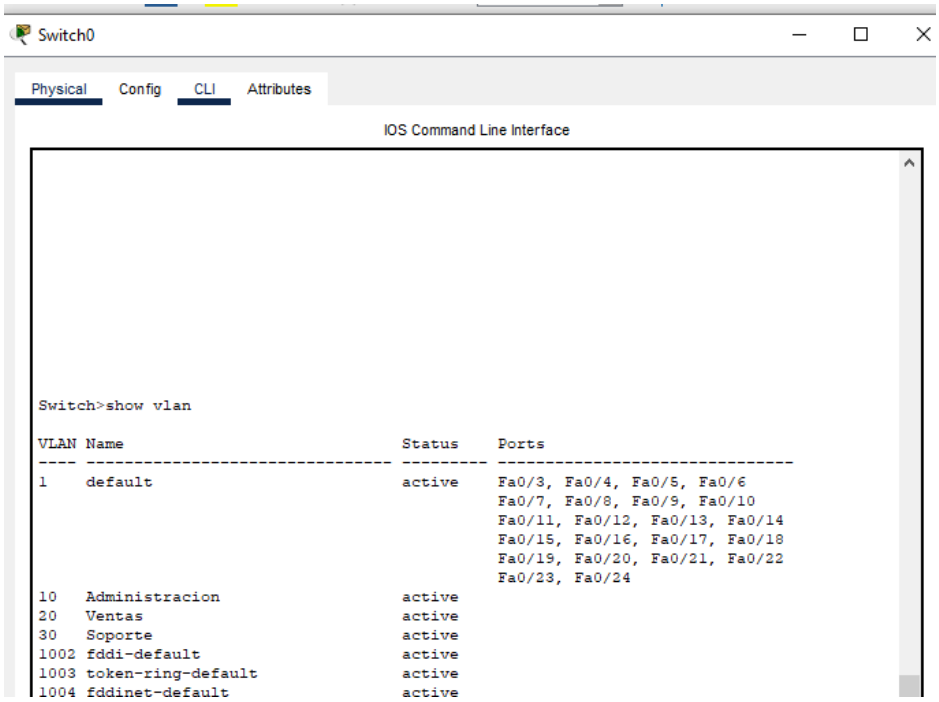

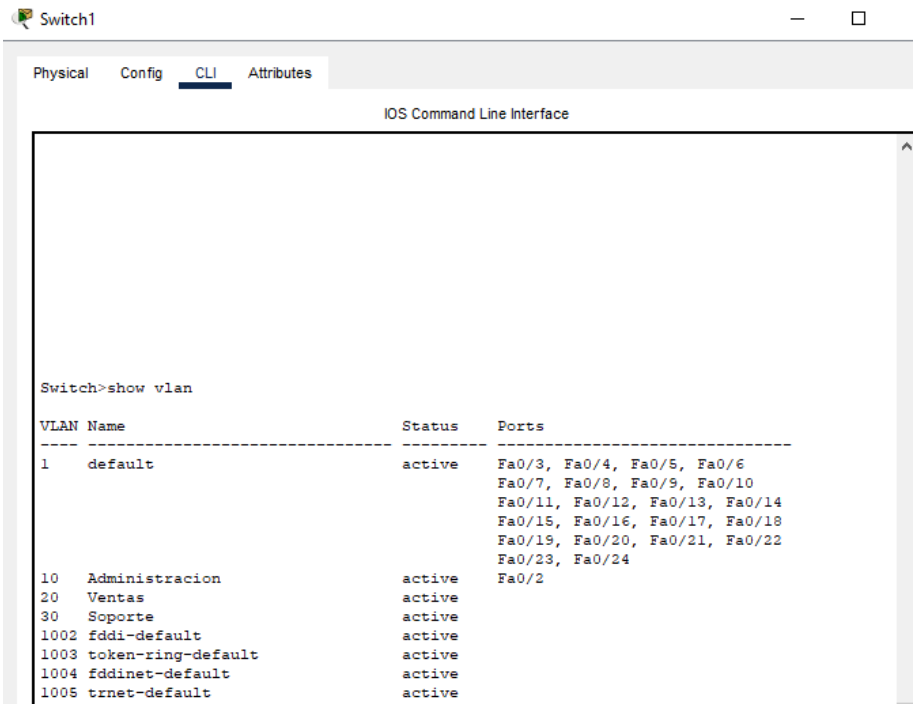

Efectivamente no esta la vlan 40 en los otros switches.