

PC0

Physical

Config

Desktop

Programming

Attributes

IP Configuration

Interface

FastEthernet0

IP Configuration

DHCP

Static

IPv4 Address

172.17.10.1

Subnet Mask

255.255.0.0

Default Gateway

0.0.0.0

DNS Server

0.0.0.0

IPv6 Configuration

Automatic

Static

IPv6 Address

Link Local Address

FE80::260:47FF:FE12:1900

Default Gateway

DNS Server

802.1X

Use 802.1X Security

Authentication

MD5

Username

Password

PC3

Physical

Config

Desktop

Programming

Attributes

IP Configuration

Interface

FastEthernet0

IP Configuration

DHCP

Static

IPv4 Address

172.17.10.2

Subnet Mask

255.255.0.0

Default Gateway

0.0.0.0

DNS Server

0.0.0.0

IPv6 Configuration

Automatic

Static

IPv6 Address

Link Local Address

FE80::2D0:FFFF:FE6E:B591

Default Gateway

DNS Server

802.1X

Use 802.1X Security

Authentication

MD5

Username

Password

S1

Physical Config CLI Attributes

IOS Command Line Interface

```
%SYS-5-CONFIG_I: Configured from console by console
S1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
S1(config)#enable secret class
S1(config)#service password-encryption
S1(config)#exit
S1#
%SYS-5-CONFIG_I: Configured from console by console
S1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
S1(config)#line console 0
S1(config-line)#password cisco
S1(config-line)#login
S1(config-line)#exit
S1(config)#exit
S1#
%SYS-5-CONFIG_I: Configured from console by console
S1#ena
S1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
S1(config)#line vty 0 15
S1(config-line)#password cisco
S1(config-line)#login
S1(config-line)#exit
S1(config)#exit
S1#
%SYS-5-CONFIG_I: Configured from console by console
S1#do wr
^
% Invalid input detected at '^' marker.
S1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
S1(config)#do wr
Building configuration...
[OK]
S1(config)#
```

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S2

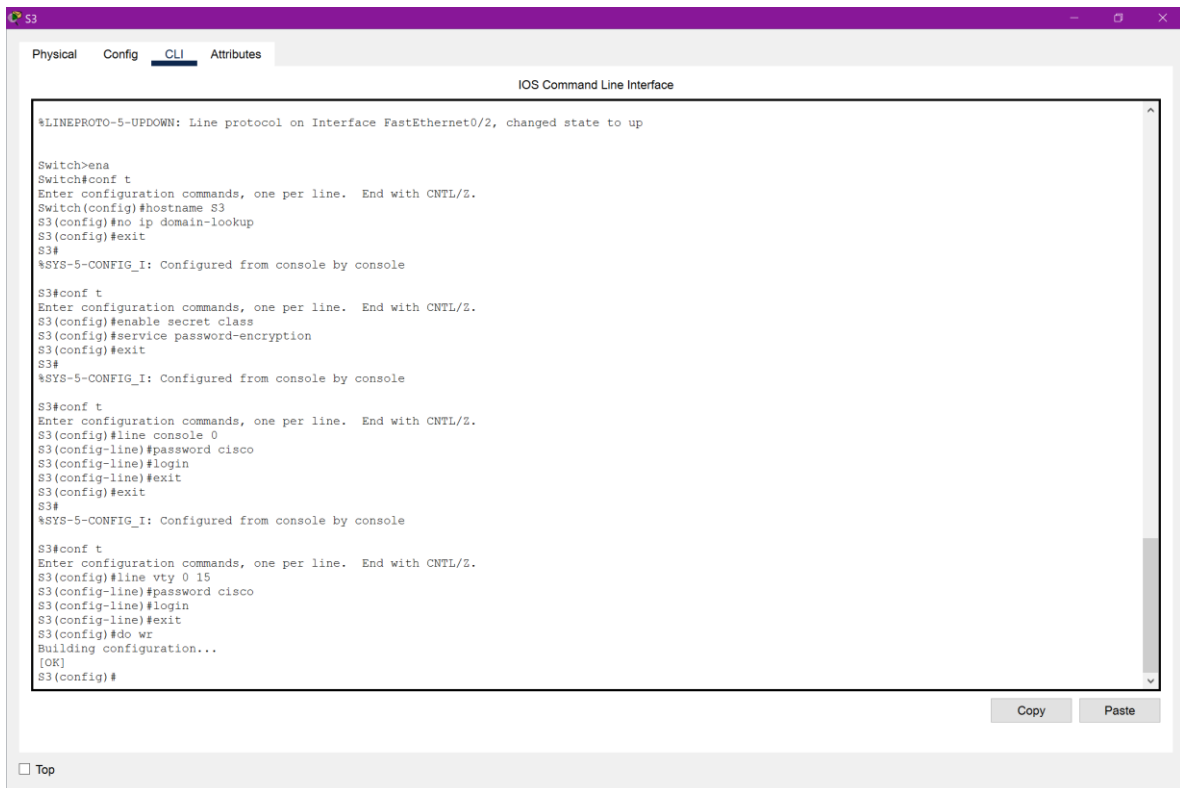
Physical Config CLI Attributes

IOS Command Line Interface

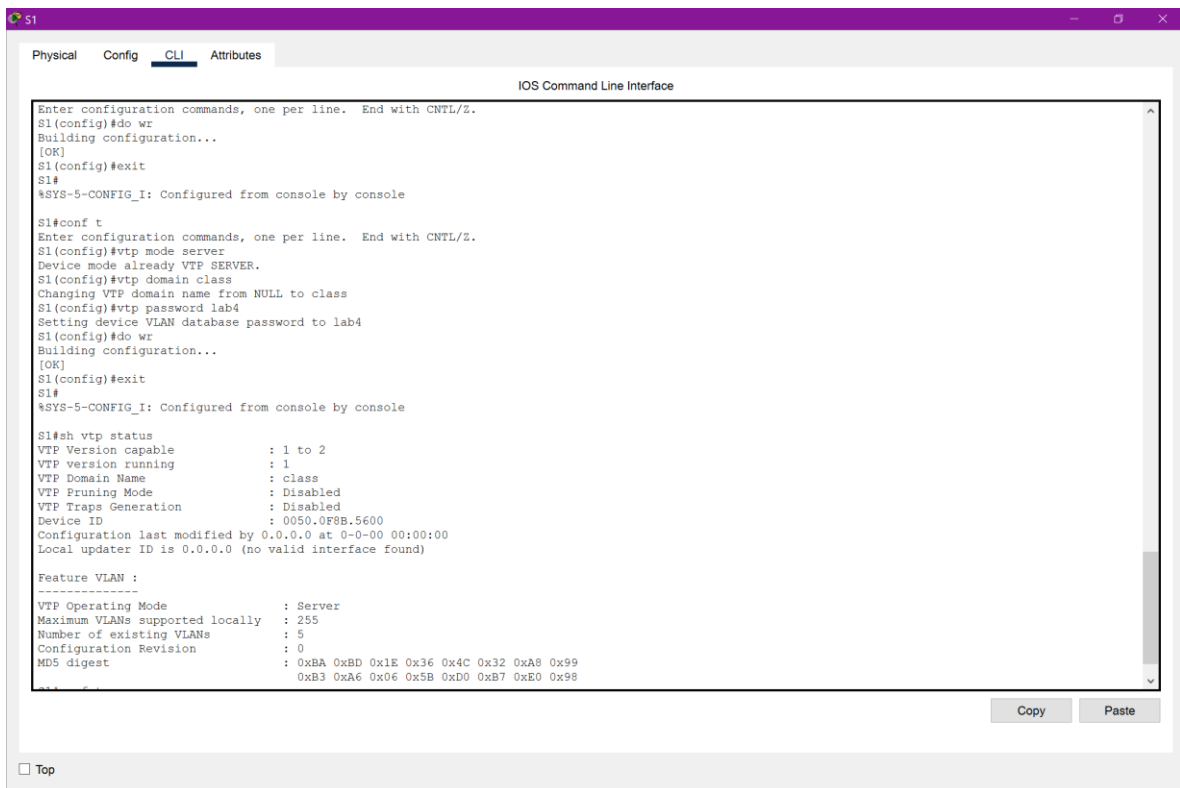
```
1002 fddi-default active
1003 token-ring-default active
1004 fddinet-default active
1005 trnet-default active
Switch#ena
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname S2
S2(config)#no ip domain-lookup
S2(config)#exit
S2#
%SYS-5-CONFIG_I: Configured from console by console
S2#conf t
Enter configuration commands, one per line. End with CNTL/Z.
S2(config)#enable secret class
S2(config)#service password-encryption
S2(config)#exit
S2#
%SYS-5-CONFIG_I: Configured from console by console
S2#conf t
Enter configuration commands, one per line. End with CNTL/Z.
S2(config)#line console 0
S2(config-line)#password cisco
S2(config-line)#login
S2(config-line)#exit
S2(config)#exit
S2#
%SYS-5-CONFIG_I: Configured from console by console
S2#conf t
Enter configuration commands, one per line. End with CNTL/Z.
S2(config)#line vty 0 15
S2(config-line)#password cisco
S2(config-line)#login
S2(config-line)#exit
S2(config)#do wr
Building configuration...
[OK]
S2(config)#
```

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## VTP:



S2

Physical Config CLI Attributes

IOS Command Line Interface

```
S2(config-line)#exit
S2(config)#do wr
Building configuration...
[OK]
S2(config)#exit
S2#
%SYS-5-CONFIG_I: Configured from console by console

S2#conf t
Enter configuration commands, one per line. End with CNTL/Z.
S2(config)#vtp mode client
Setting device to VTP CLIENT mode.
S2(config)#vtp domain class
Changing VTP domain name from NULL to class
S2(config)#vtp password lab4
Setting device VLAN database password to lab4
S2(config)#do wr
Building configuration...
[OK]
S2(config)#exit
S2#
%SYS-5-CONFIG_I: Configured from console by console

S2#sh vtp status
VTP Version capable      : 1 to 2
VTP version running      : 1
VTP Domain Name          : class
VTP Pruning Mode          : Disabled
VTP Traps Generation     : Disabled
Device ID                 : 0002.168B.5300
Configuration last modified by 0.0.0.0 at 0-0-00 00:00:00

Feature VLAN :
-----
VTP Operating Mode        : Client
Maximum VLANs supported locally : 255
Number of existing VLANs   : 5
Configuration Revision     : 0
MD5 digest                : 0xBA 0xBD 0x1E 0x36 0x4C 0x32 0xA8 0x99
                           : 0xB3 0xA6 0x06 0x5B 0xD0 0xB7 0xE0 0x98
S2#
```

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S3

Physical Config CLI Attributes

IOS Command Line Interface

```
S3(config-line)#exit
S3(config)#do wr
Building configuration...
[OK]
S3(config)#exit
S3#
%SYS-5-CONFIG_I: Configured from console by console

S3#conf t
Enter configuration commands, one per line. End with CNTL/Z.
S3(config)#vtp mode transparent
Setting device to VTP TRANSPARENT mode.
S3(config)#vtp domain class
Changing VTP domain name from NULL to class
S3(config)#vtp password lab4
Setting device VLAN database password to lab4
S3(config)#do wr
Building configuration...
[OK]
S3(config)#exit
S3#
%SYS-5-CONFIG_I: Configured from console by console

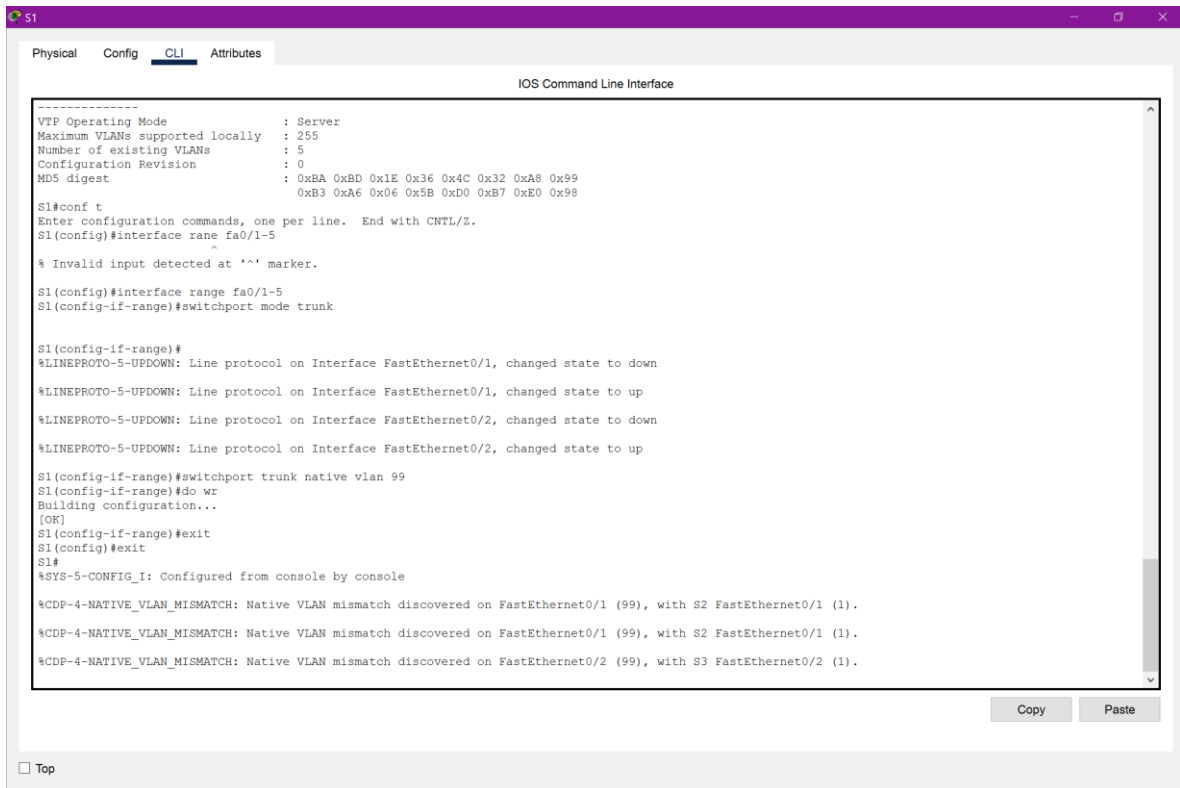
S3#sh vtp status
VTP Version capable      : 1 to 2
VTP version running      : 1
VTP Domain Name          : class
VTP Pruning Mode          : Disabled
VTP Traps Generation     : Disabled
Device ID                 : 0002.4AC4.9200
Configuration last modified by 0.0.0.0 at 0-0-00 00:00:00

Feature VLAN :
-----
VTP Operating Mode        : Transparent
Maximum VLANs supported locally : 255
Number of existing VLANs   : 5
Configuration Revision     : 0
MD5 digest                : 0xBA 0xBD 0x1E 0x36 0x4C 0x32 0xA8 0x99
                           : 0xB3 0xA6 0x06 0x5B 0xD0 0xB7 0xE0 0x98
S3#
```

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## VLAN 99 NATIVA & Seguridad del puerto limitada (Sw2 y Sw3):



```
S1
Physical Config CLI Attributes
IOS Command Line Interface

VTP Operating Mode      : Server
Maximum VLANs supported locally : 255
Number of existing VLANs : 5
Configuration Revision   : 0
MD5 digest               : 0xBA 0xBD 0x1E 0x36 0x4C 0x32 0xA8 0x99
                        : 0xB3 0xA6 0x06 0x5B 0xD0 0xB7 0xE0 0x98

S1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
S1(config)#interface range fa0/1-5
% Invalid input detected at '^' marker.

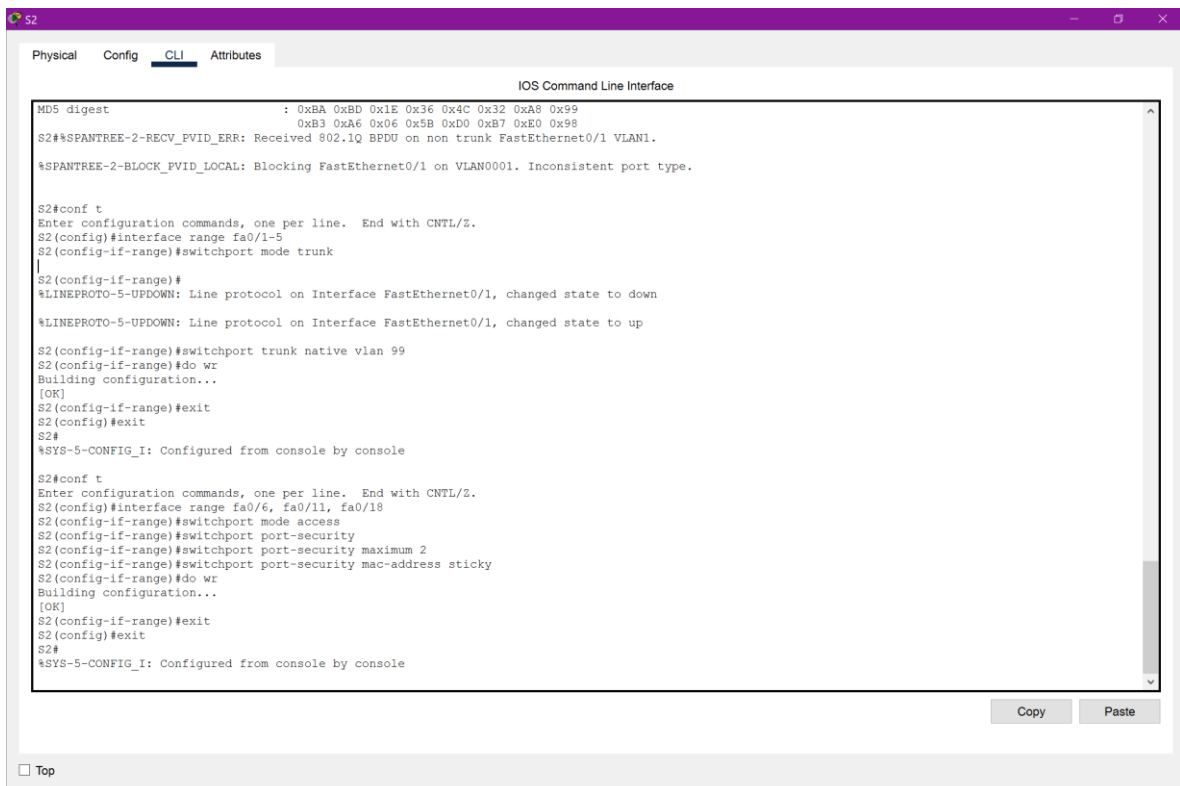
S1(config)#interface range fa0/1-5
S1(config-if-range)#switchport mode trunk

S1(config-if-range)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up

S1(config-if-range)#switchport trunk native vlan 99
S1(config-if-range)#do wr
Building configuration...
[OK]
S1(config-if-range)#exit
S1(config)#exit
S1#
%SYS-5-CONFIG_I: Configured from console by console

%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on FastEthernet0/1 (99), with S2 FastEthernet0/1 (1).
%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on FastEthernet0/1 (99), with S2 FastEthernet0/1 (1).
%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on FastEthernet0/2 (99), with S3 FastEthernet0/2 (1).
```

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```
S2
Physical Config CLI Attributes
IOS Command Line Interface

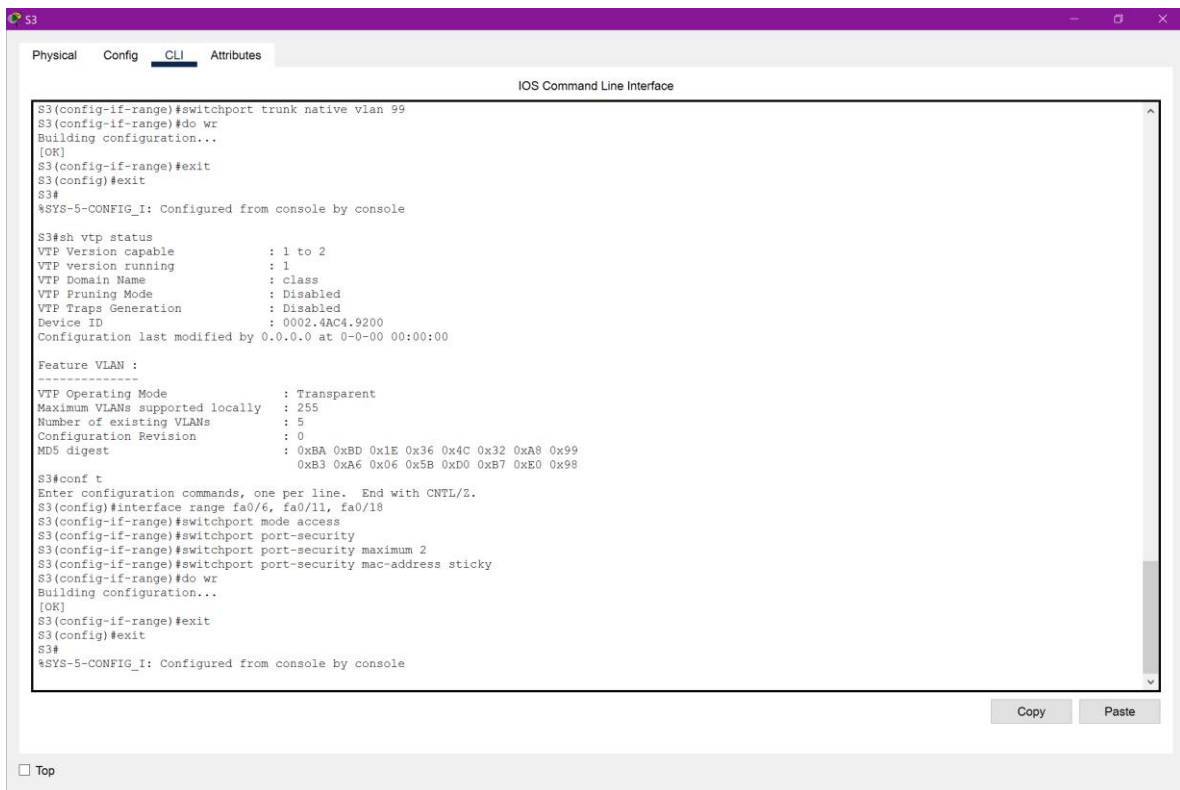
MD5 digest               : 0xBA 0xBD 0x1E 0x36 0x4C 0x32 0xA8 0x99
                        : 0xB3 0xA6 0x06 0x5B 0xD0 0xB7 0xE0 0x98
S2##SPANNTREE-2-RECV_PVID_ERR: Received 802.1Q BPDU on non trunk FastEthernet0/1 VLAN1.
%SPANNTREE-2-BLOCK_PVID_LOCAL: Blocking FastEthernet0/1 on VLAN0001. Inconsistent port type.

S2#conf t
Enter configuration commands, one per line. End with CNTL/Z.
S2(config)#interface range fa0/1-5
S2(config-if-range)#switchport mode trunk
S2(config-if-range)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

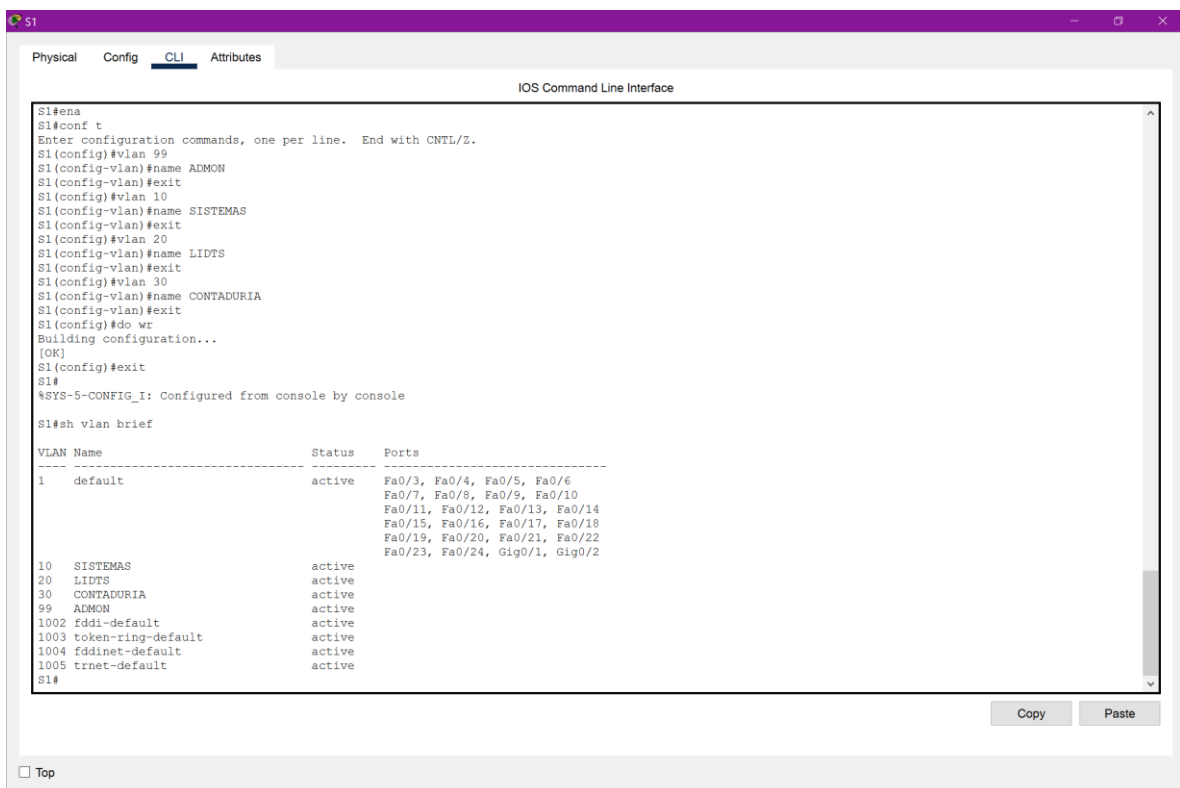
S2(config-if-range)#switchport trunk native vlan 99
S2(config-if-range)#do wr
Building configuration...
[OK]
S2(config-if-range)#exit
S2(config)#exit
S2#
%SYS-5-CONFIG_I: Configured from console by console

S2#conf t
Enter configuration commands, one per line. End with CNTL/Z.
S2(config)#interface range fa0/6, fa0/11, fa0/18
S2(config-if-range)#switchport mode access
S2(config-if-range)#switchport port-security
S2(config-if-range)#switchport port-security maximum 2
S2(config-if-range)#switchport port-security mac-address sticky
S2(config-if-range)#do wr
Building configuration...
[OK]
S2(config-if-range)#exit
S2(config)#exit
S2#
%SYS-5-CONFIG_I: Configured from console by console
```

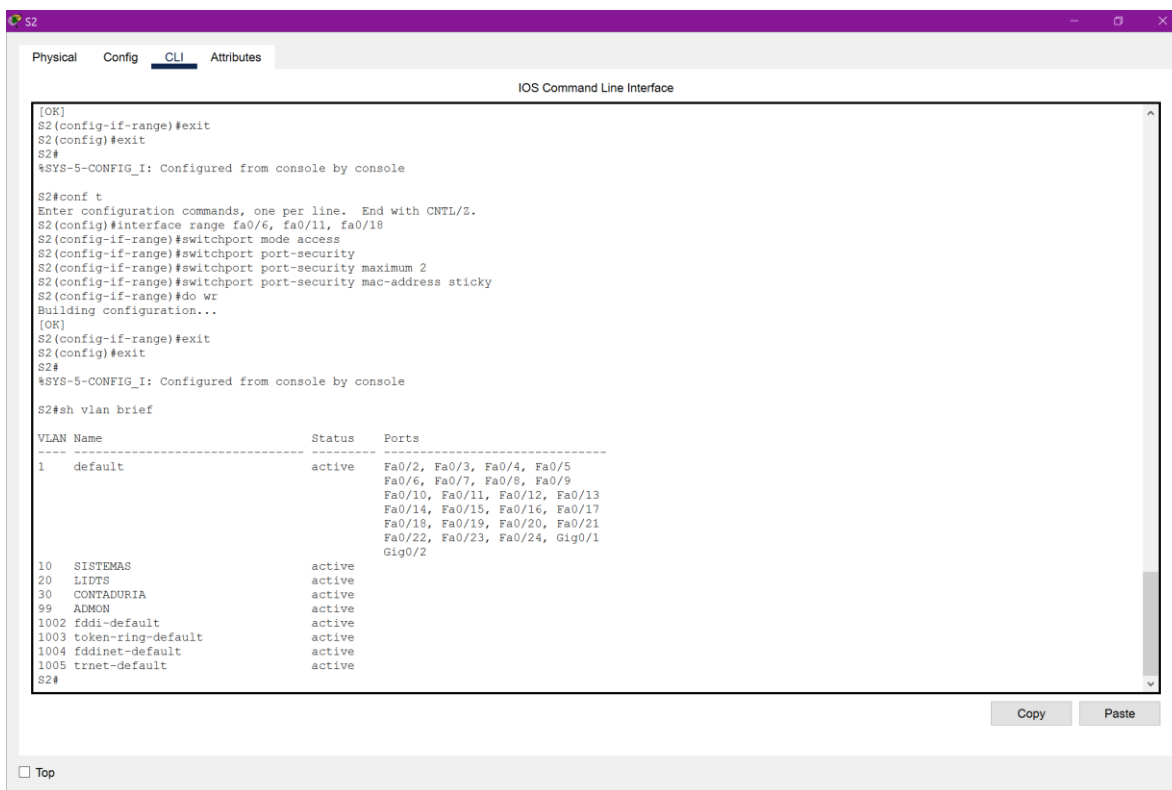
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## Configuración VLANS (VTP SERVIDOR SW1):



## Propagación SW2 (SW3 no \*modo transparente\*).



The screenshot shows the CLI of switch S2. The configuration section shows the setup of interfaces fa0/6 through fa0/18 as access ports with port-security enabled. The VLAN status table shows VLAN 1 (default) is active with ports Fa0/2 through Fa0/24 and Gig0/1. Other VLANs like SISTEMAS, LIDS, CONTADURIA, ADMON, and various default VLANs are also listed as active.

```
[OK]
S2(config-if-range)#exit
S2(config)#exit
S2#
*SYS-5-CONFIG_I: Configured from console by console

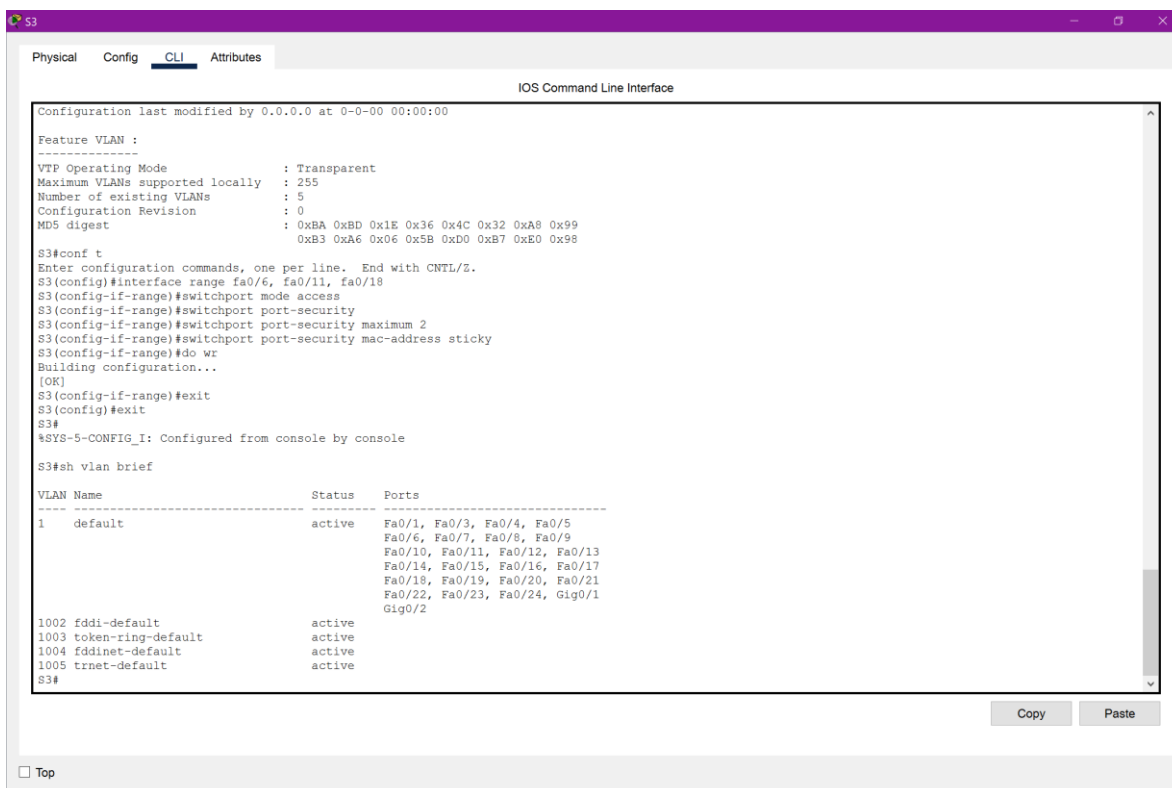
S2#conf t
Enter configuration commands, one per line. End with CNTL/Z.
S2(config)#interface range fa0/6, fa0/11, fa0/18
S2(config-if-range)#switchport mode access
S2(config-if-range)#switchport port-security
S2(config-if-range)#switchport port-security maximum 2
S2(config-if-range)#switchport port-security mac-address sticky
S2(config-if-range)#do wr
Building configuration...
[OK]
S2(config-if-range)#exit
S2(config)#exit
S2#
*SYS-5-CONFIG_I: Configured from console by console

S2#sh vlan brief
```

VLAN	Name	Status	Ports
1	default	active	Fa0/2, 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
10	SISTEMAS	active	
20	LIDS	active	
30	CONTADURIA	active	
99	ADMON	active	
1002	fdi-default	active	
1003	token-ring-default	active	
1004	fdinet-default	active	
1005	trnet-default	active	

S2#

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The screenshot shows the CLI of switch S3. The configuration section shows the setup of interfaces fa0/6 through fa0/18 as access ports with port-security enabled. The VLAN status table shows VLAN 1 (default) is active with ports Fa0/1 through Fa0/24 and Gig0/1. Other VLANs like fddi-default, token-ring-default, fddinet-default, and trnet-default are also listed as active.

```
Configuration last modified by 0.0.0.0 at 0-0-00 00:00:00

Feature VLAN :
-----
VTP Operating Mode      : Transparent
Maximum VLANs supported locally : 255
Number of existing VLANs : 5
Configuration Revision   : 0
MD5 digest               : 0xBA 0xBD 0x1E 0x36 0x4C 0x32 0xA8 0x99
                        : 0xB3 0xA6 0x06 0x5B 0xD0 0xB7 0xE0 0x98

S3#conf t
Enter configuration commands, one per line. End with CNTL/Z.
S3(config)#interface range fa0/6, fa0/11, fa0/18
S3(config-if-range)#switchport mode access
S3(config-if-range)#switchport port-security
S3(config-if-range)#switchport port-security maximum 2
S3(config-if-range)#switchport port-security mac-address sticky
S3(config-if-range)#do wr
Building configuration...
[OK]
S3(config-if-range)#exit
S3(config)#exit
S3#
*SYS-5-CONFIG_I: Configured from console by console

S3#sh vlan brief
```

VLAN	Name	Status	Ports
1	default	active	Fa0/1, 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
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

S3#

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Cambio de SW3 a modo cliente:

The screenshot shows a network configuration window for a switch named S3. The 'CLI' tab is active, displaying the 'IOS Command Line Interface'. The configuration process includes entering 'vtp mode client' and 'do wr' to save the configuration. Below the commands, a 'sh vlan brief' command is executed, resulting in a table of VLANs. A red box highlights the last five entries of this table, which are the VLANs being configured for the client mode.

```
S3#conf t
Enter configuration commands, one per line. End with CNTL/Z.
S3(config)#vtp mode client
Setting device to VTP CLIENT mode.
S3(config)#do wr
Building configuration...
[OK]
S3(config)#exit
S3#
%SYS-5-CONFIG_I: Configured from console by console
S3#sh vlan brief
```

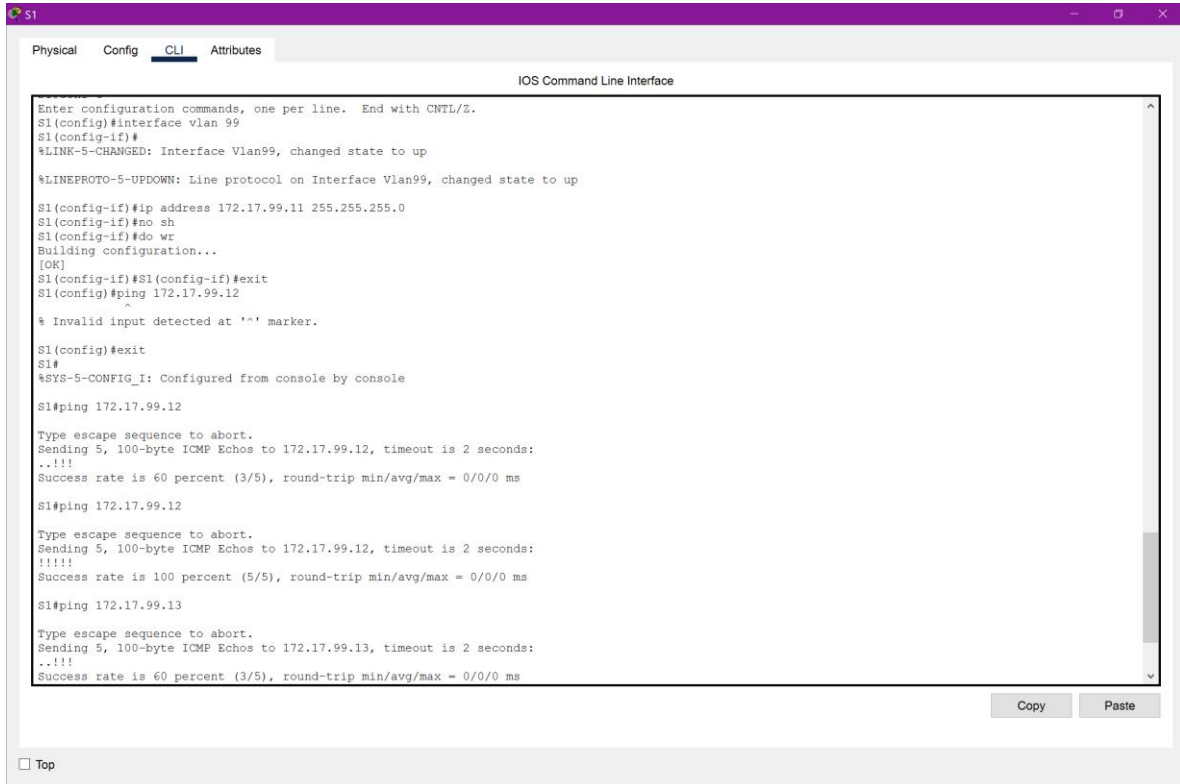
VLAN Name	Status	Ports
1 default	active	Fa0/1, Fa0/3, Fa0/4, Fa0/5 Fa0/6, Fa0/7, Fa0/8, Fa0/9 Fa0/10, Fa0/11, Fa0/12, Fa0/13 Fa0/14, Fa0/15, Fa0/16, Fa0/17 Fa0/18, Fa0/19, Fa0/20, Fa0/21 Fa0/22, Fa0/23, Fa0/24, Gig0/1 Gig0/2
10 SISTEMAS	active	
20 LIDTS	active	
30 CONTADURIA	active	
99 ADMON	active	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

Buttons: Copy, Paste

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## PING entre SWITCHES:



The screenshot shows the S1 CLI interface with the following commands and output:

```
Enter configuration commands, one per line. End with CNTL/Z.
S1(config)#interface vlan 99
S1(config-if)#
%LINK-5-CHANGED: Interface Vlan99, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan99, changed state to up
S1(config-if)#ip address 172.17.99.11 255.255.255.0
S1(config-if)#no sh
S1(config-if)#do wr
Building configuration...
[OK]
S1(config-if)#S1(config-if)#exit
S1(config)#ping 172.17.99.12
^
% Invalid input detected at '^' marker.

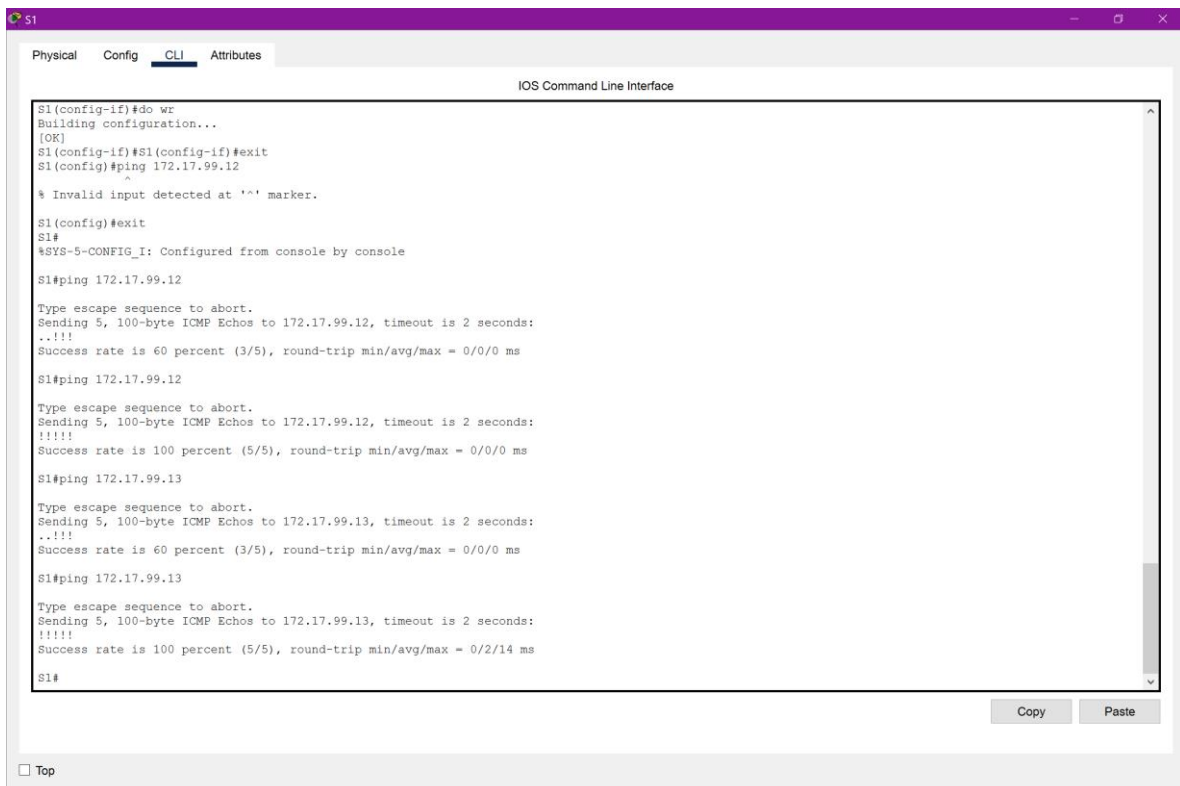
S1(config)#exit
S1#
%SYS-5-CONFIG_I: Configured from console by console
S1#ping 172.17.99.12
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 172.17.99.12, timeout is 2 seconds:
.....
Success rate is 60 percent (3/5), round-trip min/avg/max = 0/0/0 ms

S1#ping 172.17.99.12
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 172.17.99.12, timeout is 2 seconds:
!!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/0 ms

S1#ping 172.17.99.13
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 172.17.99.13, timeout is 2 seconds:
.....
Success rate is 60 percent (3/5), round-trip min/avg/max = 0/0/0 ms
```

Buttons: Copy, Paste

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The screenshot shows the S1 CLI interface with the following commands and output:

```
S1(config-if)#do wr
Building configuration...
[OK]
S1(config-if)#S1(config-if)#exit
S1(config)#ping 172.17.99.12
^
% Invalid input detected at '^' marker.

S1(config)#exit
S1#
%SYS-5-CONFIG_I: Configured from console by console
S1#ping 172.17.99.12
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 172.17.99.12, timeout is 2 seconds:
.....
Success rate is 60 percent (3/5), round-trip min/avg/max = 0/0/0 ms

S1#ping 172.17.99.12
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 172.17.99.12, timeout is 2 seconds:
!!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/0 ms

S1#ping 172.17.99.13
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 172.17.99.13, timeout is 2 seconds:
.....
Success rate is 60 percent (3/5), round-trip min/avg/max = 0/0/0 ms

S1#ping 172.17.99.13
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 172.17.99.13, timeout is 2 seconds:
!!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/2/14 ms

S1#
```

Buttons: Copy, Paste

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```
S2
Physical Config CLI Attributes
IOS Command Line Interface

Password:
Password:

S2>ena
Password:
Password:
S2#conf t
Enter configuration commands, one per line. End with CNTL/Z.
S2(config)#
S2(config)#interface vlan 99
S2(config-if)#
%LINK-5-CHANGED: Interface Vlan99, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan99, changed state to up

S2(config-if)#ip address 172.17.99.12 255.255.255.0
S2(config-if)#no sh
S2(config-if)#do wr
Building configuration...
[OK]
S2(config-if)#exit
S2(config)#exit
S2#
%SYS-5-CONFIG_I: Configured from console by console

S2#pin 172.17.99.13

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 172.17.99.13, timeout is 2 seconds:
.....
Success rate is 60 percent (3/5), round-trip min/avg/max = 0/0/0 ms

S2#ping 172.17.99.13

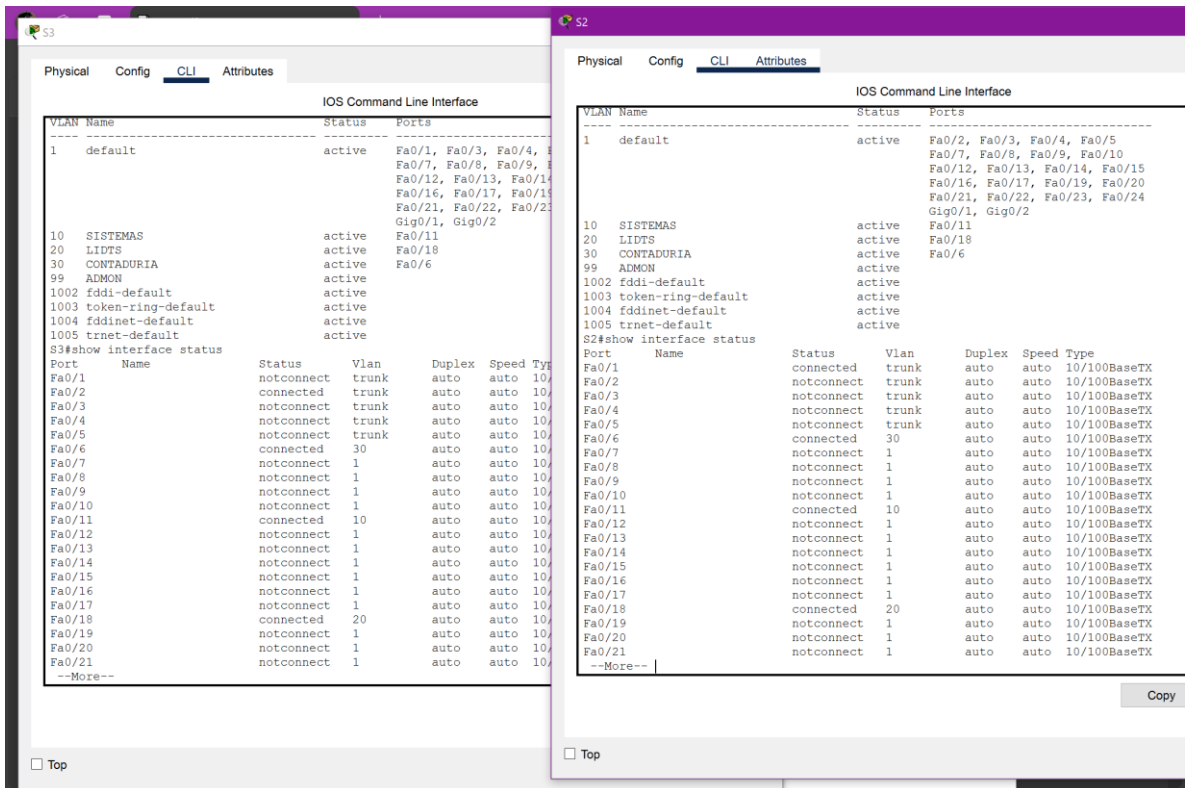
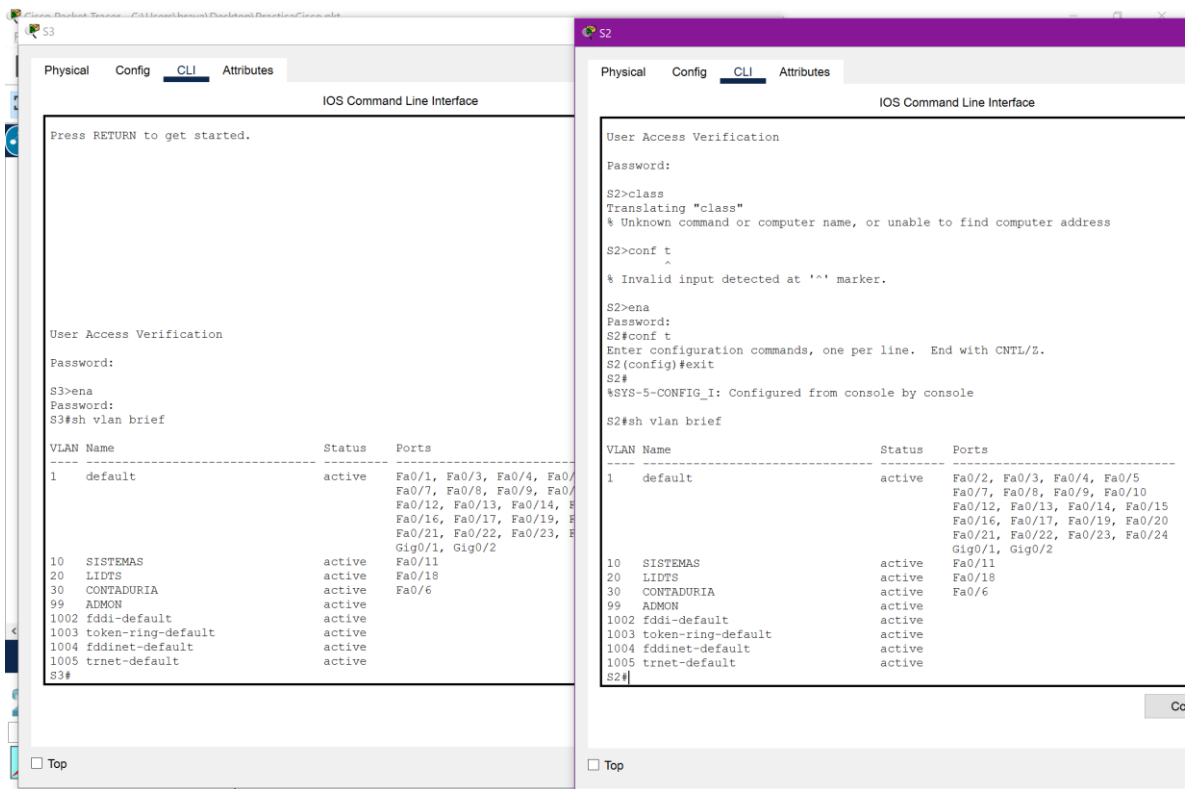
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 172.17.99.13, timeout is 2 seconds:
!!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/0 ms

S2#
```

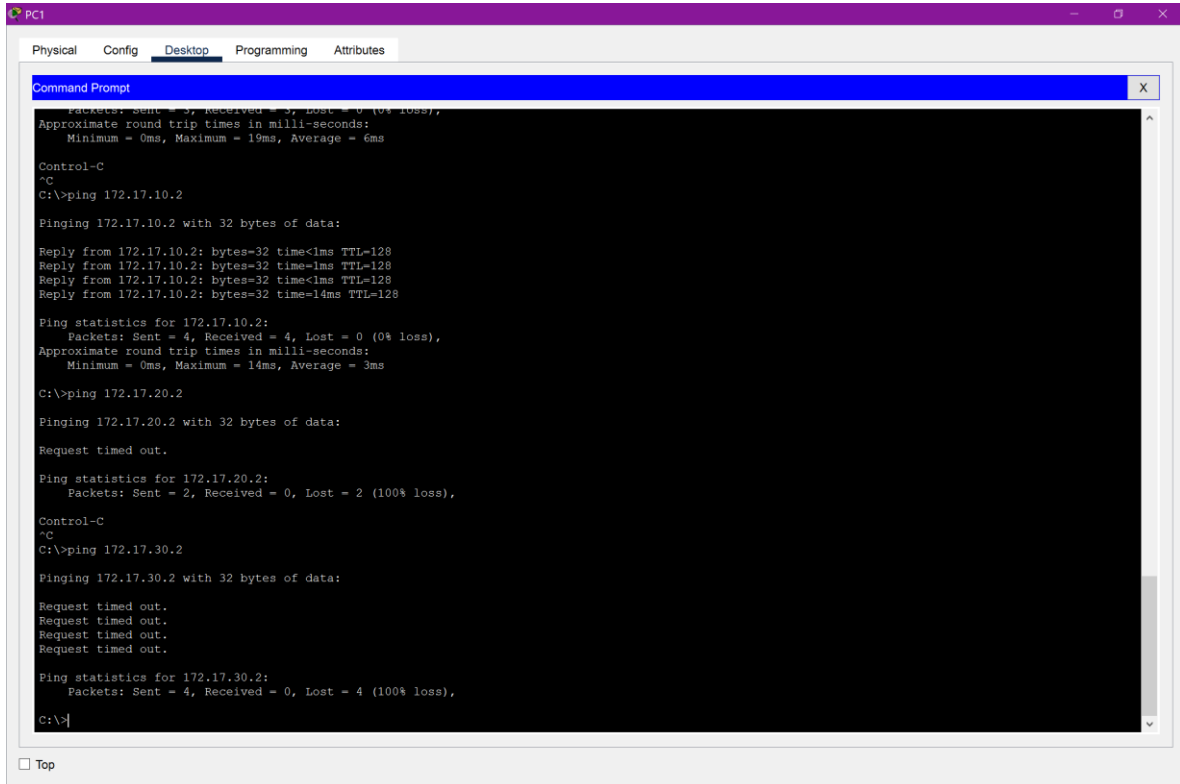
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Ningún PING fallido.



## PING PC's:



PC1

Physical Config Desktop Programming Attributes

Command Prompt

```
Packets: Sent = 3, Received = 3, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
  Minimum = 0ms, Maximum = 19ms, Average = 6ms

Control-C
^C
C:\>ping 172.17.10.2

Pinging 172.17.10.2 with 32 bytes of data:

Reply from 172.17.10.2: bytes=32 time<1ms TTL=128
Reply from 172.17.10.2: bytes=32 time<1ms TTL=128
Reply from 172.17.10.2: bytes=32 time<1ms TTL=128
Reply from 172.17.10.2: bytes=32 time=14ms TTL=128

Ping statistics for 172.17.10.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
      Minimum = 0ms, Maximum = 14ms, Average = 3ms

C:\>ping 172.17.20.2

Pinging 172.17.20.2 with 32 bytes of data:

Request timed out.

Ping statistics for 172.17.20.2:
    Packets: Sent = 2, Received = 0, Lost = 2 (100% loss),

Control-C
^C
C:\>ping 172.17.30.2

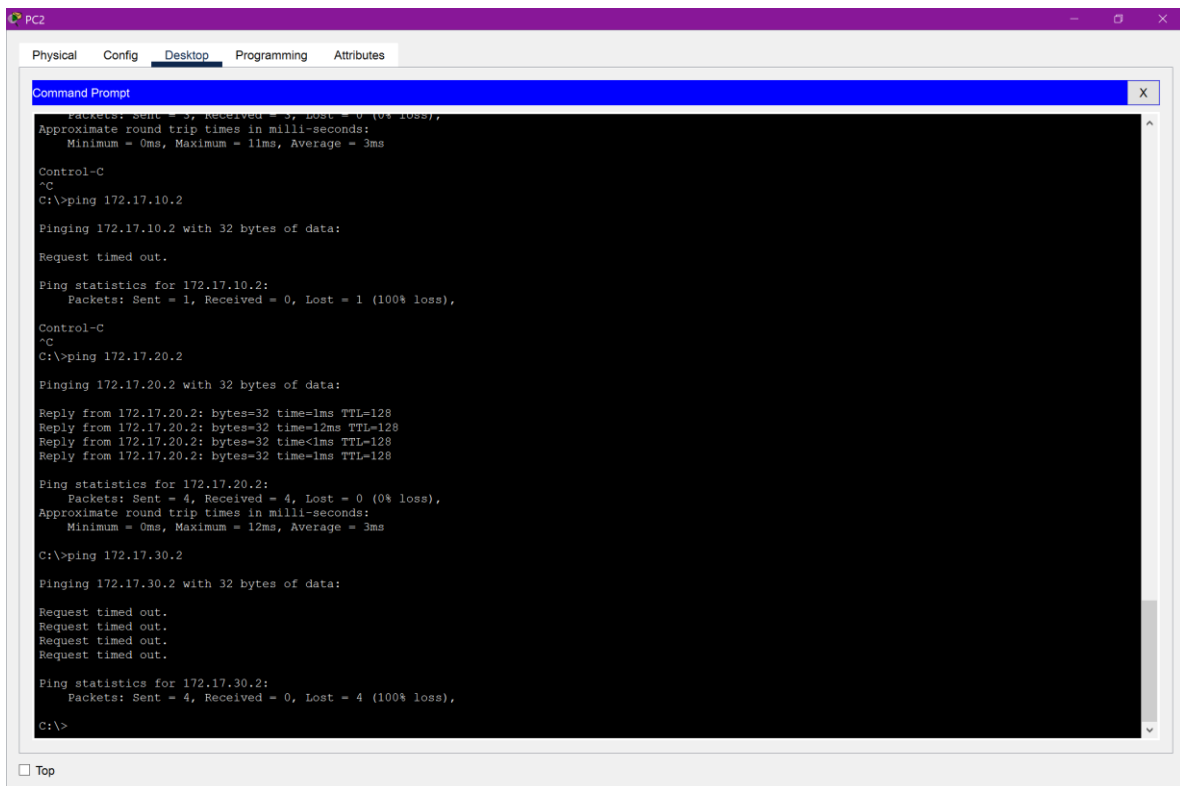
Pinging 172.17.30.2 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 172.17.30.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

☐ Top



PC2

Physical Config Desktop Programming Attributes

Command Prompt

```
Packets: Sent = 3, Received = 3, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
  Minimum = 0ms, Maximum = 11ms, Average = 3ms

Control-C
^C
C:\>ping 172.17.10.2

Pinging 172.17.10.2 with 32 bytes of data:

Request timed out.

Ping statistics for 172.17.10.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),

Control-C
^C
C:\>ping 172.17.20.2

Pinging 172.17.20.2 with 32 bytes of data:

Reply from 172.17.20.2: bytes=32 time=1ms TTL=128
Reply from 172.17.20.2: bytes=32 time=12ms TTL=128
Reply from 172.17.20.2: bytes=32 time<1ms TTL=128
Reply from 172.17.20.2: bytes=32 time=1ms TTL=128

Ping statistics for 172.17.20.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
      Minimum = 0ms, Maximum = 12ms, Average = 3ms

C:\>ping 172.17.30.2

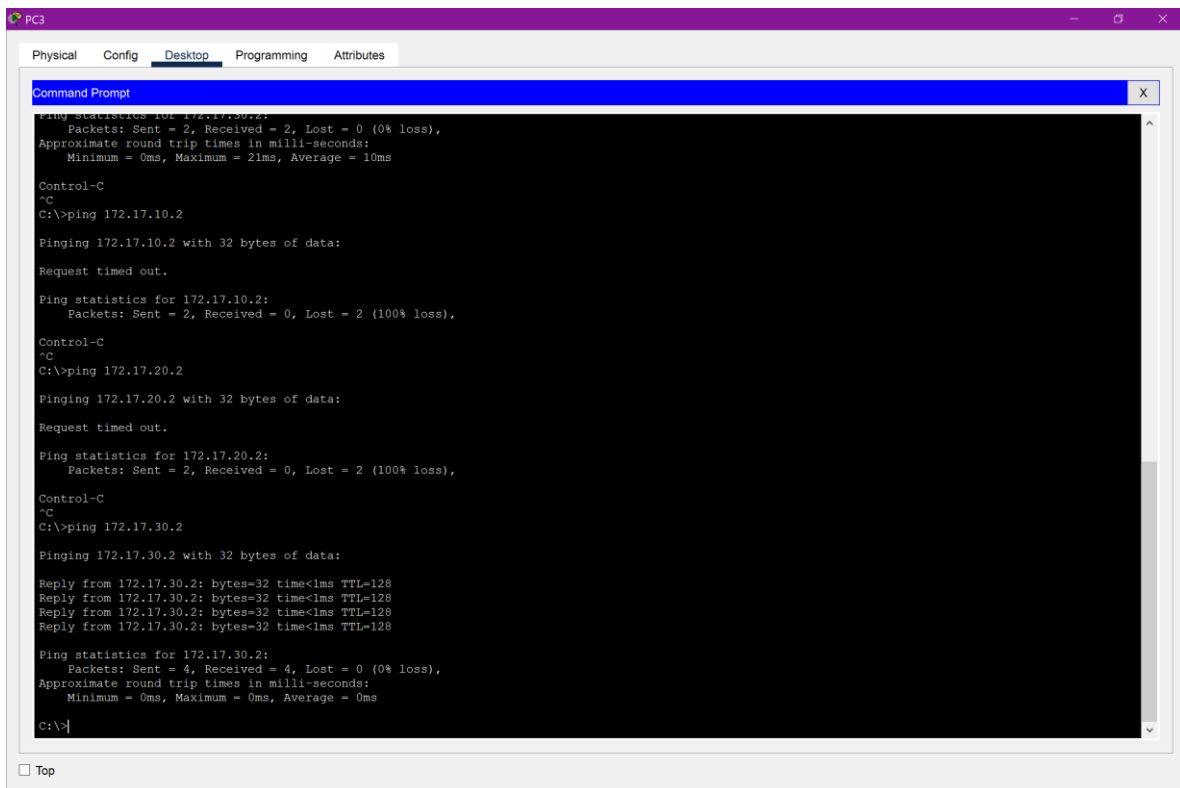
Pinging 172.17.30.2 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 172.17.30.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

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```
PC3
Physical Config Desktop Programming Attributes
Command Prompt
Ping statistics for 172.17.30.2:
Packets: Sent = 2, Received = 2, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 21ms, Average = 10ms

Control-C
^C
C:\>ping 172.17.10.2

Pinging 172.17.10.2 with 32 bytes of data:
Request timed out.

Ping statistics for 172.17.10.2:
Packets: Sent = 2, Received = 0, Lost = 2 (100% loss),

Control-C
^C
C:\>ping 172.17.20.2

Pinging 172.17.20.2 with 32 bytes of data:
Request timed out.

Ping statistics for 172.17.20.2:
Packets: Sent = 2, Received = 0, Lost = 2 (100% loss),

Control-C
^C
C:\>ping 172.17.30.2

Pinging 172.17.30.2 with 32 bytes of data:
Reply from 172.17.30.2: bytes=32 time<1ms TTL=128
Reply from 172.17.30.2: bytes=32 time<1ms TTL=128
Reply from 172.17.30.2: bytes=32 time<1ms TTL=128
Reply from 172.17.30.2: bytes=32 time<1ms TTL=128

Ping statistics for 172.17.30.2:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>|
```

**1. ¿Están las mismas VLAN configuradas en todos los switches?**

No.

**2. ¿Por qué S2 y S3 tienen diferentes configuraciones de VLAN en este punto?**

Esto, dado el estado asignado que tienen. Mientras SW2 está en modo cliente, recibe y acepta las configuraciones propagadas por SW1 en modo servidor.

Por otro lado, SW3 al estar en modo transparente, este, no recibe ni acepta ninguna configuración propagada por el SW1 en modo servidor; es decir, está desactivada su escucha activa.

**3. Desde PC1, intente hacer ping en PC4, PC5 y PC6. ¿Tuvo éxito alguno de los pings?**

Sí, tuvo éxito únicamente hacia PC4.

**4. ¿Por qué falló algún ping?**

Esto, porque únicamente acatan respuesta a los hosts que pertenecen a la misma vlan. Es decir: PC1-PC4, PC2-PC5 y PC3-PC6.

**5. ¿Qué hosts se alcanzaron desde PC3?**

PC6.