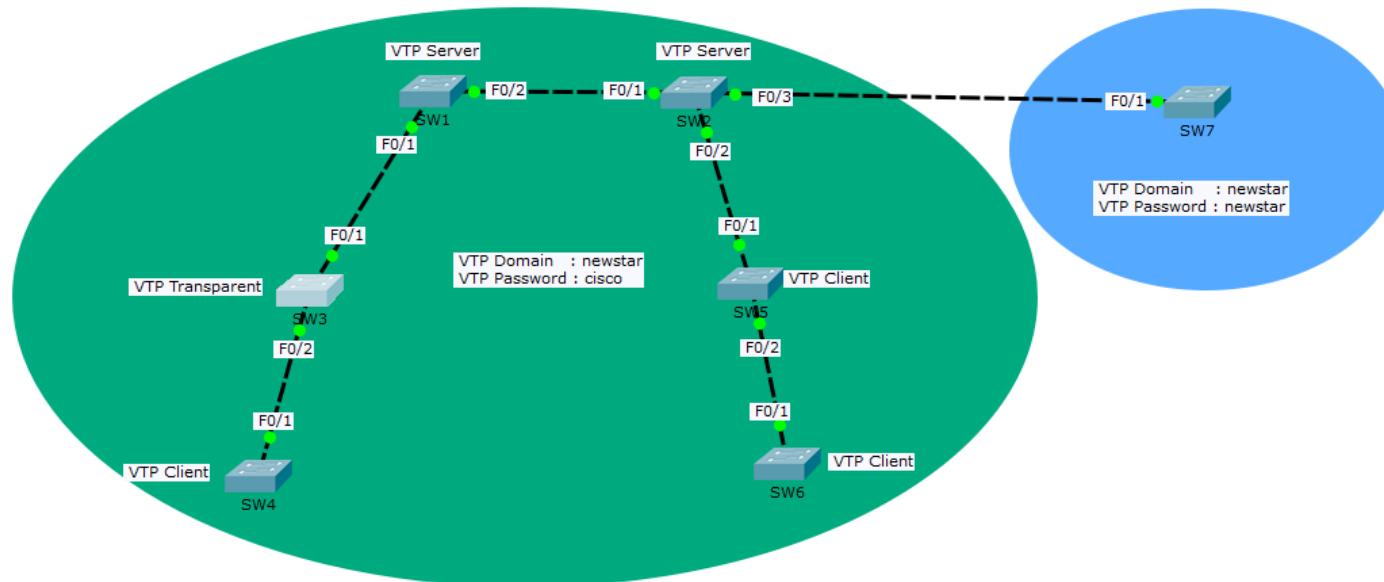


HƯỚNG DẪN LAB

LAB 11 – VTP

Designed by : Nguyễn Phú Thịnh

Sơ đồ LAB :



Yêu cầu

- Đầu nối và đặt tên thiết bị như sơ đồ
- Cấu hình trunk cho các kết nối giữa các switch
- Cấu hình VTP như sơ đồ

Thiết bị	VTP Domain	VTP Password	Vai trò
SW1	newstar	cisco	VTP Server
SW2	newstar	cisco	VTP Server
SW3	newstar	cisco	VTP Transparent
SW4	newstar	cisco	VTP Client
SW5	newstar	cisco	VTP Client
SW6	newstar	cisco	VTP Client
SW7	newstar	newstar	VTP Client

- Thử tạo/sửa/xóa vlan trên các switch và quan sát ảnh hưởng của VTP

Các bước thực hiện

Bước 1: Đầu nối và đổi tên thiết bị như sơ đồ.

Bước 2: Cấu hình trunk trên các switch

SW1

SW1(config)#**interface range F0/1-2**

SW1(config-if-range)#**switchport mode trunk**

Kiểm tra :

SW1#**show interfaces trunk**

Port	Mode	Encapsulation	Status	Native vlan
Fa0/1	on	802.1q	trunking	1
Fa0/2	on	802.1q	trunking	1

Port	Vlans allowed on trunk
Fa0/1	1-1005
Fa0/2	1-1005

Port	Vlans allowed and active in management domain
Fa0/1	1
Fa0/2	1

Port	Vlans in spanning tree forwarding state and not pruned
Fa0/1	none
Fa0/2	none

SW2					
SW2(config)# interface range F0/1-3					
SW2(config-if-range)# switchport mode trunk					
Kiểm tra:					
SW2# show interfaces trunk					

Port	Mode	Encapsulation	Status	Native vlan
Fa0/1	on	802.1q	trunking	1
Fa0/2	on	802.1q	trunking	1
Fa0/3	on	802.1q	trunking	1
Port	Vlans allowed on trunk			
Fa0/1	1-1005			
Fa0/2	1-1005			
Fa0/3	1-1005			
Port	Vlans allowed and active in management domain			
Fa0/1	1			
Fa0/2	1			
Fa0/3	1			
Port	Vlans in spanning tree forwarding state and not pruned			
Fa0/1	1			
Fa0/2	none			
Fa0/3	none			

SW3				
SW3(config)# interface range F0/1-2				
SW3(config-if-range)# switchport mode trunk				
Kiểm tra:				
SW3# show interfaces trunk				
Port	Mode	Encapsulation	Status	Native vlan
Fa0/1	on	802.1q	trunking	1
Fa0/2	on	802.1q	trunking	1
Port	Vlans allowed on trunk			
Fa0/1	1-1005			
Fa0/2	1-1005			
Port	Vlans allowed and active in management domain			
Fa0/1	1			
Fa0/2	1			
Port	Vlans in spanning tree forwarding state and not pruned			
Fa0/1	1			
Fa0/2	none			

SW4				
SW4(config)# interface F0/1				
SW4(config-if)# switchport mode trunk				
Kiểm tra:				
SW4# show interfaces trunk				
Port	Mode	Encapsulation	Status	Native vlan
Fa0/1	on	802.1q	trunking	1
Port	Vlans allowed on trunk			
Fa0/1	1-1005			
Port	Vlans allowed and active in management domain			
Fa0/1	1			
Port	Vlans in spanning tree forwarding state and not pruned			
Fa0/1	1			

SW5

```
SW5(config)#interface range F0/1-2
```

```
SW5(config-if-range)#switchport mode trunk
```

Kiểm tra:

```
SW5#show interfaces trunk
```

Port	Mode	Encapsulation	Status	Native vlan
Fa0/1	on	802.1q	trunking	1
Fa0/2	on	802.1q	trunking	1

Port	Vlans allowed on trunk
Fa0/1	1-1005
Fa0/2	1-1005

Port	Vlans allowed and active in management domain
Fa0/1	1
Fa0/2	1

Port	Vlans in spanning tree forwarding state and not pruned
Fa0/1	1
Fa0/2	none

SW6

```
SW6(config)#interface F0/1
```

```
SW6(config-if)#switchport mode trunk
```

Kiểm tra:

```
SW6#show interfaces trunk
```

Port	Mode	Encapsulation	Status	Native vlan
Fa0/1	on	802.1q	trunking	1

Port	Vlans allowed on trunk
Fa0/1	1-1005

Port	Vlans allowed and active in management domain
Fa0/1	1

Port	Vlans in spanning tree forwarding state and not pruned
Fa0/1	1

SW7

```
SW7(config)#interface F0/1
```

```
SW7(config-if)#switchport mode trunk
```

Kiểm tra:

```
SW7#show interfaces trunk
```

Port	Mode	Encapsulation	Status	Native vlan
Fa0/1	on	802.1q	trunking	1

Port	Vlans allowed on trunk
Fa0/1	1-1005

Port	Vlans allowed and active in management domain
Fa0/1	1

Port	Vlans in spanning tree forwarding state and not pruned
Fa0/1	1

Bước 3 : Cấu hình VTP cho các switch

Cấu hình gồm 3 bước :

- Xác định VTP Domain
- Xác định VTP Password
- Xác định vai trò của Switch (là server, client hay transparent)

Có thể kiểm tra cấu hình bằng 2 lệnh :

- `show vtp status`
 - Configuration Revision : Revision number
 - VTP Operating Mode : vai trò của Switch
 - VTP Domain Name : VTP Domain
 - MD5 Digest : VTP password đã bị mã hóa
- `show vtp password` : xem VTP password không mã hóa

```
SW1
SW1(config)#vtp domain newstar
SW1(config)#vtp password cisco
SW1(config)#vtp mode server

Kiểm tra:
SW1#show vtp status
VTP Version                : 2
Configuration Revision      : 0
Maximum VLANs supported locally : 255
Number of existing VLANs    : 5
VTP Operating Mode         : Server
VTP Domain Name            : newstar
VTP Pruning Mode           : Disabled
VTP V2 Mode                : Disabled
VTP Traps Generation       : Disabled
MD5 digest                 : 0x83 0xA8 0xC4 0x33 0x3C 0x94 0x28 0x0B
Configuration last modified by 0.0.0.0 at 0-0-00 00:00:00
Local updater ID is 0.0.0.0 (no valid interface found)

SW1#show vtp password
VTP Password: cisco
```

```
SW2
SW2(config)#vtp domain newstar
SW2(config)#vtp password cisco
SW2(config)#vtp mode server

Kiểm tra:
SW2#show vtp status
VTP Version                : 2
Configuration Revision      : 0
Maximum VLANs supported locally : 255
Number of existing VLANs    : 5
VTP Operating Mode         : Server
VTP Domain Name            : newstar
VTP Pruning Mode           : Disabled
VTP V2 Mode                : Disabled
VTP Traps Generation       : Disabled
```

```
MD5 digest                : 0x83 0xA8 0xC4 0x33 0x3C 0x94 0x28 0x0B
Configuration last modified by 0.0.0.0 at 0-0-00 00:00:00
Local updater ID is 0.0.0.0 (no valid interface found)
```

```
SW2#show vtp password
VTP Password: cisco
```

SW3

```
SW3(config)#vtp domain newstar
SW3(config)#vtp password cisco
SW3(config)#vtp mode transparent
```

Kiểm tra:

```
SW3#show vtp status
VTP Version                : 2
Configuration Revision      : 0
Maximum VLANs supported locally : 255
Number of existing VLANs    : 5
VTP Operating Mode         : Transparent
VTP Domain Name            : newstar
VTP Pruning Mode           : Disabled
VTP V2 Mode                : Disabled
VTP Traps Generation       : Disabled
MD5 digest                 : 0x83 0xA8 0xC4 0x33 0x3C 0x94 0x28 0x0B
Configuration last modified by 0.0.0.0 at 0-0-00 00:00:00
```

```
SW3#show vtp password
VTP Password: cisco
```

SW4

```
SW4(config)#vtp domain newstar
SW4(config)#vtp password cisco
SW4(config)#vtp mode client
```

Kiểm tra:

```
SW4#show vtp status
VTP Version                : 2
Configuration Revision      : 0
Maximum VLANs supported locally : 255
Number of existing VLANs    : 5
VTP Operating Mode         : Client
VTP Domain Name            : newstar
VTP Pruning Mode           : Disabled
VTP V2 Mode                : Disabled
VTP Traps Generation       : Disabled
MD5 digest                 : 0x83 0xA8 0xC4 0x33 0x3C 0x94 0x28 0x0B
Configuration last modified by 0.0.0.0 at 0-0-00 00:00:00
```

```
SW4#show vtp password
VTP Password: cisco
```

SW5

```
SW5(config)#vtp domain newstar
SW5(config)#vtp password cisco
SW5(config)#vtp mode client
```

Kiểm tra:

```
SW5#show vtp status
```

```

VTP Version : 2
Configuration Revision : 0
Maximum VLANs supported locally : 255
Number of existing VLANs : 5
VTP Operating Mode : Client
VTP Domain Name : newstar
VTP Pruning Mode : Disabled
VTP V2 Mode : Disabled
VTP Traps Generation : Disabled
MD5 digest : 0x83 0xA8 0xC4 0x33 0x3C 0x94 0x28 0x0B
Configuration last modified by 0.0.0.0 at 0-0-00 00:00:00

SW5#show vtp password
VTP Password: cisco

```

SW6

```

SW6(config)#vtp domain newstar
SW6(config)#vtp password cisco
SW6(config)#vtp mode client

Kiểm tra:
SW6#show vtp status
VTP Version : 2
Configuration Revision : 0
Maximum VLANs supported locally : 255
Number of existing VLANs : 5
VTP Operating Mode : Client
VTP Domain Name : newstar
VTP Pruning Mode : Disabled
VTP V2 Mode : Disabled
VTP Traps Generation : Disabled
MD5 digest : 0x83 0xA8 0xC4 0x33 0x3C 0x94 0x28 0x0B
Configuration last modified by 0.0.0.0 at 0-0-00 00:00:00

SW6#show vtp password
VTP Password: cisco

```

SW7

```

SW7(config)#vtp domain newstar
SW7(config)#vtp password newstar
SW7(config)#vtp mode client

Kiểm tra
SW7#show vtp status
VTP Version : 2
Configuration Revision : 0
Maximum VLANs supported locally : 255
Number of existing VLANs : 5
VTP Operating Mode : Client
VTP Domain Name : newstar
VTP Pruning Mode : Disabled
VTP V2 Mode : Disabled
VTP Traps Generation : Disabled
MD5 digest : 0xA4 0xC8 0x48 0x9F 0x87 0x33 0xE0 0x22

SW7#show vtp password
VTP Password: newstar

```

Bước 4 : Tạo VLAN trên SW1 (VTP Server) và quan sát sự thay đổi trên các switch còn lại

SW1		
SW1(config)# vlan 10 SW1(config-vlan)# exit SW1(config)# vlan 20 SW1(config-vlan)# exit		
Kiểm tra: SW1# show vlan brief		
VLAN	Name	Ports
1	default	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	VLAN0010	active
20	VLAN0020	active
1002	fddi-default	active
1003	token-ring-default	active
1004	fddinet-default	active
1005	trnet-default	active

SW2		
SW2# show vlan brief		
VLAN	Name	Ports
1	default	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	VLAN0010	active
20	VLAN0020	active
1002	fddi-default	active
1003	token-ring-default	active
1004	fddinet-default	active
1005	trnet-default	active

SW3		
SW3# show vlan brief		
VLAN	Name	Ports
1	default	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
--------------------	--------

SW4		
SW4#show vlan brief		
VLAN	Name	Ports
1	default	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	VLAN0010	active
20	VLAN0020	active
1002	fddi-default	active
1003	token-ring-default	active
1004	fddinet-default	active
1005	trnet-default	active

SW5		
SW5#show vlan brief		
VLAN	Name	Ports
1	default	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	VLAN0010	active
20	VLAN0020	active
1002	fddi-default	active
1003	token-ring-default	active
1004	fddinet-default	active
1005	trnet-default	active

SW6		
SW6#show vlan brief		
VLAN	Name	Ports
1	default	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	VLAN0010	active
20	VLAN0020	active
1002	fddi-default	active
1003	token-ring-default	active
1004	fddinet-default	active
1005	trnet-default	active

SW7			
SW7#show 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
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

Từ các output trên, có thể thấy :

- SW2 có VLAN 10 và VLAN 20, chứng tỏ VTP Server đồng bộ thông tin VLAN từ gói tin VTA.
- SW3 không có VLAN 10 và 20, chứng tỏ VTP Transparent không đồng bộ thông tin VLAN từ VTA.
- SW4 có VLAN 10 và 20, chứng tỏ
 - VTP Transparent (là SW3) trung chuyển VTA
 - VTP Client đồng bộ thông tin VLAN từ VTA
- SW5 có VLAN 10 và 20, chứng tỏ
 - VTP Server (là SW2) trung chuyển VTA
 - VTP Client đồng bộ thông tin VLAN từ VTA
- SW6 có VLAN 10 và 20, chứng tỏ
 - VTP Client (là SW5) trung chuyển VTA
 - VTP Client đồng bộ thông tin VLAN từ VTA
- SW7 không có VLAN 10 và 20, chứng tỏ
 - VTP password giữa SW2 và SW7 không khớp, nên SW2 không gửi VTA cho SW7

Bước 5: Tạo vlan trên SW3 (VTP Transparent) và quan sát sự thay đổi trên các switch còn lại

SW3			
SW3(config)#vlan 30			
SW3(config-vlan)#exit			
Kiểm tra			
SW3#show vlan brief			
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, Gig0/1, Gig0/2
30	VLAN0030	active	
1002	fddi-default	active	
1003	token-ring-default	active	

1004 fddinet-default	active
1005 trnet-default	active

SW1		
SW1#show vlan brief		
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, Gig0/1, Gig0/2
10 VLAN0010	active	
20 VLAN0020	active	
1002 fddi-default	active	
1003 token-ring-default	active	
1004 fddinet-default	active	
1005 trnet-default	active	

SW2		
SW2#show vlan brief		
VLAN Name	Status	Ports
1 default	active	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 VLAN0010	active	
20 VLAN0020	active	
1002 fddi-default	active	
1003 token-ring-default	active	
1004 fddinet-default	active	
1005 trnet-default	active	

SW4		
SW4#show 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 VLAN0010	active	
20 VLAN0020	active	
1002 fddi-default	active	
1003 token-ring-default	active	
1004 fddinet-default	active	
1005 trnet-default	active	

SW5		
SW5#show vlan brief		
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, Gig0/1, Gig0/2
10 VLAN0010	active	
20 VLAN0020	active	
1002 fddi-default	active	
1003 token-ring-default	active	
1004 fddinet-default	active	
1005 trnet-default	active	

SW6		
SW6#show 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 VLAN0010	active	
20 VLAN0020	active	
1002 fddi-default	active	
1003 token-ring-default	active	
1004 fddinet-default	active	
1005 trnet-default	active	

Từ các output, có thể thấy :

- Các switch còn lại không hề có VLAN 30, chứng tỏ VTP Transparent không đồng bộ thông tin VLAN cho các switch khác.

Bước 6 : Tạo vlan trên SW4 (VTP Client) và quan sát sự thay đổi

SW4
SW4(config)#vlan 40
VTP VLAN configuration not allowed when device is in CLIENT mode.

Log cho thấy SW4 không được phép tạo VLAN khi đang là VTP CLIENT.

Kiểm tra:

SW4
SW4#show vlan brief
VLAN Name

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	VLAN0010	active	
20	VLAN0020	active	
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

Output không hề có VLAN 40.

Bước 7: xóa vlan 10 trên SW2 (VTP Server) và quan sát sự thay đổi trên các switch còn lại

SW2			
SW2(config)#no vlan 10			
Kiểm tra:			
SW2#show vlan brief			
VLAN	Name	Status	Ports
1	default	active	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
20	VLAN0020	active	
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

SW1			
SW1#show vlan brief			
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, Gig0/1, Gig0/2
20	VLAN0020	active	
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	
SW1#show vtp status			
VTP Version		:	2
Configuration Revision		:	5

```

Maximum VLANs supported locally : 255
Number of existing VLANs       : 6
VTP Operating Mode              : Server
VTP Domain Name                 : newstar
VTP Pruning Mode                : Disabled
VTP V2 Mode                     : Disabled
VTP Traps Generation            : Disabled
MD5 digest                      : 0x43 0xEC 0xAB 0xCA 0x2B 0x03 0x4A 0xDE
Configuration last modified by 0.0.0.0 at 3-1-93 01:03:49
Local updater ID is 0.0.0.0 (no valid interface found)

```

SW3

SW2#show vlan brief

VLAN	Name	Status	Ports
1	default	active	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
40	VLAN0040	active	
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

SW3#show vtp status

```

VTP Version           : 2
Configuration Revision : 0
Maximum VLANs supported locally : 255
Number of existing VLANs : 6
VTP Operating Mode    : Transparent
VTP Domain Name       : newstar
VTP Pruning Mode      : Disabled
VTP V2 Mode           : Disabled
VTP Traps Generation  : Disabled
MD5 digest             : 0x83 0xA8 0xC4 0x33 0x3C 0x94 0x28 0x0B
Configuration last modified by 0.0.0.0 at 3-1-93 01:03:49
Local updater ID is 0.0.0.0 (no valid interface found)

```

SW4

SW4#show 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
20	VLAN0020	active	
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

```

SW4#show vtp status
VTP Version                : 2
Configuration Revision      : 5
Maximum VLANs supported locally : 255
Number of existing VLANs    : 6
VTP Operating Mode         : Client
VTP Domain Name            : newstar
VTP Pruning Mode           : Disabled
VTP V2 Mode                : Disabled
VTP Traps Generation       : Disabled
MD5 digest                 : 0x43 0xEC 0xAB 0xCA 0x2B 0x03 0x4A 0xDE
Configuration last modified by 0.0.0.0 at 3-1-93 01:03:49

```

SW5

```
SW5#show vlan brief
```

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, Gig0/1, Gig0/2
20 VLAN0020	active	
1002 fddi-default	active	
1003 token-ring-default	active	
1004 fddinet-default	active	
1005 trnet-default	active	

```
SW5#show vtp status
```

```

VTP Version                : 2
Configuration Revision      : 5
Maximum VLANs supported locally : 255
Number of existing VLANs    : 6
VTP Operating Mode         : Client
VTP Domain Name            : newstar
VTP Pruning Mode           : Disabled
VTP V2 Mode                : Disabled
VTP Traps Generation       : Disabled
MD5 digest                 : 0x43 0xEC 0xAB 0xCA 0x2B 0x03 0x4A 0xDE
Configuration last modified by 0.0.0.0 at 3-1-93 01:03:49

```

SW6

```
SW6#show 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
20 VLAN0020	active	
1002 fddi-default	active	
1003 token-ring-default	active	
1004 fddinet-default	active	
1005 trnet-default	active	

```
SW6#show vtp status
VTP Version                : 2
Configuration Revision      : 5
Maximum VLANs supported locally : 255
Number of existing VLANs    : 6
VTP Operating Mode         : Client
VTP Domain Name            : newstar
VTP Pruning Mode           : Disabled
VTP V2 Mode                : Disabled
VTP Traps Generation       : Disabled
MD5 digest                 : 0x43 0xEC 0xAB 0xCA 0x2B 0x03 0x4A 0xDE
Configuration last modified by 0.0.0.0 at 3-1-93 01:03:49
```

Từ các output có thể thấy :

- Số revision tăng lên
- VLAN 20 đã được xóa khỏi tất cả các switch (trừ SW3 là VTP Transparent)

Kết luận

	VTP Server	VTP Client	VTP Transparent
Khả năng tạo/sửa/xóa VLAN	✓		✓ (chỉ local)
Đồng bộ thông tin VLAN	✓	✓	
Chuyển tiếp VTA	✓	✓	✓