

CCNA LAB 2-2: Virtual Trunking Protocol (VTP)

[ตั้งค่าที่ Ranet SW1 (คลิกที่เครื่อง console)] :

(ไปยังแท็บ Desktop > คลิก Terminal > กด OK)

```
Ranet-SW1>sh vtp status
VTP Version          : 2
Configuration Revision : 1
Maximum VLANs supported locally : 255
Number of existing VLANs : 7
VTP Operating Mode   : Server
VTP Domain Name     : Ranet
VTP Pruning Mode    : Disabled
VTP V2 Mode         : Enabled
VTP Traps Generation : Disabled
MD5 digest          : 0x30 0x94 0xC2 0x6A 0x32 0xCF 0x82 0xFF
Configuration last modified by 0.0.0.0 at 3-1-93 00:41:24
Local updater ID is 0.0.0.0 (no valid interface found)
```

```
Ranet-SW1>sh 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, Gig1/1, Gig1/2
10 Ranet-01	active	Fa0/1
20 Ranet-02	active	Fa0/2
1002 fddi-default	act/unsup	
1003 token-ring-default	act/unsup	
1004 fddinet-default	act/unsup	

```

1005 trnet-default          act/unsup

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
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

```

Remote SPAN VLANs

Primary Secondary Type Ports

Ranet-SW1>

[ตั้งค่าที่ Ranet SW2 (คลิกที่เครื่อง console)] :

(ไปยังแท็บ Desktop > คลิก Terminal > กด OK)

```

Ranet-SW2>en
Ranet-SW2#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Ranet-SW2(config)#vtp mode transparent
Setting device to VTP TRANSPARENT mode.
Ranet-SW2(config)#vtp domain Ranet
Changing VTP domain name from NULL to Ranet
Ranet-SW2(config)#vtp version 2
Ranet-SW2(config)#int gig1/1
Ranet-SW2(config-if)#switchport mode trunk

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet1/1, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet1/1, changed state to up
Ranet-SW2(config-if)#

```

Ranet-SW2#

%SYS-5-CONFIG_I: Configured from console by console

Ranet-SW2#sh vtp status

VTP Version : 2

Configuration Revision : 0

Maximum VLANs supported locally : 255

Number of existing VLANs : 7

VTP Operating Mode : Transparent

VTP Domain Name : Ranet

VTP Pruning Mode : Disabled

VTP V2 Mode : Enabled

VTP Traps Generation : Disabled

MD5 digest : 0x39 0x70 0x66 0x32 0x4F 0x8F 0x84 0x33

Configuration last modified by 0.0.0.0 at 3-1-93 00:14:20

Ranet-SW2#sh 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, Gig1/2
30 Ranet-03	active	Fa0/1
40 Ranet-04	active	Fa0/2
1002 fddi-default	act/unsup	
1003 token-ring-default	act/unsup	
1004 fddinet-default	act/unsup	
1005 trnet-default	act/unsup	

VLAN Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	Trans1	Trans2
1	enet 100001	1500	-	-	-	-	-	0	0
30	enet 100030	1500	-	-	-	-	-	0	0
40	enet 100040	1500	-	-	-	-	-	0	0
1002	fddi 101002	1500	-	-	-	-	-	0	0

```
Ranet-SW2#sh interfaces trunk
```

```
Port    Mode      Encapsulation  Status  Native vlan
Gig1/1  on       802.1q        trunking  1
```

```
Port    Vlans allowed on trunk
```

```
Gig1/1  1-1005
```

```
Port    Vlans allowed and active in management domain
```

```
Gig1/1  1,30,40
```

```
Port    Vlans in spanning tree forwarding state and not pruned
```

```
Gig1/1  none
```

```
Ranet-SW2#copy run start
```

```
Destination filename [startup-config]?
```

```
Building configuration...
```

```
[OK]
```

```
Ranet-SW2#
```

[ตั้งค่าที่ Ranet SW3 (คลิกที่เครื่อง console)] :

(ไปยังแท็บ Desktop > คลิก Terminal > กด OK)

```
Ranet-SW3>en
```

```
Ranet-SW3#conf t
```

```
Enter configuration commands, one per line. End with CNTL/Z.
```

```
Ranet-SW3(config)#vtp mode transparent
```

```
Setting device to VTP TRANSPARENT mode.
```

```
Ranet-SW3(config)#vtp domain Ranet
```

```
Changing VTP domain name from NULL to Ranet
```

```
Ranet-SW3(config)#vtp mode client
```

```
Setting device to VTP CLIENT mode.
```

```
Ranet-SW3(config)#int gig1/1
```

```
Ranet-SW3(config-if)#switchport mode trunk
```

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet1/1, changed state to down
```

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet1/1, changed state to up
```

```
Ranet-SW3(config-if)#
```

Ranet-SW3#

%SYS-5-CONFIG_I: Configured from console by console

Ranet-SW3#sh vtp status

VTP Version : 2

Configuration Revision : 1

Maximum VLANs supported locally : 255

Number of existing VLANs : 7

VTP Operating Mode : Client

VTP Domain Name : Ranet

VTP Pruning Mode : Disabled

VTP V2 Mode : Enabled

VTP Traps Generation : Disabled

MD5 digest : 0x30 0x94 0xC2 0x6A 0x32 0xCF 0x82 0xFF

Configuration last modified by 0.0.0.0 at 3-1-93 00:41:24

Ranet-SW3#sh vlan

VLAN Name	Status	Ports
1 default	active	Fa0/1, 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 Gig1/2
10 Ranet-01	active	
20 Ranet-02	active	
1002 fddi-default	act/unsup	
1003 token-ring-default	act/unsup	
1004 fddinet-default	act/unsup	
1005 trnet-default	act/unsup	

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

```
Ranet-SW3#conf t
```

Enter configuration commands, one per line. End with CNTL/Z.

```
Ranet-SW3(config)#int fa0/1
```

```
Ranet-SW3(config-if)#switchport mode access
```

```
Ranet-SW3(config-if)#switchport access vlan 10
```

```
Ranet-SW3(config-if)#int fa0/2
```

```
Ranet-SW3(config-if)#switchport mode access
```

```
Ranet-SW3(config-if)#switchport access vlan 20
```

```
Ranet-SW3(config-if)#
```

```
Ranet-SW3#
```

```
%SYS-5-CONFIG_I: Configured from console by console
```

```
Ranet-SW3#sh 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, Gig1/2

10 Ranet-01	active	Fa0/1
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20 Ranet-02	active	Fa0/2
-------------	--------	-------

1002 fddi-default	act/unsup	
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1003 token-ring-default	act/unsup	
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1004 fddinet-default	act/unsup	
----------------------	-----------	--

1005 trnet-default	act/unsup	
--------------------	-----------	--

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
1002 fddi	101002	1500	-	-	-	-	-	0	0

```
Ranet-SW3#copy run start
```

Destination filename [startup-config]?

Building configuration...

[OK]

Ranet-SW3#

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