

VTP Pruning



“A VTP feature used to eliminate or prune this unnecessary traffic to save Network BW”

- ✓ By default, VTP pruning is disabled
- ✓ In VTP v1 & v2, when we Enable or Disable VTP pruning, it is propagated to the entire domain and accepted by all the devices in that domain. In VTP version 3, the domain administrator must manually Enable or Disable VTP pruning explicitly on each device
- ✓ Enabling VTP pruning on a VTP server enables pruning for the entire management domain.
- ✓ VLAN 1 is always pruning ineligible (means traffic from VLAN 1 cannot be pruned)
- ✓ By default, VLANs 2 through 1000 are pruning eligible

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VTP Message Types

Advertisement Requests	VTP message generated by VTP clients to request VLAN information from VTP Server
Summary Advertisements	VTP message containing Summarised VLAN information. This is sent out every 300sec by default or when a configuration change occurs
Subset Advertisements	VTP message sent when a configuration change occurs on the server switch
VTP Join Message	A message sent when the VTP Client first joins a VTP domain, informing the VTP Server(s) about the new client

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VTP Modes

	VTP Server	VTP Client	VTP Transparent	OFF
Create/Modify/Delete VLANs	Yes	No	Yes (but local only)	Yes
Source VTP Messages	Yes	Yes	No	No
Listen to VTP Messages	Yes	Yes	No	-
Forward VTP Messages	Yes	Yes	Yes	No
Synchronizes itself	Yes	Yes	No	-
Forwards advertisements	Yes	Yes	Yes	-

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VTP Configuration Example on Cisco

Task: Configure VTP on all four Switches (SW1-SW4) with below detail:

VTP Version: 2, VTP Domain Name: NETWORKWALKS, VTP Password: nw123
VTP mode: SW3=Server, SW1/SW2/SW4=Client

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Solution:

On SW1/SW2/SW4:

```
SW(config)# vtp version 2 ....Configure VTP version 2
SW(config)# vtp mode server
SW(config)# vtp domain NETWORKWALKS ....VTP Domain Name
SW(config)# vtp password nw123
```

On SW3:

```
SW3(config)# vtp version 2
SW3(config)# vtp mode server
SW3(config)# vtp domain NETWORKWALKS
SW3(config)# vtp password nw123
```

Verifications:

```
SW# show vtp status
SW# show vtp counters
```

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