

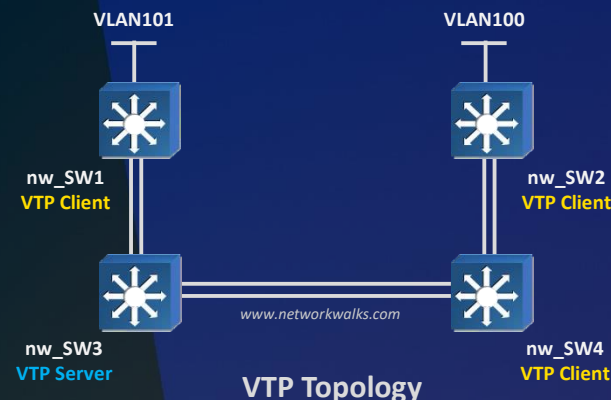


## What is VTP?

“VTP is a Cisco Proprietary Layer-2 Protocol for easy & centralised Management of VLANs”

## Key Attributes

<b>Protocol Type:</b>	Layer2 Protocol
<b>Standard:</b>	Cisco Proprietary (Competitive Open Standards: GVRP, MVRP)
<b>Purpose:</b>	Centralized VLAN Database
<b>Link Types Supported:</b>	Cisco ISL, 802.1Q, IEEE 802.10 and LANE trunks
<b>Versions:</b>	3 (v1, v2, v3) – Default=v1



## VTP Domain



“A set of interconnected switches under the same administrative responsibility sharing the same VTP Domain Name”

- ✓ A switch can belong to only one VTP Domain
- ✓ VLAN configuration changes for a domain are always at Global level
- ✓ By default, a switch is in the VTP *no-management-domain* state until it receives an advertisement for a domain over a trunk link or until we configure a Domain Name
- ✓ We cannot create or modify VLANs on a VTP Server until a management domain name is specified or learned
- ✓ Before adding a new VTP client switch to a VTP domain, always verify that its VTP configuration revision number is lower than the configuration revision number of the other switches in the VTP domain

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## VTP Config Revision Number

“A 32-bit number that indicates the level of revision for a VTP Frame”

- ✓ Length: 32-bit Number
- ✓ Range: 0-4.2B (increments by 1)
- ✓ Each VTP device tracks its own VTP configuration revision number
- ✓ A switch always ignores advertisements that have a different VTP domain name or an earlier configuration revision number

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## VTP Versions

	VTP v1	VTP v2	VTP v3
<b>Supported Modes</b>	Server, Client, Transparent	Server, Client, Transparent	Server, Client, Transparent, OFF
<b>Authentication Types Supported</b>	Clear Text Password	Clear Text Password	Encrypted Password
<b>Supported VLAN ID Range</b>	1-1001 for Server/Client 1-4094 for Transparent	1-1001 for Server/Client 1-4094 for Transparent	1-4094 for Transparent
<b>Private VLANs</b>	Not Supported	Not Supported	Supported
<b>Extended VLANs (1006-4094)</b>	Not Supported	Not Supported	Supported
<b>VLAN update mechanism</b>	Revision Number	Primary Server	Primary Server
<b>VLAN storage DB</b>	vlan.dat file	vlan.dat file	vlan.dat file

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