How to configure VTP on a dual-core switch

Article Overview

To configure VTP on a dual-core switch, set the VTP mode, domain name, password, version, and ensure trunk links are active between switches to propagate VLAN information.

Step 1: Access the Switch

Connect to your switch via console, SSH, or Telnet and enter privileged EXEC mode by typing:

CodeCopyenable

Step 2: Enter Global Configuration Mode

CodeCopyconfigure terminal

Step 3: Configure VTP Domain Name

All switches in the same VTP domain must share the same domain name:

CodeCopyvtp domain
For example:

CodeCopyvtp domain cisco

Step 4: Set VTP Mode

Choose the appropriate mode for each switch:

o Server: Can create, modify, and delete VLANs; propagates changes to clients.
o Client: Receives VLAN information from servers; cannot create VLANs.
o Transparent: Forwards VTP messages but does not participate in VLAN database synchronization.

CodeCopyvtp mode servervtp mode clientvtp mode transparent
The default mode is server.

Step 5: Configure VTP Password (Optional but Recommended)

Set a password to authenticate VTP messages across the domain:

CodeCopyvtp password

Example:

CodeCopyvtp password abc123

Step 6: Specify VTP Version

Ensure all switches use the same VTP version (1, 2, or 3):

CodeCopyvtp version 2

Step 7: Enable Trunking on Inter-Switch Links

VTP messages propagate only over trunk links. Configure trunk ports:

CodeCopyinterface switchport mode trunk
Example:

CodeCopyinterface GigabitEthernet0/1switchport mode trunk

Step 8: Verify VTP Configuration

Check the VTP status and ensure VLANs are synchronized:

CodeCopyshow vtp statusshow vlan brief
These commands display the VTP mode, domain, version, password, and VLAN information.

Step 9: Test VLAN Propagation

Create a VLAN on a VTP server switch:

CodeCopyvlan 10name Sales
Then verify that the VLAN appears on VTP client switches using:

CodeCopyshow vlan brief

Best Practices

o Ensure all switches in the domain have the same VTP version and password.
o Avoid misconfigurations that could propagate VLAN deletions across the network.
o Use VTP transparent mode for switches where local VLAN changes should not affect the domain.
o Always configure trunk links between switches to allow VTP messages to pass. By following these steps, your dual-core switches will share VLAN information efficiently, reducing manual configuration and ensuring consistent VLAN deployment across the network .

In this lesson, we will focus on How to Configure VTP on Cisco switches with Packet Tracer. For VLAN Trunking Protocol, Cisco VTP

A VTP transparent network device does not advertise its VLAN configuration and does not synchronize its VLAN

VTP automates VLAN propagation across switches--but a single switch with a high revision number can wipe all

This article describes the theory and operation of VTP (the Virtual Trunking Protocol) and how to configure it on a Cisco switch.

Background Information VTP reduces administration in a switched network. When you configure a new VLAN on one VTP server, the

Before configuring VTP (VLAN Trunking Protocol) on a Cisco switch, ensure you meet several prerequisites to guarantee a smooth

When VTP mode is transparent, the VTP domain name and mode are also saved in the device running configuration

This tutorial explains VTP Server configuration steps. Learn how to configure a VTP Server in Server, Transparent,

In this post, I will show you how to Configure VTP in Cisco Switch in packet tracer using a sample network topology.

In this article I describe how to configure VLAN Trunking Protocol VTP in networking. VLAN Trunking Protocol VTP

With proper VTP configuration, you can create and delete VLANs on a switch, and they will automatically

propagate to all switches in

Pruning saves LAN bandwidth because broadcasts don"t have to be sent to switches that don"t need them. How do you

Prerequisites for VTP Before you create VLANs, you must decide whether to use the VLAN Trunking Protocol (VTP) in your network.

VTP Advertisements Each device in the VTP domain sends periodic global configuration advertisements from each

This document describes how to configure a new VLAN on one VTP server and distribute it through all switches on the

VTP (VLAN Trunking Protocol) is used to exchange VLAN information between Cisco Catalyst Switches. I will show you how to

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