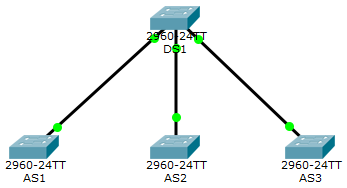
Packet Tracer - Troubleshoot VTP and DTP

1. Topology



Objectives

Troubleshoot the operation of VTP and DTP in a switched network.

1. Background / Scenario

In this activity, you will troubleshoot a switched environment where trunks are negotiated and formed via DTP, and VLAN information is propagated automatically through a VTP domain. You have limited access to the access switches AS1, AS2, and AS3, but are able to make configuration changes on DS1. You must troubleshoot and correct the problem(s) to make sure that AS1, AS2 and AS3 have VLANs 100, 200, 300 and 400 in their VLAN database.

The VTP domain settings are:

VTP domain server: **DS1**

VTP domain: **CCNA-PT**

VTP password: **123PT**

1. Troubleshooting the Network
   1. DTP

VTP relies on trunk links to operate. If trunks are not formed between the access switches and distribution switch DS1, VTP will not operate properly. DTP port modes dictate whether a switchport initiates trunk negotiation.

* + 1. Verify that the trunk links are formed between the DS1 and the access layer switches. Correct as necessary.
    2. If there are no trunk links between DS1 and the access layer switches, correct the problem. Document the solution.

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* 1. VTP

Troubleshoot VTP. When you are certain that DTP is properly configured, move on to VTP. VTP is responsible for carrying VLAN information throughout the VTP domain, from the VTP server to the VTP clients.

* + 1. Verify that the VTP domain names and passwords are configured correctly on all switches. Correct as necessary.

**Note**: VTP domain names are case-sensitive. If used, a VTP password must be the same throughout the domain.

* + 1. Verify that all issues have been fixed. Confirm the presence of VLANs 100, 200, 300 and 400 on all access switches.
    2. Document your solution.

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