Exam Lab 4: VLAN Configuration Final Exam

Objective

The objective of this project is to examine the student’s ability to configure VLANs using the VLAN Trunking Protocol (VTP). VTP domain and passwords are up to the student. This network setup uses four switches, with no redundant links. The network topology for this lab is provided in Figure 1. The specific IP addresses are up to the student; however, they must be configured for operation in the specified networks.

Figure 1  Network Topology for This Lab
Specifics

- VLAN 10, Office: PC1, S2
- VLAN 20, Finance: PC2, S1
- Network: 192.168.10.0/24, 192.168.20.0/24
  Disabled redundant ports:
- SW1(fa0/1), SW2(fa0/1), SW3(fa0/1), SW4(fa0/1)

VTP:
- VTP Server: SW1
- VTP Transparent: SW4
- VTP Clients: SW2, SW3

Required

The following is a summary of the required tasks that are to be completed in this exercise:

1. Configure the network according to the specifications listed.
2. Disable the interfaces on any redundant links.
3. Configure the VTP server, clients, and transparent switch.
4. Add the VLANs to the VTP server, verifying that they propagate the clients.
5. Manually configure the transparent switch.
6. Add the appropriate interfaces for the computers to the VLANs and set their IPs.
7. Test your network carefully, and then save your configuration. You will be asked to demonstrate your network to your instructor.