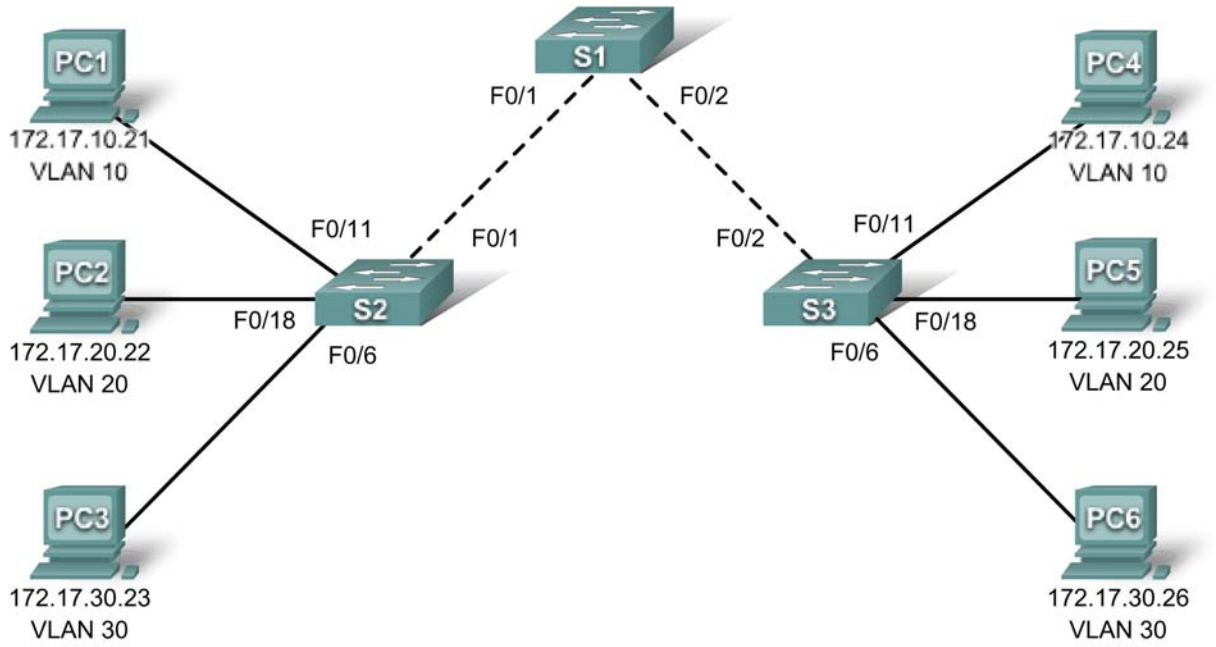
# PT Activity 4.4.3: Troubleshooting the VTP Configuration

## Topology Diagram




## Addressing Table

| Device | Interface | IP Address | Subnet Mask |
|---|---|---|---|
| **S1** | **VLAN 99** | 172.17.99.11 | 255.255.255.0 |
| **S2** | **VLAN 99** | 172.17.99.12 | 255.255.255.0 |
| **S3** | **VLAN 99** | 172.17.99.13 | 255.255.255.0 |
| **PC1** | **NIC** | 172.17.10.21 | 255.255.255.0 |
| **PC2** | **NIC** | 172.17.20.22 | 255.255.255.0 |
| **PC3** | **NIC** | 172.17.30.23 | 255.255.255.0 |
| **PC4** | **NIC** | 172.17.10.24 | 255.255.255.0 |
| **PC5** | **NIC** | 172.17.20.25 | 255.255.255.0 |
| **PC6** | **NIC** | 172.17.30.26 | 255.255.255.0 |

## Port Assignments (S2 and S3)

| Ports | Assignment | Network |
|---|---|---|
| **Fa0/1 - 0/5** | 802.1q Trunks (Native VLAN 99) | 172.17.99.0 /24 |
| **Fa0/6 - 0/10** | VLAN 30 - Guest (Default) | 172.17.30.0 /24 |
| **Fa0/11 - 0/17** | VLAN 10 - Faculty/Staff | 172.17.10.0 /24 |
| **Fa0/18 - 0/24** | VLAN 20 – Students | 172.17.20.0 /24 |

## Learning Objectives

- Find and correct all configuration errors.
- Document the corrected network.

## Introduction

The VLAN Trunking Protocol (VTP) helps ensure uniform VLAN configurations on your switched network, but it must be configured correctly. In this activity, the VTP domain name is **Lab4_3**, and the VTP password is **cisco**. However, there are a number of errors in this configuration that you must troubleshoot and correct before end-to-end connectivity within the VLAN is restored. You will have successfully resolved all errors when the same VLANs are configured on all three switches, and you can ping between any two hosts in the same VLAN or between any two switches.

### Task 1: Troubleshoot and Correct VTP and Configuration Errors

When all errors are corrected, you should be able to ping PC4 from PC1, PC5 from PC2, and PC6 from PC3. You should also be able to ping the management interfaces on both S2 and S3 from S1. Use **cisco** for the user EXEC password and **class** for the privileged EXEC password.

### Task 2: Document the Switch Configuration

When you have completed your troubleshooting, capture the output of the **show run** command and save it to a text document for each switch.

Your completion should be 100%. If not, troubleshoot to correct any errors.