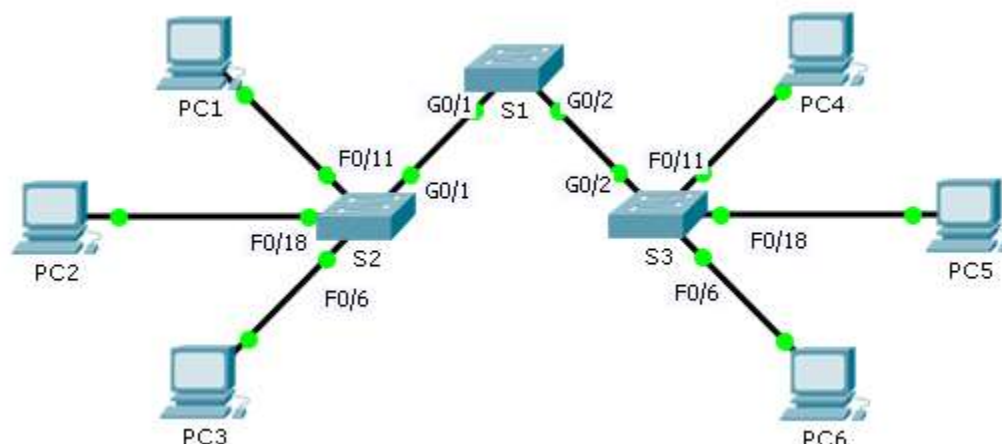


# Packet Tracer – Troubleshooting a VLAN Implementation Scenario 2

## Topology



## Addressing Table

Device	Interface	IPv4 Address	Subnet Mask	Default Gateway
S1	VLAN 56	192.168.56.11	255.255.255.0	N/A
S2	VLAN 56	192.168.56.12	255.255.255.0	N/A
S3	VLAN 56	192.168.56.13	255.255.255.0	N/A
PC1	NIC	192.168.10.21	255.255.255.0	192.168.10.1
PC2	NIC	192.168.20.22	255.255.255.0	192.168.20.1
PC3	NIC	192.168.30.23	255.255.255.0	192.168.30.1
PC4	NIC	192.168.10.24	255.255.255.0	192.168.10.1
PC5	NIC	192.168.20.25	255.255.255.0	192.168.20.1
PC6	NIC	192.168.30.26	255.255.255.0	192.168.30.1

## VLAN and Port Assignments

Ports	VLAN Number - Name	Network
F0/1 – F0/5	VLAN 56 – Management&Native	192.168.56.0/24
F0/6 – F0/10	VLAN 30 – Guest(Default)	192.168.30.0/24
F0/11 – F0/17	VLAN 10 – Faculty/Staff	192.168.10.0/24
F0/18 – F0/24	VLAN 20 – Students	192.168.20.0/24

## Objectives

**Part 1: Find and Correct the Network Errors**

**Part 2: Document the Corrections to the Network**

**Part 3: Implement Solutions and Test Connectivity**

## Background

In this activity, you will troubleshoot a misconfigured VLAN environment. The initial network has errors. Your objective is to locate and correct the errors in the configurations and establish end-to-end connectivity. Your final configuration should match the Topology diagram and Addressing Table. The native VLAN for this topology is VLAN 56.

## Part 1: Discover and Document Issues in the Network

Use the Topology, Addressing Table, VLAN and Port Assignments table and your knowledge of VLANs and trunking to discover issues in the network. Complete the **Documentation** table listing the problems you discovered and potential solutions.

### Documentation

Problems	Solutions

## Part 2: Implement the Solution and Test Connectivity

Verify PCs on the same VLAN can now ping each other. If not, continue to troubleshoot.

## Suggested Scoring Rubric

Packet Tracer scores 70 points. Documentation in Part 2, Step 3 is worth 30 points.