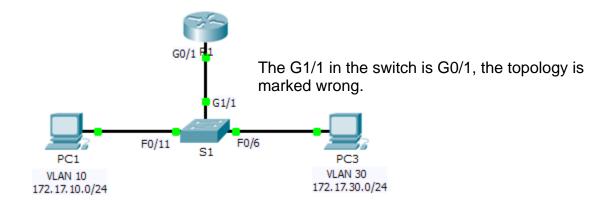


# Packet Tracer - Troubleshooting Inter-VLAN Routing

## **Topology**



### **Addressing Table**

Device	Interface	IP Address	Subnet Mask	Default Gateway	VLAN
R1	G0/1.10	172.17.10.1	255.255.255.0	N/A	VLAN 10
	G0/1.30	172.17.30.1	255.255.255.0	N/A	VLAN 30
PC1	NIC	172.17.10.10	255.255.255.0	172.17.10.1	VLAN 10
PC3	NIC	172.17.30.10	255.255.255.0	172.17.30.1	VLAN 30

## **Objectives**

**Part 1: Locate Network Problems** 

Part 2: Implement the Solution

Part 3: Verify Network Connectivity

#### **Scenario**

In this activity, you will troubleshoot connectivity problems caused by improper configurations related to VLANs and inter-VLAN routing.

#### Part 1: Locate the Network Problems

Examine the network and locate the source of any connectivity issues.

- Test connectivity and use the necessary show commands on to verify configurations.
- List all of the problems and possible solutions in the Documentation Table.

#### **Documentation Table**

Problems	Solutions

# Part 2: Implement the Solutions

Make changes according to your recommended solutions.

# Part 3: Verify Network Connectivity

Verify the PCs can ping other PCs and R1. If not, continue to troubleshoot until the pings are successful.

## **Suggested Scoring Rubric**

Packet Tracer scores 60 points. Completing the **Documentation Table** is worth 40 points.