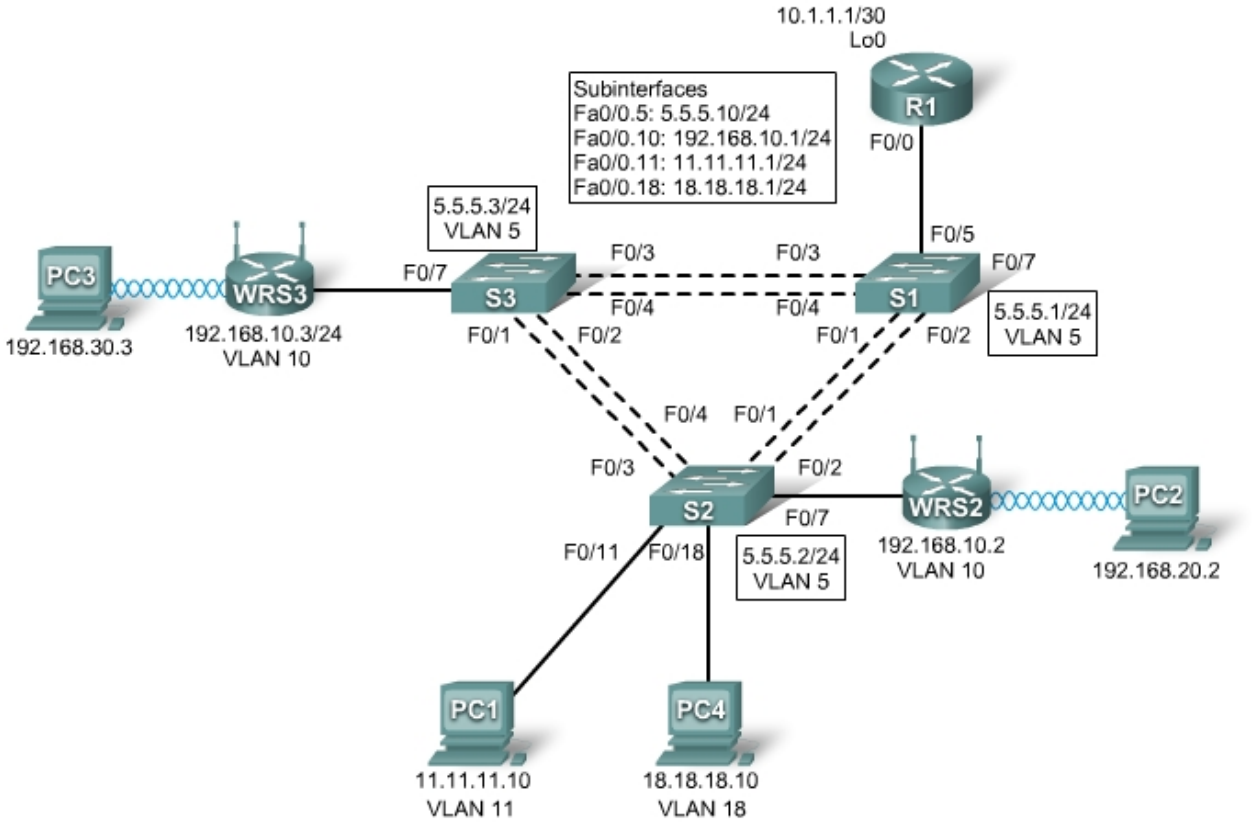
PT Activity 7.5.3: Troubleshooting Wireless WRT300N

Topology Diagram



Addressing Table

Device	Interface	IP Address	Subnet Mask	Default Gateway
R1	**Fa0/0.5**	5.5.5.10	255.255.255.0	N/A
	Fa0/0.10	192.168.10.1	255.255.255.0	N/A
	Fa0/0.11	11.11.11.1	255.255.255.0	N/A
	Fa0/0.18	18.18.18.1	255.255.255.0	N/A
	Lo0	10.1.1.1	255.255.255.252	N/A
WRS2	**WAN**	192.168.10.2	255.255.255.0	192.168.10.1
	LAN/Wireless	192.168.20.1	255.255.255.0	N/A
WRS3	**WAN**	192.168.10.3	255.255.255.0	192.168.10.1
	LAN/Wireless	192.168.30.1	255.255.255.0	N/A
PC1	**NIC**	11.11.11.10	255.255.255.0	11.11.11.1
PC4	**NIC**	18.18.18.10	255.255.255.0	18.18.18.1

Addressing Table continued on next page

Addressing Table continued

S1	**VLAN 5**	5.5.5.1	255.255.255.0	N/A
S2	**VLAN 5**	5.5.5.2	255.255.255.0	N/A
S3	**VLAN 5**	5.5.5.3	255.255.255.0	N/A

Learning Objectives

- Troubleshoot the network.
- Verify connectivity.

Scenario

In this activity, a basic network and wireless network have been configured improperly. You must find and correct the misconfigurations based on the minimum network specifications provided by your company.

Task 1: Troubleshoot the Network

Examine the routers and switches; determine any errors in the network.

Note: Packet Tracer will not grade the allowed VLANs for trunking mode.

The wireless routing requirements are as follows:

- Connections via the IP addresses shown in the topology diagram.
- 30 clients can get an IP address through DHCP at a single time.
- Wireless clients must be authenticated using WEP with a key of **5655545251**.
- Ping requests coming from outside WAN ports of the Linksys routers to their inside LAN/wireless IP addresses (192.168.30.1) must be successful.
- DHCP must assign PC2 and PC3 their proper IP addresses.

Task 2: Verify Connectivity

Due to a bug, Packet Tracer does not allow for PC2 and PC3 to ping one another, however connectivity should exist in all other circumstances. If they do not, continue troubleshooting. All the PCs should be able to ping one another and R1. Your completion result should be 100%. If not, continue troubleshooting.

