1. Create and name the VLANs.

2. Create the management interface.

3. Configure access ports.

4. Configure trunking ports.

**1. Create and name the VLANs.**

First, the VLANs are created and named. VLANs are only created after you exit out of VLAN subconfiguration mode.

S1(config)# **vlan 10**

S1(config-vlan)# **name LAN10**

S1(config-vlan)# **exit**

S1(config)# **vlan 20**

S1(config-vlan)# **name LAN20**

S1(config-vlan)# **exit**

S1(config)# **vlan 99**

S1(config-vlan)# **name Management**

S1(config-vlan)# **exit**

S1(config)#

**2. Create the management interface.**

Next, the management interface is created on VLAN 99 along with the default gateway of R1.

S1(config)# **interface vlan 99**

S1(config-if)# **ip add 192.168.99.2 255.255.255.0**

S1(config-if)# **no shut**

S1(config-if)# **exit**

S1(config)# **ip default-gateway 192.168.99.1**

S1(config)#

**3. Configure access ports.**

Next, port Fa0/6 connecting to PC1 is configured as an access port in VLAN 10. Assume PC1 has been configured with the correct IP address and default gateway.

S1(config)# **interface fa0/6**

S1(config-if)# **switchport mode access**

S1(config-if)# **switchport access vlan 10**

S1(config-if)# **no shut**

S1(config-if)# **exit**

S1(config)#

**4. Configure trunking ports.**

Finally, ports Fa0/1 connecting to S2 and Fa05 connecting to R1 are configured as trunk ports.

S1(config)# **interface fa0/1**

S1(config-if)# **switchport mode trunk**

S1(config-if)# **no shut**

S1(config-if)# **exit**

S1(config)# **interface fa0/5**

S1(config-if)# **switchport mode trunk**

S1(config-if)# **no shut**

S1(config-if)# **end**

\*Mar 1 00:23:43.093: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

\*Mar 1 00:23:44.511: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/5, changed state to up