Networking Academy
CISCO.

EE3009 Lab 3.1 (Router set : group) Sem A 2024/2025

Name : _____(CityU ID : _____)   Group no.: ____

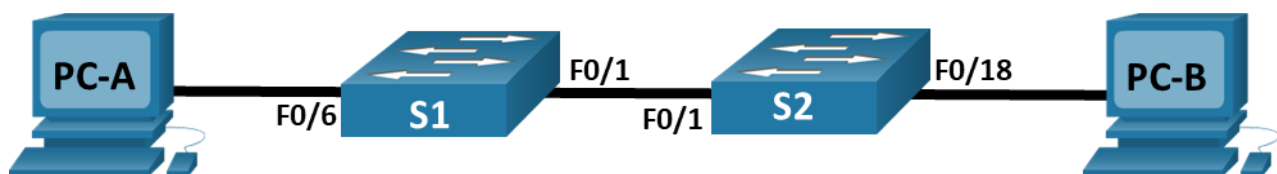Name : _____(CityU ID : _____)   Date: _____

Name : _____(CityU ID : _____)

3.4.6 - Configure VLANs and Trunking

Topology

Addressing Table

Device	Interface	IP Address	Subnet Mask	Default Gateway
S1	VLAN 1	192.168.1.11	255.255.255.0	N/A
S2	VLAN 1	192.168.1.12	255.255.255.0	N/A
PC-A	NIC	192.168.10.3	255.255.255.0	192.168.10.1
PC-B	NIC	192.168.10.4	255.255.255.0	192.168.10.1

Objectives

Part 1: Build the Network and Configure Basic Device Settings

Part 2: Create VLANs and Assign Switch Ports

Part 3: Maintain VLAN Port Assignments and the VLAN Database

Part 4: Configure an 802.1Q Trunk between the Switches

Part 5: Delete the VLAN Database

Background / Scenario

Modern switches use virtual local-area networks (VLANs) to improve network performance by separating large Layer 2 broadcast domains into smaller ones. VLANs can also be used as a security measure by controlling which hosts can communicate. In general, VLANs make it easier to design a network to support the goals of an organization.

VLAN trunks are used to span VLANs across multiple devices. Trunks allow the traffic from multiple VLANS to travel over a single link, while keeping the VLAN identification and segmentation intact.

In this lab, you will create VLANs on both switches in the topology, assign VLANs to switch access ports, verify that VLANs are working as expected, and then create a VLAN trunk between the two switches to

allow hosts in the same VLAN to communicate through the trunk, regardless of which switch the host is actually attached to.

Required Resources

- 2 Switches (Cisco 2960 with Cisco IOS Release 15.2(2) lanbasek9 image or comparable)
- 2 PCs (Windows with a terminal emulation program, such as Tera Term)
- Console cables to configure the Cisco IOS devices via the console ports
- Ethernet cables as shown in the topology

Instructions

Part 1: Build the Network and Configure Basic Device Settings

In Part 1, you will set up the network topology and configure basic settings on the PC hosts and switches.

Step 1: Cable the network as shown in the topology.

Attach the devices as shown in the topology diagram, and cable as necessary.

Step 2: Configure basic settings for each switch.

a. Console into the switch and enable privileged EXEC mode.

```
switch> enable
```

b. Enter configuration mode.

```
switch# config terminal
```

c. Assign a device name to the switch.

```
switch(config)# hostname S1

switch(config)# hostname S2
```

d. Disable DNS lookup to prevent the router from attempting to translate incorrectly entered commands as though they were host names.

```
S1(config)# no ip domain-lookup

S2(config)# no ip domain-lookup
```

e. Assign **class** as the privileged EXEC encrypted password.

```
S1(config)# enable secret class

S2(config)# enable secret class
```

f. Configure the IP address listed in the Addressing Table for VLAN 1 on the switch.

```
S1(config)# interface vlan 1
S1(config-if)# ip address 192.168.1.11 255.255.255.0
S1(config-if)# no shutdown
S1(config-if)# exit

S2(config)# interface vlan 1
S2(config-if)# ip address 192.168.1.12 255.255.255.0
S2(config-if)# no shutdown
```

```
S2(config-if)# exit
```

g. Shut down all interfaces that will not be used.

```
S1(config)# interface range f0/2-5, f0/7-24, g0/1-2
S1(config-if-range)# shutdown

S2(config)# interface range f0/2-17, f0/19-24, g0/1-2
S2(config-if-range)# shutdown
```

h. Save the running configuration to the startup configuration file.

```
S1# copy running-config startup-config

S2# copy running-config startup-config
```

Step 3: Configure PC hosts.

Refer to the Addressing Table for PC host address information.

* Configure the *Realtek RTL8139/810x Family NIC* and disable the *Intel Ethernet* Card.

* Turn off the firewalls of both PC-A and PC-B

Step 4: Test connectivity.

Verify that the PC hosts can ping one another.

Can PC-A ping PC-B?

_____

Can PC-A ping S1?

_____

Can PC-B ping S2?

_____

Can S1 ping S2?

_____

If you answered no to any of the above questions, why were the pings unsuccessful?

_____

_____

Part 2: Create VLANs and Assign Switch Ports

In Part 2, you will create Management, Operations, Parking_Lot, and Native VLANs on both switches. You will then assign the VLANs to the appropriate interface. The **show vlan** command is used to verify your configuration settings.

Step 1: Create VLANs on the switches.

a. Create the VLANs on S1.

```
S1(config)# vlan 10
S1(config-vlan)# name Operations
S1(config-vlan)# vlan 20
S1(config-vlan)# name Parking_Lot
S1(config-vlan)# vlan 99
S1(config-vlan)# name Management
S1(config-vlan)# vlan 1000
S1(config-vlan)# name Native
S1(config-vlan)# end
```

b. Create the same VLANs on S2.

c. Issue the **show vlan brief** command to view the list of VLANs on S1.

```
S1# show vlan brief

VLAN Name                             Status    Ports
---- -------------------------------- --------- -------------------------------
1    default                          active    Fa0/1, Fa0/2, Fa0/3, Fa0/4
                                                Fa0/5, Fa0/6, Fa0/7, Fa0/8
                                                Fa0/9, Fa0/10, Fa0/11, Fa0/12
                                                Fa0/13, Fa0/14, Fa0/15, Fa0/16
                                                Fa0/17, Fa0/18, Fa0/19, Fa0/20
                                                Fa0/21, Fa0/22, Fa0/23, Fa0/24
                                                Gi0/1, Gi0/2
10   Operations                       active
20   Parking_Lot                      active
99   Management                       active
1000 Native                           active
1002 fddi-default                     act/unsup
1003 token-ring-default               act/unsup
1004 fddinet-default                  act/unsup
1005 trnet-default                    act/unsup
```

What is the default VLAN?

_____

What ports are assigned to the default VLAN?

_____

Step 2: Assign VLANs to the correct switch interfaces.

a. Assign VLANs to the interfaces on S1.

1) Assign PC-A to the Operation VLAN.

```
S1(config)# interface f0/6
S1(config-if)# switchport mode access
S1(config-if)# switchport access vlan 10
```

2) Move the switch IP address VLAN 99.

```
S1(config)# interface vlan 1
S1(config-if)# no ip address
S1(config-if)# interface vlan 99
S1(config-if)# ip address 192.168.1.11 255.255.255.0
```

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

b. Issue the **show vlan brief** command and verify that the VLANs are assigned to the correct interfaces.

```
S1# show vlan brief

VLAN Name                             Status    Ports
---- -------------------------------- --------- -------------------------------
1    default                          active    Fa0/1, Fa0/2, Fa0/3, Fa0/4
                                                Fa0/5, Fa0/7, Fa0/8, Fa0/9
                                                Fa0/10, Fa0/11, Fa0/12, Fa0/13
                                                Fa0/14, Fa0/15, Fa0/16, Fa0/17
                                                Fa0/18, Fa0/19, Fa0/20, Fa0/21
                                                Fa0/22, Fa0/23, Fa0/24, Gi0/1
                                                Gi0/2
10   Operations                       active    Fa0/6
20   Faculty                          active
99   Management                       active
1002 fddi-default                     act/unsup
1003 token-ring-default               act/unsup
1004 fddinet-default                  act/unsup
1005 trnet-default                    act/unsup
```

c. Issue the **show ip interface brief** command.

```
S1# show ip interface brief
Interface         IP-Address      OK? Method Status                 Protocol
Vlan1             unassigned      YES unset  up                     up
Vlan99            192.168.1.11    YES manual up                     down
FastEthernet0/1   unassigned      YES unset  up                     up
FastEthernet0/2   unassigned      YES unset  administratively down down
FastEthernet0/3   unassigned      YES unset  administratively down down
FastEthernet0/4   unassigned      YES unset  administratively down down
FastEthernet0/5   unassigned      YES unset  administratively down down
FastEthernet0/6   unassigned      YES unset  up                     up
FastEthernet0/7   unassigned      YES unset  administratively down down
<output omitted>
```

What is the status of VLAN 99? Explain.

_____

_____

_____

d. Assign PC-B to the Operations VLAN on S2.

```
S2(config)# interface f0/18
S2(config-if)# switchport mode access
S2(config-if)# switchport access vlan 10
```

e. Remove the IP address for VLAN 1 on S2.

```
S2(config)# interface vlan 1
S2(config-if)# no ip address
```

f. Configure an IP address for VLAN 99 on S2 according to the Addressing Table.

```
S2(config-if)# interface vlan 99
S2(config-if)# ip address 192.168.1.12 255.255.255.0
```

g. Use the **show vlan brief** command to verify that the VLANs are assigned to the correct interfaces.

```
S2# show vlan brief

VLAN Name                             Status    Ports
---- -------------------------------- --------- -------------------------------
1    default                          active    Fa0/1, Fa0/2, Fa0/3, Fa0/4
                                                Fa0/5, Fa0/6, Fa0/7, Fa0/8
                                                Fa0/9, Fa0/10, Fa0/11, Fa0/12
                                                Fa0/13, Fa0/14, Fa0/15, Fa0/16
                                                Fa0/17, Fa0/19, Fa0/20, Fa0/21
                                                Fa0/22, Fa0/23, Fa0/24, Gi0/1
                                                Gi0/2
10   Operations                       active    Fa0/18
20   Parking_Lot                      active
99   Management                       active
1000 Native                           active
1002 fddi-default                     act/unsup
1003 token-ring-default               act/unsup
1004 fddinet-default                  act/unsup
1005 trnet-default                    act/unsup
```

Is S1 able to ping S2? Explain.

_____

_____

Is PC-A able to ping PC-B? Explain.

_____

_____

Part 3: Maintain VLAN Port Assignments and the VLAN Database

In Part 3, you will change VLAN assignments to ports and remove VLANs from the VLAN database.

Step 1: Assign a VLAN to multiple interfaces.

a. On S1, assign interfaces F0/11 – 24 to VLAN99.

```
S1(config)# interface range f0/11-24
S1(config-if-range)# switchport mode access
S1(config-if-range)# switchport access vlan 99
S1(config-if-range)# end
```

b. Issue the **show vlan brief** command to verify VLAN assignments.

```
S1# show vlan brief

VLAN Name                             Status    Ports
---- -------------------------------- --------- -------------------------------
1    default                          active    Fa0/1, Fa0/2, Fa0/3, Fa0/4
                                                Fa0/5, Fa0/7, Fa0/8, Fa0/9
                                                Fa0/10, Gi0/1, Gi0/2
10   Operations                       active    Fa0/6
20   Parking_Lot                      active
99   Management                       active    Fa0/11, Fa0/12, Fa0/13, Fa0/14
                                                Fa0/15, Fa0/16, Fa0/17, Fa0/18
                                                Fa0/19, Fa0/20, Fa0/21, Fa0/22
```

```
                                              Fa0/23, Fa0/24
1000 Native                      active
1002 fddi-default               act/unsup
1003 token-ring-default         act/unsup
1004 fddinet-default            act/unsup
1005 trnet-default              act/unsup
```

c. Reassign F0/11 and F0/21 to VLAN 10.

```
S1(config)# interface range f0/11, f0/21
S1(config-if-range)# switchport access vlan 10
S1(config-if-range)# end
```

d. Verify that VLAN assignments are correct.

```
S1# show vlan brief

VLAN Name                        Status    Ports
---- ------------------------------ --------- -------------------------------
1    default                     active    Fa0/1, Fa0/2, Fa0/3, Fa0/4
                                           Fa0/5, Fa0/7, Fa0/8, Fa0/9
                                           Fa0/10, Gi0/1, Gi0/2
10   Operations                  active    Fa0/6, Fa0/11, Fa0/21
20   Parking_Lot                 active
99   Management                  active    Fa0/12, Fa0/13, Fa0/14, Fa0/15
                                           Fa0/16, Fa0/17, Fa0/18, Fa0/19
                                           Fa0/20, Fa0/22, Fa0/23, Fa0/24
1000 Native                      active
1002 fddi-default               act/unsup
1003 token-ring-default         act/unsup
1004 fddinet-default            act/unsup
1005 trnet-default              act/unsup
```

Step 2: Remove a VLAN assignment from an interface.

a. Use the **no switchport access vlan** command to remove the VLAN 99 assignment to F0/24.

```
S1(config)# interface f0/24
S1(config-if)# no switchport access vlan
S1(config-if)# end
```

b. Verify that the VLAN change was made.

Which VLAN is F0/24 now associated with?

_____

```
S1# show vlan brief

VLAN Name                        Status    Ports
---- ------------------------------ --------- -------------------------------
1    default                     active    Fa0/1, Fa0/2, Fa0/3, Fa0/4
                                           Fa0/5, Fa0/7, Fa0/8, Fa0/9
                                           Fa0/10, Fa0/24, Gi0/1, Gi0/2
10   Operations                  active    Fa0/6, Fa0/11, Fa0/21
20   Parking_Lot                 active
99   Management                  active    Fa0/12, Fa0/13, Fa0/14, Fa0/15
                                           Fa0/16, Fa0/17, Fa0/18, Fa0/19
                                           Fa0/20, Fa0/22, Fa0/23
```

```
1000 Native                         active
1002 fddi-default                   act/unsup
1003 token-ring-default             act/unsup
1004 fddinet-default                act/unsup
1005 trnet-default                  act/unsup
```

Step 3: Remove a VLAN ID from the VLAN database.

a. Add VLAN 30 to interface F0/24 without issuing the global VLAN command.

```
S1(config)# interface f0/24
S1(config-if)# switchport access vlan 30
% Access VLAN does not exist. Creating vlan 30
```

Note: Current switch technology no longer requires that the **vlan** command be issued to add a VLAN to the database. By assigning an unknown VLAN to a port, the VLAN will be created and added to the VLAN database.

b. Verify that the new VLAN is displayed in the VLAN table.

```
S1# show vlan brief


VLAN Name                             Status    Ports
---- ------------------------------- --------- -------------------------------
1    default                          active    Fa0/1, Fa0/2, Fa0/3, Fa0/4
                                                Fa0/5, Fa0/7, Fa0/8, Fa0/9
                                                Fa0/10, Gi0/1, Gi0/2
10   Operations                       active    Fa0/6, Fa0/11, Fa0/21
20   Parking_Lot                      active
30   VLAN0030                         active    Fa0/24
99   Management                       active    Fa0/12, Fa0/13, Fa0/14, Fa0/15
                                                Fa0/16, Fa0/17, Fa0/18, Fa0/19
                                                Fa0/20, Fa0/22, Fa0/23
1000 Native                           active
1002 fddi-default                     act/unsup
1003 token-ring-default               act/unsup
1004 fddinet-default                  act/unsup
1005 trnet-default                    act/unsup
```

What is the default name of VLAN 30?

_____

c. Use the **no vlan 30** command to remove VLAN 30 from the VLAN database.

```
S1(config)# no vlan 30
S1(config)# end
```

d. Issue the **show vlan brief** command. F0/24 was assigned to VLAN 30.

After deleting VLAN 30 from the VLAN database, what VLAN is port F0/24 assigned to? What happens to the traffic destined to the host attached to F0/24?

_____

_____

_____

_____

```
S1# show vlan brief
```

```
VLAN Name                            Status    Ports
---- -------------------------------- --------- -------------------------------
1    default                          active    Fa0/1, Fa0/2, Fa0/3, Fa0/4
                                                Fa0/5, Fa0/7, Fa0/8, Fa0/9
                                                Fa0/10, Gi0/1, Gi0/2
10   Operations                       active    Fa0/6, Fa0/11, Fa0/21
20   Parking_Lot                      active
99   Management                       active    Fa0/12, Fa0/13, Fa0/14, Fa0/15
                                                Fa0/16, Fa0/17, Fa0/18, Fa0/19
                                                Fa0/20, Fa0/22, Fa0/23
1000 Native                           active
1002 fddi-default                     act/unsup
1003 token-ring-default               act/unsup
1004 fddinet-default                  act/unsup
1005 trnet-default                    act/unsup
```

e. Issue the **no switchport access vlan** command on interface F0/24.

```
S1(config)# interface f0/24
S1(config-if)# no switchport access vlan
S1(config-if)# end
```

f. Issue the **show vlan brief** command to determine the VLAN assignment for F0/24.

To which VLAN is F0/24 assigned?

_____

```
S1# show vlan brief
VLAN Name                            Status    Ports
---- -------------------------------- --------- -------------------------------
1    default                          active    Fa0/1, Fa0/2, Fa0/3, Fa0/4
                                                Fa0/5, Fa0/7, Fa0/8, Fa0/9
                                                Fa0/10, Fa0/24, Gi0/1, Gi0/2
10   Operations                       active    Fa0/6, Fa0/11, Fa0/21
20   Parking_Lot                      active
99   Management                       active    Fa0/12, Fa0/13, Fa0/14, Fa0/15
                                                Fa0/16, Fa0/17, Fa0/18, Fa0/19
                                                Fa0/20, Fa0/22, Fa0/23
1000 Native                           active
1002 fddi-default                     act/unsup
1003 token-ring-default               act/unsup
1004 fddinet-default                  act/unsup
1005 trnet-default                    act/unsup
```

Note: Before removing a VLAN from the database, it is recommended that you reassign all the ports assigned to that VLAN.

Why should you reassign a port to another VLAN before removing the VLAN from the VLAN database?

_____

_____

_____

_____

_____

Part 4: Configure an 802.1Q Trunk Between the Switches

In Part 4, you will configure interface F0/1 to use the Dynamic Trunking Protocol (DTP) to allow it to negotiate the trunk mode. After this has been accomplished and verified, you will disable DTP on interface F0/1 and manually configure it as a trunk.

Step 1: Use DTP to initiate trunking on F0/1.

The default DTP mode of a 2960 switch port is dynamic auto. This allows the interface to convert the link to a trunk if the neighboring interface is set to trunk or dynamic desirable mode.

a. Set F0/1 on S1 to negotiate trunk mode.

```
S1(config)# interface f0/1
S1(config-if)# switchport mode dynamic desirable
Sep 19 02:51:47.257: %LINEPROTO-5-UPDOWN: Line protocol on Interface
FastEthernet0/1, changed state to up
Sep 19 02:51:47.291: %LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan99,
changed state to up
```

You should also receive link status messages on S2.

```
S2#
Sep 19 02:42:19.424: %LINK-3-UPDOWN: Interface FastEthernet0/1, changed state to up
Sep 19 02:42:21.454: %LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan99,
changed state to up
Sep 19 02:42:22.419: %LINEPROTO-5-UPDOWN: Line protocol on Interface
FastEthernet0/1, changed state to up
```

b. Issue the **show vlan brief** command on S1 and S2. Interface F0/1 is no longer assigned to VLAN 1. Trunked interfaces are not listed in the VLAN table.

```
S1# show vlan brief

VLAN Name                             Status    Ports
---- -------------------------------- --------- -------------------------------
1    default                          active    Fa0/2, Fa0/3, Fa0/4, Fa0/5
                                                Fa0/7, Fa0/8, Fa0/9, Fa0/10
                                                Fa0/24, Gi0/1, Gi0/2
10   Operations                       active    Fa0/6, Fa0/11, Fa0/21
20   Parking_Lot                      active
99   Management                       active    Fa0/12, Fa0/13, Fa0/14, Fa0/15
                                                Fa0/16, Fa0/17, Fa0/18, Fa0/19
                                                Fa0/20, Fa0/22, Fa0/23
1000 Native                           active
1002 fddi-default                     act/unsup
1003 token-ring-default               act/unsup
1004 fddinet-default                  act/unsup
1005 trnet-default                    act/unsup
```

c. Issue the **show interfaces trunk** command to view trunked interfaces. Notice that the mode on S1 is set to desirable, and the mode on S2 is set to auto.

```
S1# show interfaces trunk

Port        Mode            Encapsulation  Status        Native vlan
Fa0/1       desirable       802.1q         trunking      1


Port        Vlans allowed on trunk
Fa0/1       1-4094


Port        Vlans allowed and active in management domain
```

```
Fa0/1      1,10,20,99,1000

Port       Vlans in spanning tree forwarding state and not pruned
Fa0/1      1,10,20,99,1000


S2# show interfaces trunk

Port       Mode              Encapsulation  Status       Native vlan
Fa0/1      auto              802.1q         trunking     1

Port       Vlans allowed on trunk
Fa0/1      1-4094

Port       Vlans allowed and active in management domain
Fa0/1      1,10,20,99,1000

Port       Vlans in spanning tree forwarding state and not pruned
Fa0/1      1,10,20,99,1000
```

Note: By default, all VLANs are allowed on a trunk. The **switchport trunk** command allows you to control what VLANs have access to the trunk. For this lab, keep the default settings which allows all VLANs to traverse F0/1.

d. Verify that VLAN traffic is traveling over trunk interface F0/1.

Can S1 ping S2?   _____

Can PC-A ping PC-B?_____

Can PC-A ping S1? _____

Can PC-B ping S2? _____

If you answered no to any of the above questions, explain below.

_____
_____

☞ **Demonstrate PC-A and PC-B can ping each other and the results of part c to the instructor.**

Step 2: Manually configure trunk interface F0/1.

The **switchport mode trunk** command is used to manually configure a port as a trunk. This command should be issued on both ends of the link.

a. Change the switchport mode on interface F0/1 to force trunking. Make sure to do this on both switches.

```
S1(config)# interface f0/1
S1(config-if)# switchport mode trunk
```

```
S2(config)# interface f0/1
S2(config-if)# switchport mode trunk
```

b. Issue the **show interfaces trunk** command to view the trunk mode. Notice that the mode changed from **desirable** to **on**.

```
S2# show interfaces trunk

Port        Mode                Encapsulation Status        Native vlan
Fa0/1       on                  802.1q        trunking      1

Port        Vlans allowed on trunk
Fa0/1       1-4094

Port        Vlans allowed and active in management domain
Fa0/1       1,10,20,99,1000

Port        Vlans in spanning tree forwarding state and not pruned
Fa0/1       1,10,20,99,1000
```

c. Modify the trunk configuration on both switches by changing the native VLAN from VLAN 1 to VLAN 1000.

```
S1(config)# interface f0/1
S1(config-if)# switchport trunk native vlan 1000


S2(config)# interface f0/1
S2(config-if)# switchport trunk native vlan 1000
```

d. Issue the show interfaces trunk command to view the trunk. Notice the Native VLAN information is updated.

```
S2# show interfaces trunk

Port        Mode                Encapsulation Status        Native vlan
Fa0/1       on                  802.1q        trunking      1000

Port        Vlans allowed on trunk
Fa0/1       1-4094

Port        Vlans allowed and active in management domain
Fa0/1       1,10,20,99,1000

Port        Vlans in spanning tree forwarding state and not pruned
Fa0/1       1,10,20,99,1000
```

Why might you want to manually configure an interface to trunk mode instead of using DTP?

_____

_____

_____

Why might you want to change the native VLAN on a trunk?

_____

_____

_____

_____

_____

Part 5: Delete the VLAN Database

In Part 5, you will delete the VLAN Database from the switch. It is necessary to do this when initializing a switch back to its default settings.

Step 1: Determine if the VLAN database exists.

Issue the **show flash** command to determine if a **vlan.dat** file exists in flash.

```
S1# show flash:

Directory of flash:/
    2  -rwx       59416   Mar 1 1993 01:20:12 +00:00  multiple-fs
    3  -rwx    15186645   Mar 1 1993 00:19:23 +00:00  c2960-lanbasek9-mz.152-
4.E8.bin
    5  -rwx         796   Sep 19 2019 02:48:04 +00:00  vlan.dat

61028352 bytes total (33762304 bytes free)
```

Note: If there is a **vlan.dat** file located in flash, then the VLAN database does not contain its default settings.

Step 2: Delete the VLAN database.

a. Issue the **delete vlan.dat** command to delete the vlan.dat file from flash and reset the VLAN database back to its default settings. You will be prompted twice to confirm that you want to delete the vlan.dat file. Press Enter both times.

```
S1# delete vlan.dat
Delete filename [vlan.dat]?
Delete flash:/vlan.dat? [confirm]
```

b. Issue the **show flash** command to verify that the vlan.dat file has been deleted.

```
S1# show flash:

Directory of flash:/
   2  -rwx       59416   Mar 1 1993 01:20:12 +00:00  multiple-fs
   3  -rwx    15186645   Mar 1 1993 00:19:23 +00:00  c2960-lanbasek9-mz.152-4.E8.bin

61028352 bytes total (33763840 bytes free)
```

c. Use the **erase startup-config** command to erase the startup configuration file from NVRAM. You are prompted to remove the configuration file. Press Enter to confirm.

```
Switch# erase startup-config
Erasing the nvram filesystem will remove all configuration files! Continue?
[confirm]
[OK]
Erase of nvram: complete
Switch#
```