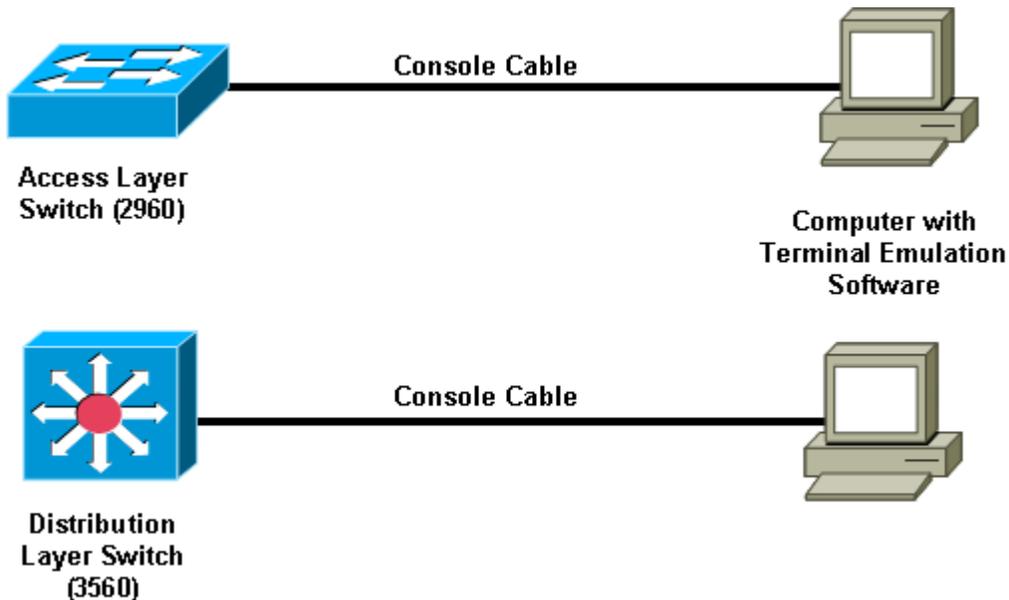


Chapter 1 Lab 1-1, Clearing a Switch

Topology



Objective

- Clear the configuration of a standalone switch to prepare it for a new lab.

Background

When working with a switch that has been previously configured, any new commands entered will be merged with the existing configuration, causing unpredictable results. In this lab you prepare a Catalyst 2960 or 3560 switch for use with a lab. This is accomplished by erasing the startup configuration from NVRAM and deleting the VLAN database.

Note: This lab uses the Cisco WS-C2960-24TT-L switch with the Cisco IOS image c2960-lanbasek9-mz.122-46.SE.bin and the Catalyst 3560-24PS switch with the Cisco IOS image c3560-advipservicesk9-mz.122-46.SE.bin. Other switches (such as a 2950 or a 3550), and Cisco IOS Software versions can be used if they have comparable capabilities and features. Depending on the switch model and Cisco IOS Software version, the commands available and output produced might vary from what is shown in this lab.

Required Resources

You may use one of the following switches or a comparable one with this lab:

- Cisco 2960 with the Cisco IOS Release 12.2(46)SE C2960-LANBASEK9-M image or comparable
- Cisco 3560 with the Cisco IOS Release 12.2(46)SE C3560-ADVIPSERVICESK9-M image or comparable
- Console cable

Step 1: Connect to the switch console port and enter privileged EXEC mode.

From a computer running a terminal emulation program, connect to the console port of the switch that you want to clear using a console cable. You should see a console prompt that includes the switch's hostname, followed by a **>** or **#**. The default switch hostname is "Switch."

```
Switch>
or
Switch#
```

If the prompt ends with a **>**, you are not in privileged EXEC mode. To enter privileged EXEC mode, type **enable**. This might require a password. If you are in a configuration mode, type **exit** or **end**.

If not enabled:

```
Switch> enable
Switch#
```

If in global configuration mode:

```
Switch(config)# exit
Switch#
```

Step 2: Delete the VLAN database file.

In privileged EXEC mode, type **delete flash:vlan.dat** and press Enter. If you are asked to confirm, press Enter until you are back to the original prompt.

```
Switch# delete flash:vlan.dat
Delete flash:vlan.dat? [confirm]
Switch#
```

Step 3: Erase the startup config from NVRAM.

After deleting the vlan.dat file, you can erase the startup configuration on the switch by typing **erase startup-config**. You again have to 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#
```

Step 4: Reload the device, but do *not* save the system configuration if prompted.

After clearing the switch configuration, reload the switch by typing **reload** and pressing Enter. If you are asked whether to save the current configuration, answer **no**. Press Enter to confirm. The switch starts reloading. Your output might look different depending on the switch model that you are using. This step might take a few minutes, because the switch needs time to reload.

```
Switch# reload

System configuration has been modified. Save? [yes/no]: no
Proceed with reload? [confirm]

%SYS-5-RELOAD: Reload requested by console. Reload Reason: Reload command.
Base ethernet MAC Address: 00:1b:0c:6d:8f:00
Xmodem file system is available.
The password-recovery mechanism is enabled.
```


Initializing flashfs...

```
flashfs[1]: 606 files, 20 directories
flashfs[1]: 0 orphaned files, 0 orphaned directories
flashfs[1]: Total bytes: 32514048
flashfs[1]: Bytes used: 10336256
flashfs[1]: Bytes available: 22177792
flashfs[1]: flashfs fsck took 1 seconds.
flashfs[1]: Initialization complete....done Initializing flashfs.
```

```
POST: CPU MIC register Tests : Begin
POST: CPU MIC register Tests : End, Status Passed
```

```
POST: PortASIC Memory Tests : Begin
POST: PortASIC Memory Tests : End, Status Passed
```

```
POST: CPU MIC interface Loopback Tests : Begin
POST: CPU MIC interface Loopback Tests : End, Status Passed
```

```
POST: PortASIC RingLoopback Tests : Begin
POST: PortASIC RingLoopback Tests : End, Status Passed
```

```
POST: PortASIC CAM Subsystem Tests : Begin
POST: PortASIC CAM Subsystem Tests : End, Status Passed
```

```
POST: PortASIC Port Loopback Tests : Begin
POST: PortASIC Port Loopback Tests : End, Status Passed
```

Waiting for Port download...Complete

This product contains cryptographic features and is subject to United States and local country laws governing import, export, transfer and use. Delivery of Cisco cryptographic products does not imply third-party authority to import, export, distribute or use encryption. Importers, exporters, distributors and users are responsible for compliance with U.S. and local country laws. By using this product you agree to comply with applicable laws and regulations. If you are unable to comply with U.S. and local laws, return this product immediately.

A summary of U.S. laws governing Cisco cryptographic products may be found at: <http://www.cisco.com/wvl/export/crypto/tool/stqrg.html>

If you require further assistance please contact us by sending email to export@cisco.com.

cisco WS-C2960-24TT-L (PowerPC405) processor (revision B0) with 61440K/4088K bytes of memory.

Processor board ID FOC1104W0G0

Last reset from power-on

1 Virtual Ethernet interface

24 FastEthernet interfaces

2 Gigabit Ethernet interfaces

The password-recovery mechanism is enabled.

64K bytes of flash-simulated non-volatile configuration memory.

Base ethernet MAC Address : 00:1B:0C:6D:8F:00

CCNPv6 SWITCH

```
Motherboard assembly number : 73-10390-03
Power supply part number    : 341-0097-02
Motherboard serial number   : FOC11036013
Power supply serial number  : AZS1103015V
Model revision number       : B0
Motherboard revision number : C0
Model number                : WS-C2960-24TT-L
System serial number        : FOC1104W0G0
Top Assembly Part Number    : 800-27221-02
Top Assembly Revision Number : C0
Version ID                  : V02
CLEI Code Number           : COM3L00BRA
Hardware Board Revision Number : 0x01
```

Switch	Ports	Model	SW Version	SW Image
-----	-----	-----	-----	-----
*	1 26	WS-C2960-24TT-L	12.2(46)SE	C2960-LANBASEK9-M

Step 5: When the switch restarts, do not enter the initial configuration dialog, but terminate autoinstall.

The switch might log messages to the console, such as interfaces coming up and down. When you see the "Press RETURN to get started!" prompt, press Enter.

If you are asked to enter an initial configuration dialog, type **no**. This places you at the user EXEC prompt. If you accidentally type yes, you can break out of the initial configuration dialog at any time by pressing Ctrl-C. If you are asked whether you want to terminate autoinstall, press Enter for "yes."

Press RETURN to get started! **Enter**

--- System Configuration Dialog ---

Would you like to enter the initial configuration dialog? [yes/no]: **no**

Would you like to terminate autoinstall? [yes]: **Enter**