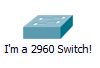
**IFT 266 Introduction to Network Information Communication Technology (ICT)   
  
Lab 7**

**Verify Switch Configuration**

**Answer each question by ticking the completed box with an ‘x’ or answer the open question**

1. You can use any switch you want to complete the lab. For this lab we will be using a 2960 switch



**Task 1: Erase and Reload the Switch**

**Clear the configuration on the switch**

Using a switch with an existing configuration may produce unpredictable results.

Even though we have selected a new switch for this lab lets run through how to remove any configuration settings that could be on a preconfigured switch.

1. **Remove the VLAN database information file.**Click on the switch you selected to use and enter the following commands

Switch#**delete flash:vlan.dat**

Delete filename [vlan.dat]?[**Enter**]

Delete flash:vlan.dat? [confirm] [**Enter**]

If there is no VLAN file, this message is displayed:

%Error deleting flash:vlan.dat (No such file or directory)

Verify that the VLAN configuration was deleted by using the **show vlan** command.

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1. **Remove the switch startup configuration file from NVRAM.**

Switch#**erase startup-config**

responding line prompt will be:

Erasing the nvram filesystem will remove all files! Continue? [confirm]

Press Enter to confirm.

Response should be: Erase of nvram: complete

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1. **Restart the switch** (reload the software) using the **reload** command

Switch#**reload**

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**Task 2: Verify the Default Switch Configuration**

**Examine the current switch configuration.**

1. **Examine the current running configuration file (run the following command):**

Switch#show running-config

How many Fast Ethernet interfaces does the switch have? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

How many Gigabit Ethernet interfaces does the switch have? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is the range of values shown for the vty lines? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Examine the current contents of NVRAM (run the following command):**

Switch#show startup-config

startup-config is not present

Why does the switch give this response? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Examine the characteristics of the virtual interface VLAN1** (run the following command):

Switch#show interface vlan1

Is there an IP address set on the switch? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is the MAC address of this virtual switch interface? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Is this interface up? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Now view the IP properties of the interface **(run the following command):**

Switch#show ip interface vlan1

What output do you see? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Display Cisco IOS information.**

Examine the following version information that the switch reports (run the following command):

Switch#show version

What is the Cisco IOS version that the switch is running? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is the system image filename? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is the base MAC address of this switch? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Examine the Fast Ethernet interfaces.**

Examine the default properties of the Fast Ethernet interface used by PC1 (run the following command):

Switch#**show interface fastethernet 0/18**

Is the interface up or down? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What event would make an interface go up? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is the MAC address of the interface? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is the speed and duplex setting of the interface? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Examine VLAN information.**

Examine the default VLAN settings of the switch (run the following command):

Switch#**show vlan**

What is the name of VLAN 1? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Which ports are in this VLAN? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Is VLAN 1 active? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What type of VLAN is the default VLAN? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Examine flash memory.**

Issue one of the following commands to examine the contents of the flash directory.

Switch#**dir flash:**

or

Switch#**show flash**

Which files or directories are found?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Files have a file extension, such as .bin, at the end of the filename.

Directories do not have a file extension.

What is the name of the Cisco IOS image file? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_