Reflashing HP Procurve 4000 and 8000 switches

Campus network design workshop

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Contents

1   Connect

Power up the switch.

To execute the factory default reset, perform these steps:

1. Using pointed objects, simultaneously press both the Reset and Clear buttons on the front of the switch.

2. Continue to press the Clear button while releasing the Reset button.

3. When the Self Test LED begins to flash, release the Clear button. The switch will then complete its self test and begin operating with the configuration restored to the factory default settings

Connect your USB-serial adaptor to your PC, and use the male-female DB9 adaptor
to connect to the Console port on the switch. Start your terminal program (e.g. putty for Windows) with a 9600 bps serial speed.

> Note: In the vast majority of cases, the default speed on device serial ports is 9600 bps. In this particular HP model, the switch is able to detect the speed setting in your terminal emulator, so you could technically use higher speeds if you wanted to.

1.1 Linux Users

If you are a Linux user, a simple terminal program is picocom:

```
# apt-get install picocom
# picocom /dev/ttyUSB0

Type ^A ^Q to exit (ctrl-A ctrl-Q).
```

An alternative is minicom, which has better terminal emulation but requires a bit more configuration.

Press Enter two or three times to enable the switch to detect the serial speed. You will see the copyright page and the message "press any key to continue". You will then see the main menu. Choose:

```
2. Switch Management Access Configuration (IP, SNMP, Console)...
```

Then:

```
1. IP Configuration
```

Then "Edit". Go to the table below and on DEFAULT_VLAN, select "DHCP/Bootp" with your space bar. Then press ENTER. Then select "Save" and press ENTER.

Connect the switch to the temporary network. Reboot the switch.

Now the switch will pick up a management IP address via DHCP.

Use the following menu options to check that the switch has picked up an IP address/default route via DHCP:

```
2. Switch Management Access Configuration
2. IP Configuration
```

The IP address should show in the "IP Address" column

2 Check firmware

Check which firmware image is currently running:

```
1. Status and Counters
1. General System Information
```

Look for "Firmware revision".

3   Upgrade

If the switch is running an older version that the one offered in the classroom, perform the upgrade as follows. Note that the filename is case-sensitive.

From the Main Menu:

```
7. Download OS

Method: TFTP
TFTP Server: 10.10.0.254
VLAN: DEFAULT_VLAN
Remote File Name: C.09.29.swi
```

Then Select "eXecute" from the bottom menu options.

Wait for the switch to download the firmware and reboot itself.

Your upgrade is complete, and you can disconnect the switch.

> Note: The firmware came from the HP website (www.procurve.com). Click on 'Support' then do a search on the product code, in this case J8152A.
>
> For the classroom we set up a TFTP server under Ubuntu Linux:
>
> ```
> # sudo apt-get install tftpd-hpa
> ```
>
> and unzipped the firmware file under the `/var/lib/tftpboot` directory. However there are TFTP servers for Windows available too.