Lab Access Instructions - Physical Hardware

Introduction

This lab runs on physical hardware provided for this workshop. The hardware comprises seven ethernet switches and one router per campus. Initially the method of access will be via the provided console cables connected to your laptops.

Lab access instructions

The instructors will divide the class into groups, where each group is responsible for the operation of a campus. Decide amongst yourselves which person will be responsible for configuring each switch.

There are eight Cisco devices on the table in front of you. They will be used in the following ways:

Device	Usage
2901	Border Router
3750	Core Router
3560	Distribution & Edge Switches

The bottom two 3560 switches in each stack will be used as the **Edge** switches and the top 3560 as the **Aggregation** switch for the two buildings in your campus.

We will use the console cables to connect to the devices until we have configured them more fully.

You can download and install the drivers for the USB cable from:

http://www.ftdichip.com/Drivers/VCP.htm

Choose the correct drivers for your operating system and install them.

Connecting from Windows

You can use **Putty** which we installed earlier to connect to the serial port created when the USB adapter is plugged in.

On the Putty window choose the **Serial** option and then change the **Serial line** to **COM6**. Leave the **Speed** set to **9600**.

Select **Open**

You can disconnect from the switch by closing the window.

Connecting from Linux or Mac

You can use the command line application **cu** to connect to the the serial port created when the USB adapter is plugged in. You can identify the name of the device using:

```
$ ls /dev/cu.usbserial*
/dev/cu.usbserial-FTDX4U8N
```

Then you can run:

```
$ sudo cu -9600 -l /dev/cu.usbserial-FTDX4U8N
Password:
Connected.
```

You can disconnect from the switch by typing **\~.**

Once you are connected

You may need to hit **Enter** a few times to get a prompt from the switch which should look like:

```
Switch>
```

If you are asked:

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

answer **no**!

The router will show some initialization routines, and finally, you will see the default prompt:

```
Switch>
```

You can then go into privileged mode:

```
Switch> enable
Switch#
```

And then enter configuration mode:

```
Switch# configure terminal
Switch(config)#
```

And you are ready to start entering configuration statements. When you are done, exit configuration mode by typing *end* or pressing *ctrl-Z* and save your changes:

```
Switch(config)# end
Switch# write memory
```

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