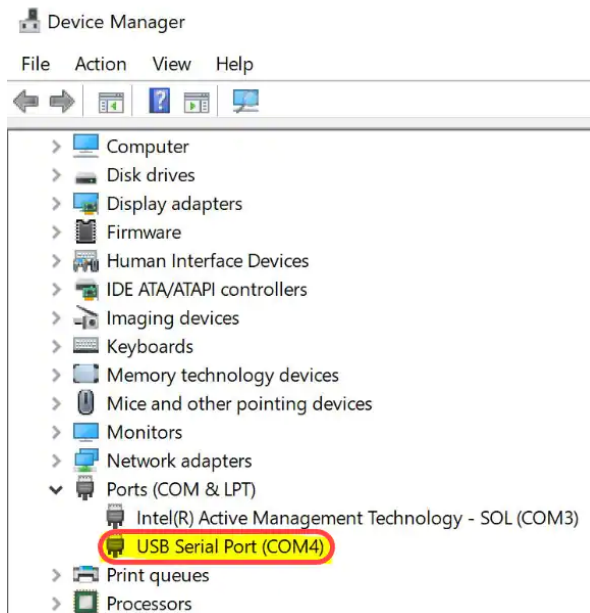


Class Lab 4-1: Console to Cisco Multi-Layer Switch

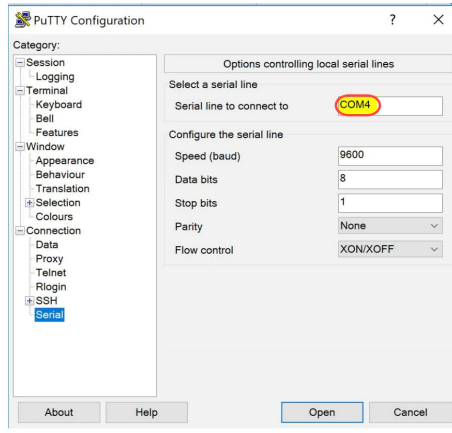
This is a Partner Lab

Console into Catalyst Switch using Putty

1. Plug serial console cable (light blue) into USB port on Workstation
2. Open Device Manager to see what COM port it is using:

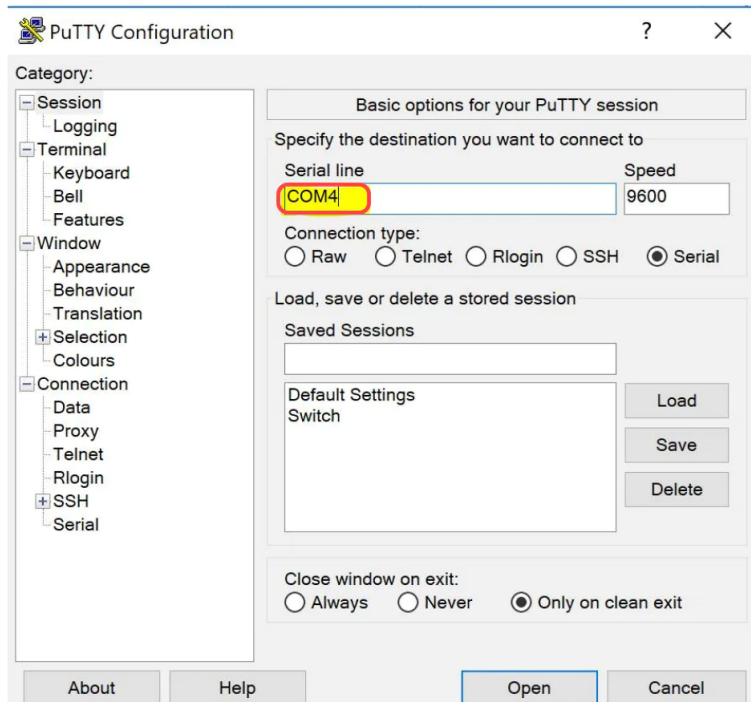


3. Connect cable to console port on switch
4. Power on switch (plug it in if not already running)
5. Open Putty on Workstation
6. Under Connection - Go to Serial and enter the following
 - a. Serial Line to Connect: *COM port from Step 2*
 - b. Bits per sec : 9600
 - c. Data bits : 8
 - d. Parity : none
 - e. Stop bits : 1
 - f. Flow control : none



g.

7. Under Session - Select Serial and change the COM port to the # from Step 2:



8. Click Open - Hit Enter and you should have access!

Clear Current Configuration

1. Say "no" if prompted to run setup wizard
2. Enter privileged mode
3. Enter the command *write erase*, which erases the NVRAM file system and removes all files.
4. At the prompt, confirm that you want to erase all files.
5. Enter command *reload*, and enter *no* when prompted whether to save the configuration. (Otherwise, the switch will reload the current running configuration.)
6. Confirm that you want to reload the switch, and your switch configuration is almost clean.

7. Upon reboot, say "no" if prompted to run setup wizard

Show Configuration

1. After the switch reloads - go to privileged mode and run the command "show run"
2. Review the default configuration for the switch
3. Enter config mode - and use the "hostname" command to set the hostname to include both of your names
4. Run show configuration again to see the added hostname

SUBMIT: Screenshot of configuration with both student names present. Only one student needs to submit - but add partners name in comments

(Optional) If your switch has a configuration/password - here are the steps to Reset

1. Hold the "mode" button and power on the switch (plug it in)
2. After about 15 seconds you should see output similar to:

```
The system has been interrupted prior to initializing the
flash filesystem. The following commands will initialize
the flash filesystem, and finish loading the operating
system software:
flash_init
load_helper
boot
switch:
```

3. You are now in recovery mode. You will need to mount "flash" so you can work with the config files

- type the command "flash_init" - this will initialize (aka mount) the flash file system

4. Once initialized, you should be able to use "dir flash:" to see the contents of flash
5. From here, you can delete the configuration (config.text) and the vlan database (vlan.dat) using the following commands:

- `del flash:config.text`
- `del flash:vlan.dat`
- NOTE: on Catalyst Switches, these are synched with the configuration files in NVRAM - deleting them here will cause the switch to boot without a startup-config. So it will boot to the factory-fresh default config

6. Type "boot" and the switch will boot to it's factory fresh state! Type "N" for entering setup

