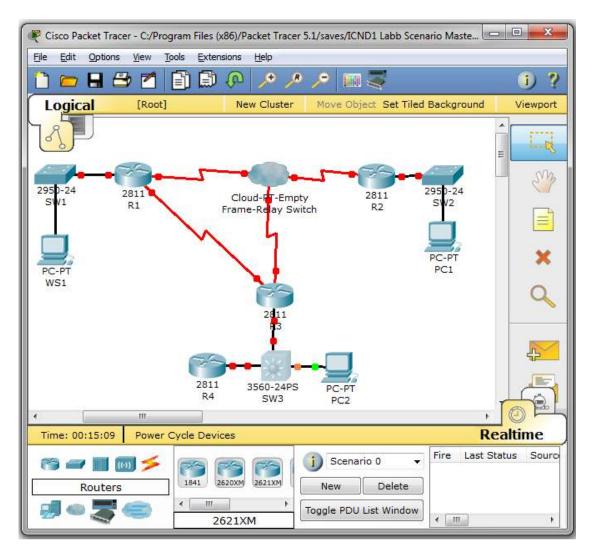
ICND1

Switch Configuration Lab

TOPOLOGY

- 3xPC (hosts)
- 2x2950 (Layer 2 Switches)
- 1x3560 (Layer 3 Switch)
- 5x2811 (Routers, unused in this set of labs)

All configurations have been set to factory defaults for these labs



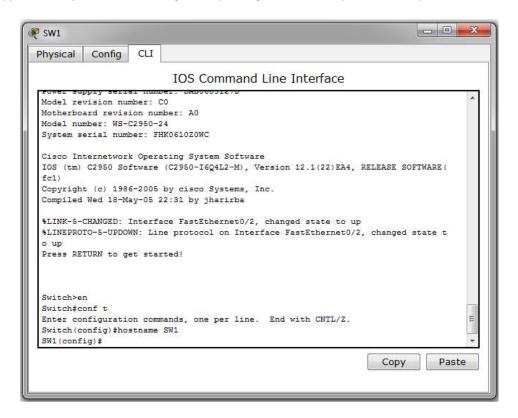
Lab Exercise 1: Initial Switch Configurations

Equipment Involved: SW1, SW2 & SW3

STEP1: Configure Hostnames on All Switches

Double click on SW1 to open the command line interface window

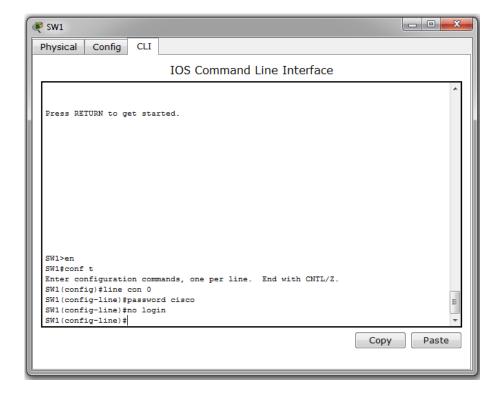
- Press **<enter>** to get to user exec mode
- Type en and press <enter> to go into privileged mode (no password required)



- Type **config t** to enter global configuration mode (see above)
- Type hostname SWX (X=site number, site 1 would be SW1, site 2 would be SW2, etc.) to create the appropriate name on the device. The prompt should immediately change to the new hostname
- Type **exit** to return to the command line, and type **copy running-config startup-config (**or **wr mem)** to save the configuration to memory.
- Repeat for switches 2 and 3
- When finished, select File > Save on the main screen in order to save your changes in the simulator file

STEP 2: Configure Basic Access Settings on All Switches

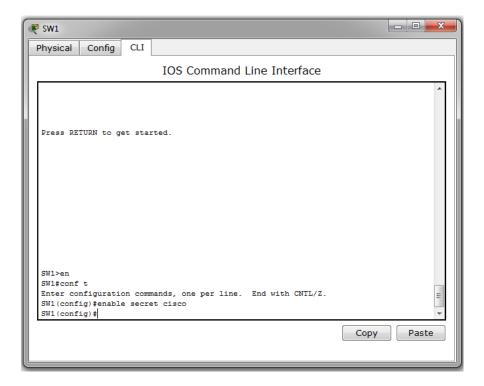
- Double click on SW1 to open the command line interface window
- Press **<enter>** to get to user exec mode
- Type **en** and press **<enter>** to go into privileged mode (no password required)



- Type config t and press <enter> to go into global configuration mode (see above)
- Type line con 0 to enter console configuration mode
- Type **password cisco** to set the password for logins on the console port
- Type **no login** to prevent having to use a password to gain access to the switch (never use this in a production environment, just makes the lab login process simpler)
- Type line vty 0 15 to enter virtual terminal configuration mode(e.g., telnet/ssh access)
- Type password cisco to set the password for logins on the virtual terminal port
- Type login to force all users to enter a password for remote access
- Type **exit** to return to the command line, and type **copy running-config startup-config (or wr mem)** to save the configuration to memory.
- Repeat for switches 2 and 3
- When finished, select **File > Save** on the main screen in order to save your changes in the simulator file

STEP 3: Create Basic Security Settings on All Switches

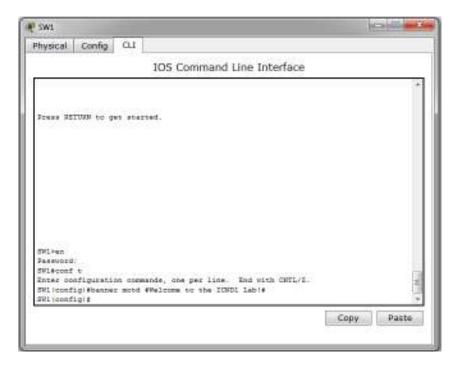
- Double click on SW1 (2950 Switch A) to open the command line interface window
- Press **<enter>** to get to user exec mode
- Type **en** and press **<enter>** to go into privileged mode (no password required)



- Type **config t** and press **<enter>** to go into global configuration mode (see above)
- Type enable secret cisco to set the encrypted password used to enter privileged mode
- Type **exit** to return to global configuration mode
- Repeat for switches 2 and 3
 When finished, select File > Save on the main screen in order to save your changes in the simulator file

STEP 4: Set Other Basic Settings on All Switches

- Double click on SW1 (2950 Switch A) to open the command line interface window
- Press <enter> to get to user exec mode
 Type en and press <enter> to go into privileged mode (password cisco)



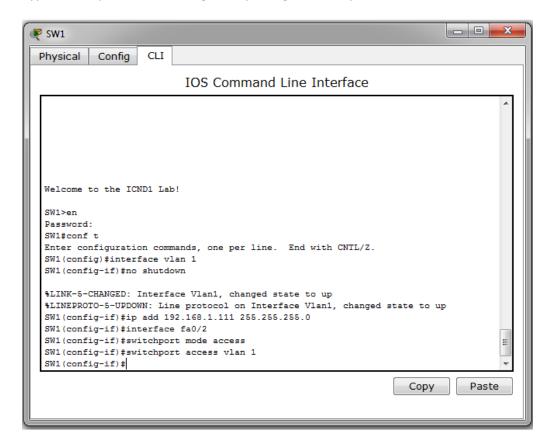
- Type config t and press <enter> to go into global configuration mode (see above)
- Type banner motd #Welcome to the ICND1 Lab!"
- Type **exit** to return to the command line, and type **copy running-config startup-config (**or **wr mem)** to save the configuration to memory.
- Repeat for switches 2 and 3 When finished, select File > Save on the main screen in order to save your changes in the simulator file

Lab Exercise 2: Switch Interface Configurations

Equipment Involved: SW1, SW2 & SW3

STEP1: Configure Ports & Interfaces on All Switches

- Double click on SW2 (2950 Switch A) to open the command line interface window
- Press **<enter>** to get to user exec mode
- Type en and press <enter> to go into privileged mode (password cisco)



- Type config t and press <enter> to go into global configuration mode (see above)
- Type interface vlan 1 to enter Switched Virtual Interface configuration mode for VLAN 1
- First, ensure that the interface is functioning by typing the **no shutdown** command
- Set the interface IPv4 address with the **ip address 192.168.X.11X 255.255.255.0** command (X = the site number, Site one would be 192.168.1.111, Site 2 would be 192.168.2.112, etc.)
- Set the interface attached to the LAN workstation to access mode
 - Type the command interface Fa0/2 (on SW1 & SW2), or interface fa0/3 (on SW3)
 - o Type switchport mode access to enable the port to support a single VLAN
 - Assign the port to VLAN 1 with the command switchport access vlan 1

- o Test connectivity to the workstation using the **ping 192.168.X.100** (X = the site number, Site one would be 192.168.1.100, Site 2 would be 192.168.2.100, etc.)
- Repeat for switches 2 and 3
- When finished, select **File > Save** on the main screen in order to save your changes in the simulator file