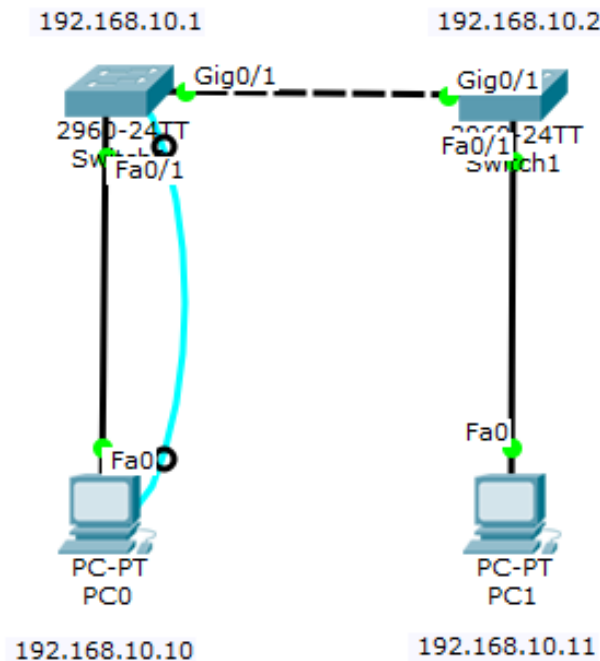


SBA Lab Activity 2.1.1.5: Switch Port Security Skills Integration Challenge

Topology

Scenario

The network administrator asked you to configure the newly purchased switch for the assigned departments. To finish your task, use the list of requirements to configure the network, following the given topology. Configure the switch with initial settings, SSH, and port security.



- Requirements

1. Configure **HRSwitch** and **MktgSwitch** with the following initial settings:
 - Hostname
 - Banner that includes the word **warningand prohibited**
 - Console port login and password **cisco**
 - Encrypted enable password of **class**
 - Encrypt plain text passwords
 - Management interface addressing
2. Configure SSH to secure remote access with the following settings:
 - Domain name of **com**
 - RSA key-pair parameters to support SSH version 2
 - Set SSH version 2
 - User **admin**with password **cisco**
 - VTY lines only accept SSH connections
 - use local login for authentication
3. Configure the port security feature to restrict network access.
 - Disable all unused ports.
 - Set the interface mode to access.
 - Enable port security to allow only two hosts per port.
 - Record the MAC address in the running configuration.
 - Ensure that port violations restrict ports.
4. Verify connection to all devices
 - PC's in its department can ping each other
 - PC's from different department can ping.
5. Checking Port Security

- Replace PC0 with Rogue Laptop
- Ping PC1, observe the connectivity
- Reconnect PC0 to the original set up
- Swap PC0 and PC 1
- Test the connection and observe.

Rubric:

1. Topology – 20pts
2. Initial Configuration – 20pts
3. Port Security – 20pts
4. Telnet – 20pts
5. Verification/Connectivity – 20pts