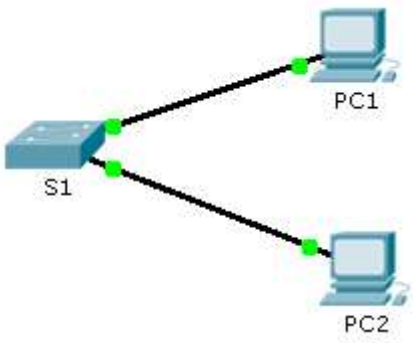
Packet Tracer - Skills Integration Challenge (Instructor Version)

Instructor Note: Red font color or Gray highlights indicate text that appears in the instructor copy only.

Topology



Addressing Table

Device	Interface	IP Address	Subnet Mask
S1	VLAN 1	10.10.10.2	255.255.255.0
PC1	NIC	10.10.10.10	255.255.255.0
PC2	NIC	10.10.10.11	255.255.255.0

Scenario

The network administrator asked you to configure a new switch. In this activity, you will use a list of requirements to configure the new switch with initial settings, SSH, and port security.

Requirements

- Configure **S1** with the following initial settings:
  - Hostname
  - Banner that includes the word **warning**
  - Console port login and password **cisco**
  - Encrypted enable password of **class**
  - Encrypt plain text passwords
  - Management interface addressing
- Configure SSH to secure remote access with the following settings:
  - Domain name of **cisco.com**
  - RSA key-pair parameters to support SSH version 2
  - Set SSH version 2
  - User **admin** with secret password **ccna**
  - VTY lines only accept SSH connections and use local login for authentication
- 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 disable ports.

Script

```
enable
config t
service password-encryption
!
hostname S1
!
enable secret class
!
ip ssh version 2
ip domain-name cisco.com
!
username admin secret ccna
!
crypto key generate rsa
1024

interface range FastEthernet0/1 - 2
 switchport mode access
 switchport port-security
 switchport port-security maximum 2
 switchport port-security mac-address sticky
!
interface range FastEthernet0/3 - 24 , g1/1 - 2
 shutdown
!
interface Vlan1
 ip address 10.10.10.2 255.255.255.0
 no shutdown
!
banner motd #Warning, unauthorized access is prohibited#
!
line con 0
 password cisco
 login
!
line vty 0 15
```

```
 login local
 transport input ssh
!
end
```