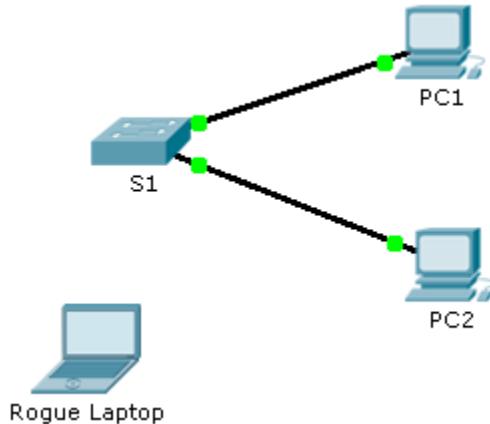


Packet Tracer - Configuring Switch Port Security

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
Rogue Laptop	NIC	10.10.10.12	255.255.255.0

Objective

Part 1: Configure Port Security

Part 2: Verify Port Security

Background

In this activity, you will configure and verify port security on a switch. Port security allows you to restrict a port's ingress traffic by limiting the MAC addresses that are allowed to send traffic into the port.

Part 1: Configure Port Security

- a. Access the command line for **S1** and enable port security on Fast Ethernet ports 0/1 and 0/2.
- b. Set the maximum so that only one device can access the Fast Ethernet ports 0/1 and 0/2.
- c. Secure the ports so that the MAC address of a device is dynamically learned and added to the running configuration.
- d. Set the violation so that the Fast Ethernet ports 0/1 and 0/2 are not disabled when a violation occurs, but packets are dropped from an unknown source.
- e. Disable all the remaining unused ports. Hint: Use the **range** keyword to apply this configuration to all the ports simultaneously.

Part 2: Verify Port Security

- a. From **PC1**, ping **PC2**.
- b. Verify port security is enabled and the MAC addresses of **PC1** and **PC2** were added to the running configuration.
- c. Attach **Rogue Laptop** to any unused switch port and notice that the link lights are red.
- d. Enable the port and verify that **Rogue Laptop** can ping **PC1** and **PC2**. After verification, shut down the port connected to **Rogue Laptop**.
- e. Disconnect **PC2** and connect **Rogue Laptop** to **PC2**'s port. Verify that **Rogue Laptop** is unable to ping **PC1**.
- f. Display the port security violations for the port **Rogue Laptop** is connected to.
- g. Disconnect **Rogue Laptop** and reconnect **PC2**. Verify **PC2** can ping **PC1**.
- h. Why is **PC2** able to ping **PC1**, but the **Rogue Laptop** is not?