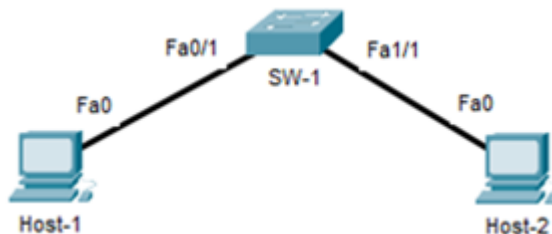


# Port Security

## Lab Summary

Enable port security on switch ports and maximum number of connections feature.

**Figure 1** Lab Topology



## Lab Configuration

Start Packet Tracer File: **port security.pkt**

Click on SW-1 icon and select *CLI* folder.

Step 1: Enter global configuration mode

```
SW-1> enable  
SW-1# configure terminal
```

Step 2: Enable port security on switch port Fa0/1 (host-1)

```
SW-1(config)# interface fastethernet0/1  
SW-1(config-if)# switchport mode access  
SW-1(config-if)# switchport access vlan 10  
SW-1(config-if)# switchport port-security  
SW-1(config-if)# switchport port-security mac-address sticky
```

Step 3: Enable port security on switch port Fa1/1 (host-2)

```
SW-1(config)# interface fastethernet1/1  
SW-1(config-if)# switchport mode access  
SW-1(config-if)# switchport access vlan 10  
SW-1(config-if)# switchport port-security  
SW-1(config-if)# switchport port-security mac-address sticky
```

Step 4: Configure a maximum of 2 connections allowed on Fa1/1 (host-2)

```
SW-1(config-if)# switchport port-security maximum 2  
SW-1(config-if)# end  
SW-1# copy running-config startup-config
```

## Step 5: Verify Lab

Verify port security configuration and operational status for host-1 and host-2:

SW-1# **show running-config**

SW-1# **show port-security interface fastethernet0/1**

<b>Port Security</b>	<b>: Enabled</b>
<b>Port Status</b>	<b>: Secure-up</b>
Violation Mode	: Shutdown
Aging Time	: 0 mins
Aging Type	: Absolute
SecureStatic Address Aging	: Disabled
<b>Maximum MAC Addresses</b>	<b>: 1</b>
Total MAC Addresses	: 0
Configured MAC Addresses	: 0
Sticky MAC Addresses	: 0
Last Source Address: Vlan	: 0000.0000.0000:0
Security Violation Count	: 0

SW-1# **show port-security interface fastethernet1/1**

<b>Port Security</b>	<b>: Enabled</b>
<b>Port Status</b>	<b>: Secure-up</b>
Violation Mode	: Shutdown
Aging Time	: 0 mins
Aging Type	: Absolute
SecureStatic Address Aging	: Disabled
<b>Maximum MAC Addresses</b>	<b>: 2</b>
Total MAC Addresses	: 0
Configured MAC Addresses	: 0
Sticky MAC Addresses	: 0
Last Source Address: Vlan	: 0000.0000.0000:0
Security Violation Count	: 0