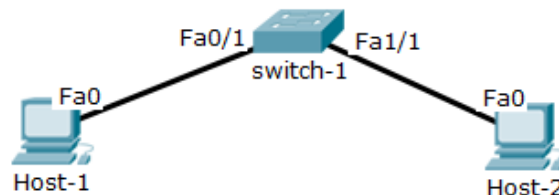


Port Security

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**

Click on the *switch-1* icon and select the *CLI* folder. Hit the <enter> key for user mode prompt (>).

Step 1: Enter global configuration mode

```
switch-1> enable  
Password: cisco  
switch-1# configure terminal
```

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

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

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

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

Step 4: Configure a maximum of two connections that are allowed on interface Fa0/1 (host-1)

```
switch-1(config)# interface fastethernet0/1
switch-1(config-if)# switchport port-security maximum 2
switch-1(config-if)# end
switch-1# copy running-config startup-config
```

Step 5: Verify Lab

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

```
switch-1# show running-config
switch-1# show port-security interface fastethernet0/1
```

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

```
switch-1# show port-security interface fastethernet1/1
```

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