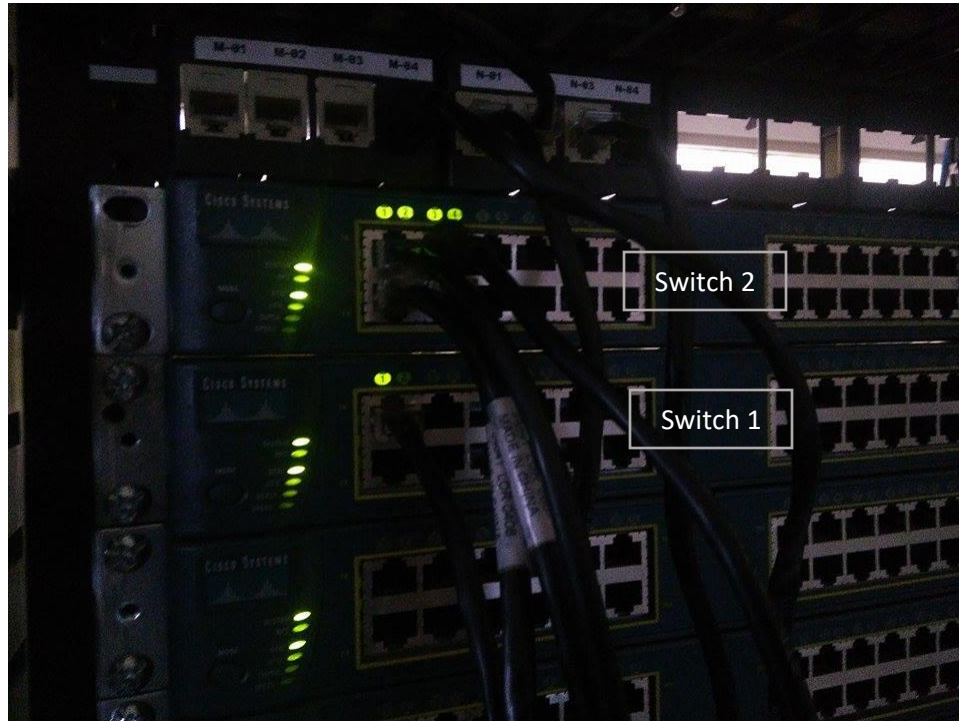
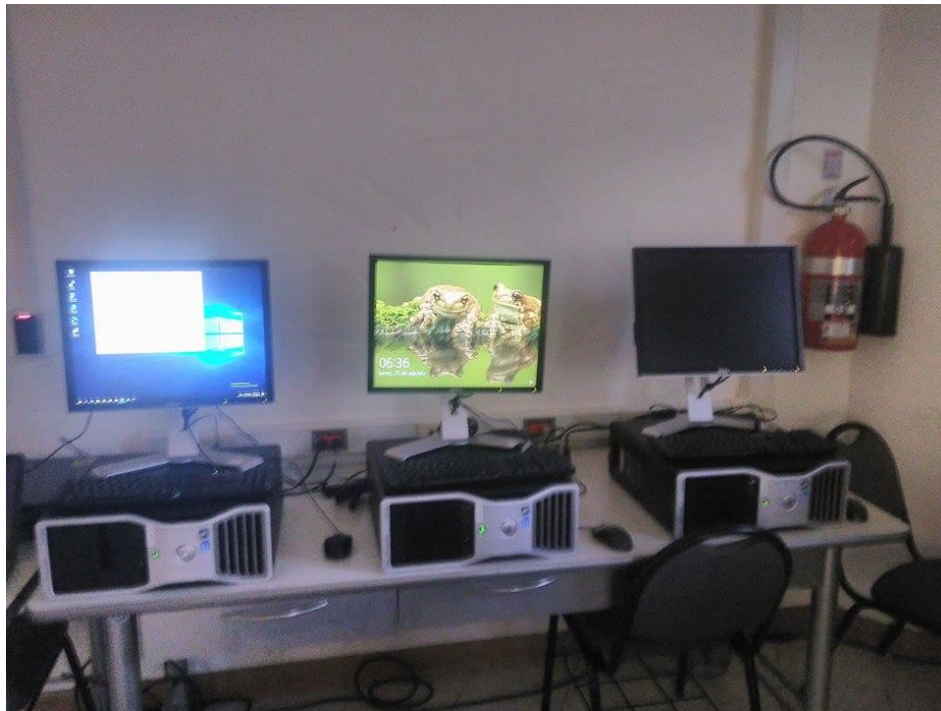


Práctica de Laboratorio #1

1. Foto de la Topología armada





3 hosts utilizados en la práctica.

2. Show mac address-table con las 2 mac address permitidas.

```
Switch1#sh mac-address-table int f0/1
Mac Address Table
-----
Vlan    Mac Address      Type        Ports
-----
1       0012.d9e3.a201   DYNAMIC     Fa0/1
1       bc30.5bd0.4ecb   DYNAMIC     Fa0/1
Total Mac Addresses for this criterion: 2
Switch1#
```

```
All    0180.c200.000d   STATIC      CPU
All    0180.c200.000e   STATIC      CPU
All    0180.c200.000f   STATIC      CPU
All    0180.c200.0010   STATIC      CPU
1      0012.d9e3.a201   DYNAMIC     Fa0/1
1      bc30.5bd0.4ecb   DYNAMIC     Fa0/1
Total Mac Addresses for this criterion: 49
Switch1#
```


3. Resumen del port-security antes y despues de la violación.

Antes de la violación:

```
Switch1# show
Switch1# account
0:39: %SYS-5-CONFIG_I: Configured from console by consoleinterfaces fa0/1
Switch1# show interf
Switch1# channel
Switch1# onconnect
Switch1#
40:40: %LINK-3-UPDOWN: Interface FastEthernet0/1, changed state to up
Switch1# sh port-security
Secure Port    MaxSecureAddr  CurrentAddr  SecurityViolation  Security Action
          (Count)        (Count)
-----
Fa0/1                2             2                0             Shutdown

Total Addresses in System (excluding one mac per port)    : 1
Maximum Addresses limit in System (excluding one mac per port) : 5120
Switch1#
```

Después de la violación:

```
Switch1#
19:31:06: %PM-4-ERR_DISABLE: psecure-violation error detected on Fa0/1, putting
Fa0/1 in err-disable state
19:31:06: %PORT_SECURITY-2-PSECURE_VIOLATION: Security violation occurred, cause
d by MAC address bc30.5be5.0
19:31:07: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, chang
ed state to down
19:31:08: %LINK-3-UPDOWN: Interface FastEthernet0/1, changed state to down
Switch1# show port-security int fa0/1
Port Security          : Enabled
Port Status            : Secure-shutdown
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 : bc30.5be5.091b:1
Security Violation Count : 1
```

```

Switch1#sh port-security
Secure Port  MaxSecureAddr  CurrentAddr  SecurityViolation  Security Action
              (Count)        (Count)        (Count)
-----
Fa0/1                2            2                1          Shutdown

Total Addresses in System (excluding one mac per port) : 1
Max Addresses limit in System (excluding one mac per port) : 5120
Switch1#sh port-security
Secure Port  MaxSecureAddr  CurrentAddr  SecurityViolation  Security Action
              (Count)        (Count)        (Count)
-----
Fa0/1                2            2                1          Shutdown

Total Addresses in System (excluding one mac per port) : 1
Max Addresses limit in System (excluding one mac per port) : 5120
Switch1#

```

Antes y después comparado:

```

Secure Port  MaxSecureAddr  CurrentAddr  SecurityViolation  Security Action
              (Count)        (Count)        (Count)
-----
Fa0/1                2            2                0          Shutdown

Total Addresses in System (excluding one mac per port) : 1
Max Addresses limit in System (excluding one mac per port) : 5120
Switch1#
19:53:14: %PM-4-ERR_DISABLE: psecure-violation error detected on Fa0/1, putting
Fa0/1 in err-disable state
19:53:14: %PORT_SECURITY-2-PSECURE_VIOLATION: Security violation occurred, caused
by MAC address bc30.5be5.091b on port FastEthernet0/1.
19:53:15: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed
state to down
19:53:16: %LINK-3-UPDOWN: Interface FastEthernet0/1, changed state to downshut
t-security
Secure Port  MaxSecureAddr  CurrentAddr  SecurityViolation  Security Action
              (Count)        (Count)        (Count)
-----
Fa0/1                2            2                1          Shutdown

Total Addresses in System (excluding one mac per port) : 1
Max Addresses limit in System (excluding one mac per port) : 5120
Switch1#

```

4. Configuración del switch 1 donde se observe también lo adquirido por el comando Sticky.


```
spanning-tree extend system-id
!
vlan internal allocation policy ascending
!
interface FastEthernet0/1
  switchport mode access
  switchport port-security maximum 2
  switchport port-security
  switchport port-security mac-address sticky
  switchport port-security mac-address sticky 0012.d9e3.a201
  switchport port-security mac-address sticky bc30.5bd0.4ecb
!
interface FastEthernet0/2
  switchport mode dynamic desirable
!
interface FastEthernet0/3
  switchport mode dynamic desirable
!
interface FastEthernet0/4
  switchport mode dynamic desirable
!
interface FastEthernet0/5
  switchport mode dynamic desirable
--More--
```