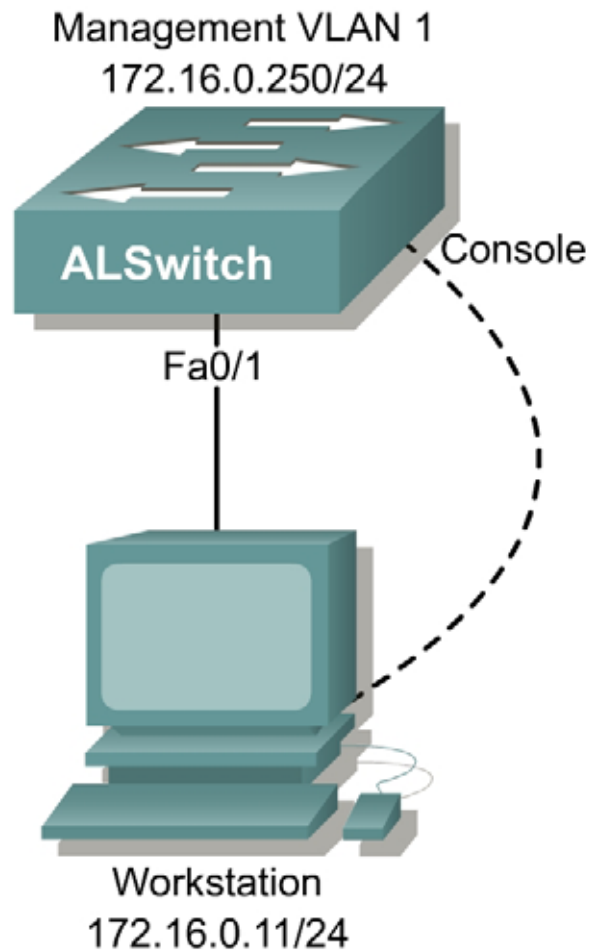


Lab 7.5.3.2 Restricting Web Interface Sessions with Access Lists



Objective

In this lab, students will define and apply access lists to restrict access to the Web interface on the switch.

Equipment

The following equipment is required to complete this lab:

- Catalyst 3550 series or 2950 series switch
- IOS 12.1(11)EA1
- Network-capable workstation with Telnet client

Scenario

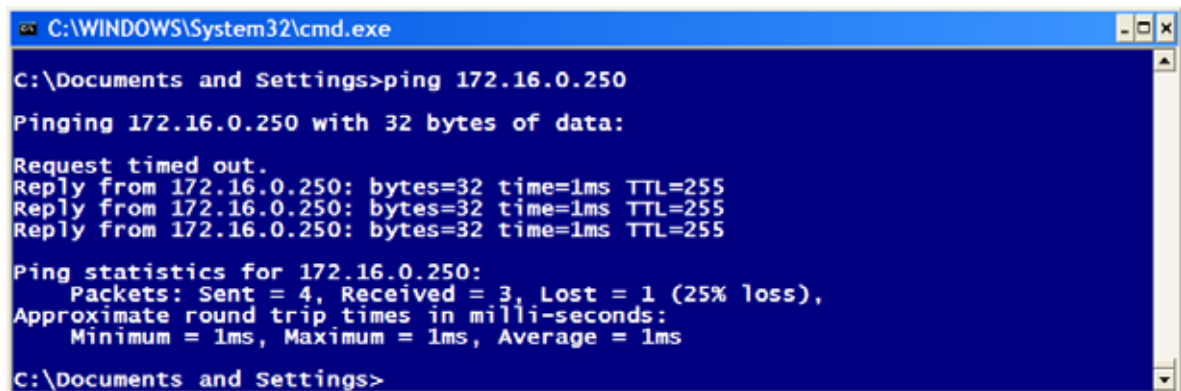
Corporate headquarters has decided to implement a specific switch management terminal in the IT department. Configure the switch to allow Internet browser sessions from a single host but not from other hosts in the same subnet.

Step 1

Build and configure the network according to the diagram. Configure the hostname and the management VLAN with the indicated IP address.

```
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname ALSwitch
ALSwitch(config)#int vlan 1
ALSwitch(config-if)#ip add 172.16.0.250 255.255.255.0
ALSwitch(config-if)#no shut
ALSwitch(config-if)#^Z
ALSwitch#
01:07:25: %SYS-5-CONFIG_I: Configured from console by console
01:07:25: %LINK-3-UPDOWN: Interface Vlan1, changed state to up
01:07:26: %LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed
state to up
ALSwitch#
```

Use the **ping** command to verify the Ethernet connectivity to the switch.

A screenshot of a Windows command prompt window titled "C:\WINDOWS\System32\cmd.exe". The window has a blue background and white text. The user has entered the command "ping 172.16.0.250". The output shows "Pinging 172.16.0.250 with 32 bytes of data:" followed by three successful replies: "Reply from 172.16.0.250: bytes=32 time=1ms TTL=255". Below this, the ping statistics are displayed: "Ping statistics for 172.16.0.250: Packets: Sent = 4, Received = 3, Lost = 1 (25% loss), Approximate round trip times in milli-seconds: Minimum = 1ms, Maximum = 1ms, Average = 1ms". The prompt is currently at "C:\Documents and Settings>".

```
C:\WINDOWS\System32\cmd.exe
C:\Documents and Settings>ping 172.16.0.250
Pinging 172.16.0.250 with 32 bytes of data:
Request timed out.
Reply from 172.16.0.250: bytes=32 time=1ms TTL=255
Reply from 172.16.0.250: bytes=32 time=1ms TTL=255
Reply from 172.16.0.250: bytes=32 time=1ms TTL=255
Ping statistics for 172.16.0.250:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 1ms, Average = 1ms
C:\Documents and Settings>
```

Step 2

Use the global configuration mode to create a standard access list to permit traffic from the workstation at 172.16.0.11. All other traffic must not be permitted.

```
ALSwitch(config)#access-list 99 permit 172.16.0.11
ALSwitch(config)#access-list 99 deny any
```

Step 3

Enable the http server on the switch and apply the access list to the http server process.

```
ALSwitch(config)#ip http server
ALSwitch(config)#ip http access-class 99
ALSwitch(config)#end
```

Note The `ip http server` command should be enabled on the switch by factory default.

Step 4

Verify the switch configuration.

```
ALSwitch#show running-config
Building configuration...

Current configuration : 1050 bytes
!
version 12.1
no service pad
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
!
hostname ALSwitch
!
!
ip http server
ip http access-class 99
```

<Output omitted>

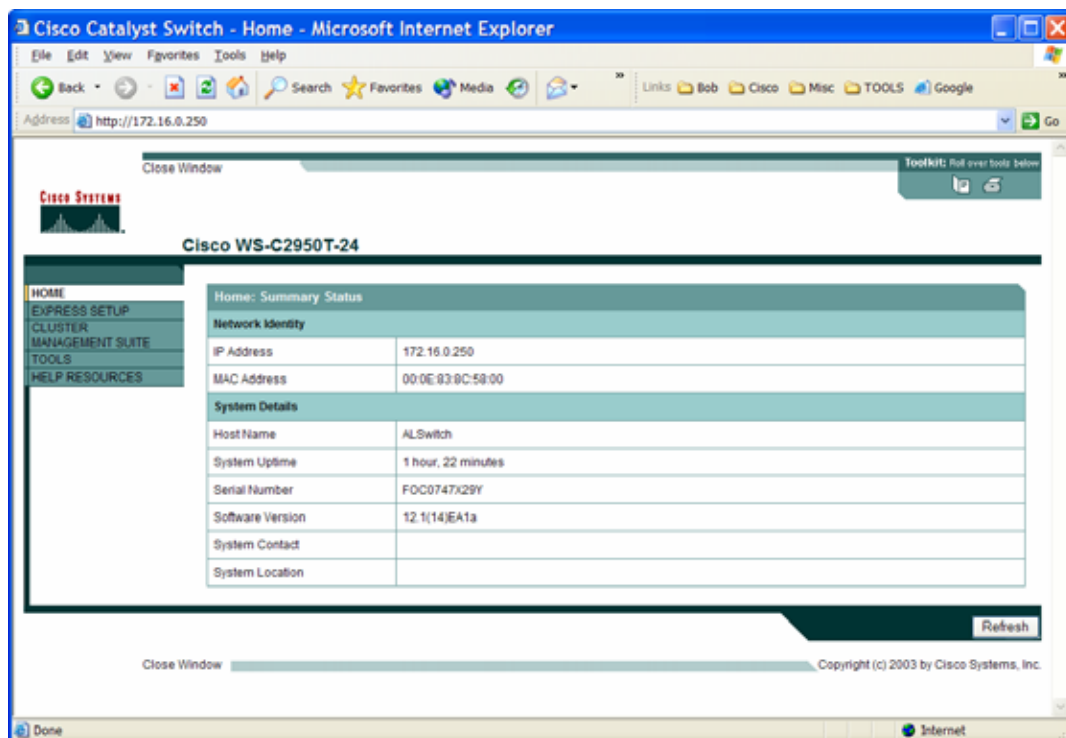
```
!
access-list 99 permit 172.16.0.11
access-list 99 deny any
!
```

<Output omitted>

Step 5

Try to open an Internet browser session from the workstation to the switch.

1. Did it work? Why or why not?



Step 6

Close the Web browser window. Change the IP address of the workstation to 172.16.0.12 / 24. Try to open a new Internet browser session from the workstation to the switch.

1. Did it work? Why or why not?