Deploying Firewall Services with the Cisco Catalyst 6500 FWSM

Length
2 days

Format
Lecture/lab

Track
Design/ Support

Version
3.1

FWSM

Course Description

The Cisco Catalyst 6500 Firewall Services Module (FWSM) provides centralized firewall services under distributed control, allowing firewall services to be easily provisioned for deploying and scaling n-tier applications.

In this course, you will learn how to design effective firewall services solutions with the Cisco Catalyst 6500. You will learn how to implement and deploy the FWSM, how to streamline the provisioning of multiple firewall contexts, and how to deploy the FWSM in high-availability configurations.

Who Should Attend

This course is designed for Systems Engineers and Field Engineers who need to design and implement firewall services using the FWSM.

Recommended Prerequisites

- CCNP certification or equivalent experience
- Familiarity with the architecture of the Catalyst 6500 platform
- Intermediate-level knowledge of firewall concepts, such as NAT and packet inspection

Related Training

- Catalyst 6500 Service Module Integration in the Data Center (CAT6K-SMI)

Learning Objectives

After you complete this course, you will be able to:

- Describe the basic installation and configuration procedures for configuring the FWSM
- Describe the purpose and use of Network Address Translation (NAT) and Port Address Translation (PAT)
- Describe the proper mode for attaching the FWSM to the network
- Configure routed and transparent modes
- Specify the traffic which is allowed to transit the FWSM
- Configure static routes
- Configure Remote Management
- Configure Advanced NAT functions
- Configure AAA services
- Configure deep packet inspection
- Provision and manage multiple contexts in order to provide centralized services under distributed control
- Configure high-availability firewall services using two FWSMs

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Course Outline

Lesson 1: Understanding Firewall Services
Firewall Fundamentals
Explaining Firewall Functions
Overview of the FWSM

Lesson 2: Deploying the Firewall Services Module
FWSM Design Guidelines
Configuring VLANs
Initial Configuration
Configuring FWSM Modes
Configuring Routed Mode
Configuring Transparent Mode
Identifying Traffic with Access Lists
Configuring Static Routes

Lesson 3: Configuring Advanced Features
Using Object Groups
Modular Policy Framework
Configuring IP Routing
Using Advanced NAT
Configuring AAA Services
Using URL Filtering
Using Adaptive Security Device Manager (ASDM)

Lesson 4: Using FWSM with Multiple Contexts
Overview of Multiple Contexts
Packet Classification
Creating Contexts
Resource Management

Lesson 5: Configuring High Availability
Failover Concepts
Failover Monitoring
Configuring Active/Standby Failover
Configuring Active/Active Failover

Lesson 6: FWSM Management
FWSM Architecture and Management
Managing System Access
Managing User Access Levels
Managing Software, Licenses, and Configurations

Lab 1: Implementing Virtualization
Lab 2: Configure FWSM Transparent Mode
Lab 3: Configure FWSM Routed Mode
Lab 4: Configure Access Through the FWSM
Lab 5: Configure ACLs on the FWSM
Lab 6: Configure FWSM Advanced Features
Lab 7: Manage the FWSM
Lab 8: Using Multiple Contexts
Appendix: Configuring High Availability

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