
Deploying Firewall Services with the Catalyst 6500 FWSM

Duration: 2 Days **Course Code: FWSM**

Overview:

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 configuration

This course is delivered as part of the Global Knowledge and Firefly strategic alliance, providing delegates with the latest in Data Center technology.

Target Audience:

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

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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Prerequisites:

Delegates should meet the following 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

Testing and Certification

Recommended as preparation for exam(s):

None Applicable

Follow-on-Courses:

The Following Courses are recommended for further study:

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

Understanding Firewall Services

- Firewall Fundamentals
- Explaining Firewall Functions
- Overview of the FWSM

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

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)

Using FWSM with Multiple Contexts

- Overview of Multiple Contexts
- Packet Classification
- Creating Contexts
- Resource Management
- Configuring High Availability
- Failover Concepts
- Failover Monitoring
- Configuring Active/Standby Failover
- Configuring Active/Active Failover

FWSM Management

- FWSM Architecture and Management
- Managing System Access
- Managing User Access Levels
- Managing Software, Licenses, and Configurations

Course Labs

- Lab 1: Configure the Catalyst 6500 Switch
- 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: Configure Multiple Contexts
- Lab 8: Configure High Availability
- Lab 9: Manage the FWSM

Further Information:

For More information, or to book your course, please call us on 353-1-814 8200

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