



Implementing the Application Control Engine Service Module

BUILDING TRAINING SOLUTIONS
FOR THE IT WORLD

Number of Days: 4

Format: Instructor-Led

Recommended Course Sequence

Knowledge of prerequisites
noted below.

*Course content is subject to change
without notice.*

Course Description:

This course teaches you how to design, deploy, and optimize intelligent network services using the Cisco Application Control Engine (ACE) Service Module for Catalyst 6500 switches. This course covers all of the key features of the ACE 2.0 software, including resource virtualization and management, server load balancing (Layer 2-4 and Layer 7), SSL termination and offload, and security features like application-layer inspection and fix-ups.

Delivery Method:

Instructor led, group-paced, classroom-delivery learning model with structured hands-on activities.

Prerequisites:

This course requires a basic understanding of the following topics:

- TCP / IP protocol
- HTTP and SSL protocols
- N-tier application architecture
- Server load-balancing

At Course Completion:

Upon successful completion of this course, students will be able to:

- Describe IP application delivery with the ACE module
- Describe the structure and function of the Modular Policy CLI statements used to configure ACE features
- Describe the capabilities the ACE module used to load balance IP-based applications
- Identify the layer 7 processing options used to provide advanced application networking
- Create new contexts and resource classes
- Create class maps and serverfarms
- Configure an ACE context load balance traffic flows
- Configure an ACE context to monitor real servers
- Implement fix-ups and inspection
- Describe the ACE features that provide IP application security
- Implement SSL termination
- Configure network address translations
- Describe the high availability features of the ACE module
- Configure an ACE context to perform a variety of functions in an integrated environment
- Troubleshoot common SLB configuration errors

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Course Outline

Lessons:

- Course Introduction
- Introducing the Cisco ACE Module
- Deploying the Cisco ACE Module
- Understanding Modular Policy CLI
- Managing the Cisco ACE Module
- Understanding Security Features
- Configuring Layer 4 Load Balancing
- Configuring Health Monitoring
- Configuring Layer 7 Protocol Processing
- Processing Secure Connections
- Understanding High Availability
- Integrating Multiple Features