



ACE Operations and Configuration (ACEOC) v3.1

Description

Application Control Engine Operations and Configuration is a 4-day, instructor-led, lecture/lab course. In this course, you will learn how to deploy and configure the Cisco Catalyst 6500 Application Control Engine (ACE) module and the Cisco ACE 4710 appliance.

This course covers all of the key features of the ACE module and appliance, including resource virtualization and management, server load balancing (Layer 2-4 and Layer 7), SSL termination and offload, security features like application-layer inspection and fixups, and application optimization features.

Course Objectives

This course includes the following topics:

- Describe IP traffic flows in n-tier web Applications
- Describe the key hardware and software features of the ACE module and appliance
- Design and configure integration of the ACE into the network topology, including bridged, routed, and one-arm modes
- Design and configure multiple ACE contexts to virtualize network services
- Manage allocation of resources to virtual contexts
- Describe the methods used to manage the ACE module and appliance
- Use the Cisco Modular Policy CLI to configure ACE features
- Configure IP application-based security
- Configure Layer 4-7 load balancing
- Configure health monitoring
- Configure Layer 7 protocol processing options
- Configure SSL protocol processing
- Configure the web application acceleration features on the ACE appliance
- Configure the ACE module or appliance for high availability to provide reliable application networking services
- Apply a methodology for designing an end-to-end ACE configuration that integrates multiple feature sets

Who Should Attend

This course is designed for systems engineers and network architects who need to design or deploy server load-balancing solutions using the Cisco ACE module or appliance.

Length of Course

4 days

Course Outline

Module 1: Data Center Application Services Overview
Lesson 1: IP-Based Data Center Applications
Lesson 2: Introducing ACE Family Solutions
Lesson 3: Deploying the ACE Appliance and Service Module
Lab 1: Implementing Virtualization
Module 2: Implementing Server Load Balancing
Lesson 1: Modular Policy CLI
Lesson 2: Managing the ACE Appliance
Lesson 3: Security Features
Lab 2: Using NAT
Lesson 4: Layer 4 Load Balancing
Lab 3: Configuring Server Load Balancing
Lesson 5: Health Monitoring
Lab 4: Implementing Health Monitoring
Lesson 6: Layer 7 Protocol Processing
Lab 5: Configuring Layer 7 Load Balancing
Lab 6: Enabling Sticky Connections
Lab 7: Enabling Protocol Inspection
Lesson 7: Processing Secure
Lab 8: Configuring SSL Termination
Lesson 8: Web Application Acceleration Overview
Lab 9: Integrate Application Acceleration and Optimization Features into the Load Balancing Design
Lesson 9: High Availability
Lesson 10: Integrating Multiple Features
Lab 10: Integrating Multiple Features
Appendix A: ANM SLB Configuration
Appendix B: Troubleshooting Case Study 1
Appendix C: Troubleshooting Case Study 2

Maximum Class Size

12 Students

Class Locations

All APAC locations, subject to suitable venue.

Further Information

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