

# Designing Cisco Data Center Application Services (DCASD) v2.0

5 Days

## Prerequisites

You will gain the most from this course if you have a basic understanding of the following topics:

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

## Course Content

DCASD is a 5-day, instructor-led, lecture / lab course. You will learn how to deploy and configure intelligent network services using the Cisco ACE Products, Catalyst 6500 Application Control Engine (ACE) 4710 . This course covers all of the key features of the ACE products, 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 fixups. The focus is on enabling the student to properly position the ACE products in the network for optimizing data center components and network resources.

## Course Objectives

After completing this course, the student will be able to:

- Describe IP application delivery with the ACE module.
- Describe the configuration tasks necessary to successfully deploy an ACE module.
- Describe the structure and function of the Modular Policy CLI statements used to configure ACE features.
- Describe the capabilities and configuration of the ACE features used to provide load balancing of IP-based applications.
- Identify the layer 7 processing options used to provide advanced application networking.
- Describe ACE support for SSL protocol processing.
- Describe the ACE features that provide IP application-based security.
- Describe the high-availability features of the ACE module which are used to provide reliable application networking services.
- Describe a methodology used to design and configure multiple ACE features.

## Course Outline

Module 1: Data Center Application Services Overview.

- Lesson 1: IP-Based Data Center Applications
- Lesson 2: Data Center Application Architecture

- Lesson 3: Deploying the ACE Appliance and Service Module

#### Module 2: Designing Server Load Balancing Solutions.

- Lesson 1: Modular Policy CLI
- Lesson 2: Managing the ACE Appliance and Service Module
- Lesson 3: Security Features
- Lesson 4: Layer 4 Load Balancing
- Lesson 5: Health Monitoring
- Lesson 6: Layer 7 Protocol Processing
- Lesson 7: Processing Secure Connections
- Lesson 8: Migrating From CSS and CSM

#### Module 3: Designing Web Application Acceleration Solutions.

- Lesson 1: Web Application Acceleration Overview
- Lesson 2: Deploying Application Acceleration and Optimization

#### Module 4: Designing Site-to-Site Load Balancing Solutions.

- Lesson 1: Deploying the GSS
- Lesson 2: Managing the GSS
- Lesson 3: Designing Global Server Load Balancing

#### Module 5: Optimizing the DCAS Solution.

- Lesson 1: High Availability
- Lesson 2: WAN Optimization
- Lesson 3: Designing Application Services

#### **Who Should Attend**

- Channel Partner / Reseller
- Customer
- Employee