
Implementing Cisco Data Center Application Services

Duration: 5 Days **Course Code: DCASI**

Overview:

This is an instructor-led, lecture / lab course that teaches you how to design, deploy, and optimize intelligent network services using the Cisco Application Control Engine (ACE) Appliance, Service Module v2.0 and GSS. 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 fixups.

Target Audience:

This course is designed for Network Administrators and Field Engineers responsible for the implementation and troubleshooting of Cisco ACE-based solutions.

Objectives:

- To be able to describe IP application delivery with the ACE module.
 - To be able to describe the structure and function of the Modular Policy CLI statements used to configure ACE features.
 - To be able to describe the capabilities the ACE module used to load balance IP-based applications.
 - To be able to identify the layer 7 processing options used to provide advanced application networking.
 - To be able to create new contexts and resource classes.
 - To be able to create class maps and server farms.
 - To be able to configure an ACE context to load balance traffic flows.
 - To be able to configure an ACE context to monitor real servers.
 - To be able to implement fixups and inspection.
 - To be able to describe the ACE features that provide IP application security.
 - To be able to implement SSL termination.
 - To be able to configure network address translations.
 - To be able to describe the high availability features of the ACE module.
 - To be able to configure an ACE context to perform a variety of functions in an integrated environment.
 - To be able to troubleshoot common SLB configuration errors.
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Prerequisites:

Attendees should have the following skills:

- Familiarity with TCP / IP protocols
- Knowledge of HTTP and SSL protocols
- Basic understanding of N-tier application architecture
- Basic understanding of Server load-balancing
- CCNA or equivalent knowledge is recommended.

Testing and Certification

Recommended as preparation for exam:

- 642-975 - DCASI
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Content:

Module 1: Data Center Application Services Overview.

- IP-Based Data Center Applications
- Introducing ACE Family Solutions
- Deploying the ACE Appliance and Service Module

Module 2: Implementing Server Load Balancing.

- Modular Policy CLI
- Managing the ACE Appliance and Service Module
- Security Features
- Layer 4 Load Balancing
- Health Monitoring
- Layer 7 Protocol Processing
- Processing Secure Connections
- Migrating From CSS and CSM
- Web Application Acceleration Overview
- Integrating Multiple Features

Module 3: Implementing Site-to-Site Load Balancing.

- Deploying the GSS
- Managing the GSS
- Implementing Global Server Load Balancing

Module 4: Redundancy and Troubleshooting.

- High Availability

Troubleshooting Application Services

Labs:

- Lab 1-1: Upgrading and Installing Licenses
- Lab 1-2: Implementing Virtualisation
- Lab 2-1: Implementing Security Features
- Lab 2-2: Configuring Server Load Balancing
- Lab 2-3: Implementing Health Monitoring
- Lab 2-4: Configuring Layer 7 Load Balancing
- Lab 2-5: Enabling Sticky Connections
- Lab 2-6: Enabling Protocol Inspection
- Lab 2-7: Configuring SSL Termination
- Lab 2-8: Enabling HTTP Optimizations
- Lab 3-1: Implementing Global Server Load Balancing
- Lab 4-1: Challenge Lab: Implementing Data Center Application Services

Additional Information:

This course is required for the Cisco Data Center Application Services Design Specialist Specialisation, and for those delegates looking to achieve the CiscoChannel Partner Data Center Accreditation.

Further Information:

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

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