



Implementing the Cisco Unified Computing System v3.0 (DCUCI)

Description

The Cisco Unified Computing System is designed to improve IT responsiveness to rapidly changing business demands. UCS enables IT to improve utilization of computing resources through support for increased workload density, and accelerates the delivery of new services simply, reliably, and securely, through end-to-end provisioning and migration support for both virtualized and non-virtualized environments.

This 5-day hands-on course focuses on UCS deployment and operations. You will learn how to configure and manage UCS servers with consolidated I/O networking for LAN and SAN connectivity, and how to virtualize server properties to enable simple and rapid mobility of server OS images between physical servers. You will practice configuring fault tolerance, implementing a multi-tenant management model, backing up and restoring system configurations, and using the built-in monitoring and troubleshooting tools in UCS Manager.

Course Objectives

After completing this course, students should be able to:

- Explain how UCS addresses key problems in Data Centre server environments
- Describe the UCS system architecture
- Identify UCS hardware components and options
- Perform the key operational tasks required to deploy a Cisco Unified Computing System
- Configure physical and logical Unified Fabric connectivity
- Define and implement the Basic Opt-In and Logical Server management models
- Configure system-level fault tolerance
- Implement a multi-tenant management model using Role-Based Access Control
- Perform system upgrades
- Back up and restore system configurations
- Monitor system events and use the built in troubleshooting tools

Course Outline

- Module 1: Introduction to UCS
Lesson 1: Data Centre Server Trends
Lesson 2: The Cisco Unified Computing System
- Module 2: UCS Architecture and Components
Lesson 1: Cisco UCS Hardware Components
Lesson 2: Architectural and Feature Overview

- Module 3: UCS Connectivity
Lesson 1: Unified Connectivity Overview
Lesson 2: Start-up and Shutdown Procedures
Lesson 3: User Interfaces
Lesson 4: Upgrading Software
- Module 4: UCS Manager
Lesson 1: UCS Manager Fundamentals
Lesson 2: Role Based Access Control
- Module 5: Server Connectivity
Lesson 1: Server LAN Connectivity
Lesson 2: Server SAN Connectivity
- Module 6: Implementation of Server Resources
Lesson 1: The Basic Opt-In Model
Lesson 2: The Logical Server Model
- Module 7: Integrating Operating Systems
Lesson 1: Operating System Installation Methods
Lesson 2: Operating System Specifics
- Module 8: UCS Management
Lesson 1: Backup and Restore
Lesson 2: Managing High Availability
- Module 9: Monitoring, Diagnostics, and Troubleshooting
Lesson 1: Monitoring System Events
Lesson 2: Collecting Diagnostic Information
- Module 10: UCS System Design Guidelines
Lesson 1: Defining Customer Requirements
Lesson 2: UCS Use Cases

Labs

Initial Start-up and Network Configuration RBAC Configuration
Configuring UCS in a Rack Mounted Paradigm
Configuring UCS in a Logical Server Paradigm
Installing Operating Systems
Backup and Restore CAM Configurations
High Availability Configuration
Monitoring, Diagnostics, and Troubleshooting



Who Should Attend

This course provides in-depth technical training for system engineers, network engineers, and field engineers who need to deploy, configure, and manage the Cisco Unified Computing System.

Recommended pre-requisites

- Some server administration experience
- Basic knowledge of LAN and SAN concepts

Length of Course

5 Days.

Maximum Class Size

12 Students

Class Locations

All APAC locations, subject to suitable venue.

Further Information

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