

Implementing Cisco Data Center Unified Computing (DCUCI)

Duration 5 Days

COURSE CONTENT

The focus of the Implementing Cisco Data Center Unified Computing (DCUCI) skills building course is on deploying, securing, operating, and maintaining the Cisco Unified Computing System (UCS) B-Series Blade Servers and UCS C-Series Rack Servers for use in data centers. This hands-on course covers configuring and managing Cisco UCS servers using unified I/O networking for LAN and SAN connectivity, virtualizing server hardware identifiers to enable rapid recovery of server operating system images, implementing automation for Cisco UCS, configuring fault tolerance, implementing role-based access control (RBAC), backing up and restoring system configurations, and using the monitoring and troubleshooting tools in Cisco UCS Manager and Cisco Integrated Management Controller (IMC). You'll master the professional-level skills and technologies needed to implement Cisco data center unified computing infrastructure, including unified computing implementation maintenance and operations, automation, security, and storage.

Upon completion of this course, you will be able to:

- Describe Cisco UCS server form factors and Cisco UCS Connectivity
- Configure identity abstraction and service profile templates
- Implement iSCSI, FCoE, and Fiber Channel port channels
- Implement role-based access control (RBAC)
- Implement external authentication providers
- Implementing key management
- Implement Cisco UCS firmware updates, Cisco UCS backups, and monitoring
- Deploy Cisco UCS Central and use it to add a Cisco UCS Manager domain, manage resources centrally, and create all required pools and templates to deploy a service profile.
- Implement Cisco UCS Director and Cisco Integrated Management Controller (Cisco IMC) Supervisor
- Compare scripting options for Cisco UCS Manager

PREREQUISITES

It is recommended that a learner has the following knowledge and skills before attending this course:

- Understanding of server system design and architecture
- Familiarity with Ethernet and TCP/IP networking
- Familiarity with SANs
- Familiarity with Fibre Channel protocol
- Understanding of Cisco enterprise data center architecture
- Familiarity with hypervisor technologies (such as VMware)

WHO SHOULD ATTEND

- Network Designer
- Network Administrator
- Network Engineer
- System Engineer
- Consulting Systems Engineer
- Technical Solutions Architect
- Resellers

COURSE OUTLINE

Module 1: Cisco Unified Computing System Implementation

- Lesson 1: Describing Cisco UCS Server Form Factors
- Lesson 2: Describing Cisco UCS Connectivity
- Lesson 3: Configuring Identity Abstraction
- Lesson 4: Configuring Service Profile Templates

Module 2: SAN Storage Implementation for Cisco Unified Computing System

- Lesson 1: Implementing iSCSI
- Lesson 2: Implementing Fibre Channel
- Lesson 3: Implementing FCoE

Module 3: Security Implementation for Cisco Unified Computing System

- Lesson 1: Implementing Role-Based Access Control
- Lesson 2: Implementing External Authentication Providers
- Lesson 3: Implementing Key Management

Module 4: Operations and Maintenance for Cisco Unified Computing System

- Lesson 1: Implementing Cisco UCS Firmware Updates
- Lesson 2: Implementing Cisco UCS Backups
- Lesson 3: Implementing Monitoring

Module 5: Cisco Unified Computing System Automation

- Lesson 1: Implementing Cisco UCS Central
- Lesson 2: Implementing Cisco UCS Director and Cisco IMC Supervisor
- Lesson 3: Comparing Scripting Options for Cisco UCS Manager