Configuring Cisco Unified Computing System (DCCUCS) v1.0

What you'll learn in this course

The **Configuring Cisco Unified Computing System (DCCUCS)** v1.0 shows you how to deploy, secure, operate, and maintain Cisco Unified Computing System™ (Cisco UCS®) B-series blade servers, Cisco UCS C-Series, and S-Series rack servers for use in data centers. You will learn how to implement management and orchestration software for Cisco UCS. You will gain hands-on practice configuring and implementing key features of Cisco UCS, Cisco UCS Director, Cisco UCS Manager and Cisco Intersight™.

Course duration

- Instructor-led training: 3 days in the classroom with hands-on lab practice
- Virtual instructor-led training: 3 days of web-based classes with hands-on lab practice
- E-learning: Equivalent of 3 days of content with videos, hands-on practice, and challenges

How you'll benefit

This course will help you:

- Acquire in-depth experience implementing and maintaining Cisco UCS servers to help you accelerate and provide robust UCS deployments
- Gain knowledge and skills through Cisco's unique combination of lessons and hands-on practice using enterprise-grade Cisco learning technologies, data center equipment, and software

Who should enroll

- Cisco integrators and partners
- Consulting systems engineers
- Network administrators
- Network engineers
- Network managers
- Server administrators
- Systems engineers
- Storage administrators
- Technical solutions architects

How to enroll

E-learning

- To buy a single e-learning license, visit the Cisco Learning Network Store.
- For more than one license, or a learning library subscription, contact us at learning-bdm@cisco.com.

Instructor-led training

- Find a class at the Cisco Learning Locator.
- Arrange training at your location through Cisco Private Group Training.

Technology areas

- Data center

Course details

Objectives

After taking this course, you should be able to:

- Describe and implement SAN on Cisco UCS
- Describe Cisco UCS policies for service profiles
- Describe and implement Role-Based Access Control (RBAC) on Cisco UCS
- Describe and implement external authentication providers on Cisco UCS Manager
- Describe and implement key management on Cisco UCS Manager
- Describe Cisco UCS Director
- Describe and implement Cisco Intersight
- Describe the scripting options for Cisco UCS Manager
- Describe and implement monitoring on Cisco UCS Manager

Prerequisites

To fully benefit from this course, you should have the following knowledge and skills:

- General knowledge of servers
- Routing and switching knowledge
- Storage area networking knowledge
- Server virtualization knowledge

The following courses are recommended to help you meet these prerequisites:

- **Implementing and Administering Cisco Solutions (CCNA)**
- **Implementing and Operating Cisco Data Center Core Technologies (DCCOR)**
- **Introducing Cisco Unified Computing System (DCIUCS)**
- **Understanding Cisco Data Center Foundations (DCFNDU)**

Outline

- Implementing Cisco UCS Storage Area Network (SAN)
  - SAN Introduction

- Cisco UCS Fabric Interconnect Fibre Channels modes
- Named VSANs
- Cisco UCS Fibre Channel and FCoE Storage Connectivity

- Describing Cisco UCS Policies for Service Profiles
  - Storage Policies and Profiles
  - Basic Input Output System (BIOS) Policies
  - Boot Policy
  - Intelligent Platform Management Interface (IPMI) Policies
  - Scrub Policies
  - Maintenance Policies
- Implementing RBAC on Cisco UCS
  - RBAC in Cisco UCS
  - Users, Roles, and Privileges
  - Functions of Organizations and Locales
  - Effective Rights of a User
- Implementing External Authentication Providers
  - Options for External Authentication Providers
- Implementing Key Management on Cisco UCS Manager
  - Public Key Infrastructure
- Implementing Cisco UCS Director
  - Cisco UCS Director Overview
  - Policies, Virtual Data Centers, and Catalogs
  - Cisco UCS Director Virtualization Support
  - Managing Compute with Cisco UCS Director
  - Cisco UCS Manager Orchestration
  - Self-Service Portal
  - Reporting and Monitoring in Cisco UCS Director
- Implementing Cisco Intersight
  - Cisco UCS Director Overview
  - Important Features of Cisco Intersight
- Describing the Scripting Options for Cisco UCS Manager
  - Cisco UCS Manager XML API
  - Cisco UCS Management Information Tree
  - Managed Object Browser
  - Cisco UCS PowerTool
  - Cisco UCS Python Software Development Kit (SDK)
- Describing the Scripting Options for Cisco UCS Manager
  - Cisco UCS Manager XML API
  - Cisco UCS Management Information Tree

    - Managed Object Browser
    - Cisco UCS Manager PowerTool
    - Cisco UCS Python SDK
- Implementing Monitoring on Cisco UCS Manager
    - Logging Sources in Cisco UCS Manager
    - Port Monitoring Capabilities of Cisco UCS Manager
    - Simple Network Management Protocol (SNMP) Security Ramifications
    - Cisco UCS Manager Call Home Feature

Lab outline

- Configure Pod-Specific Device Aliases
- Configure Zoning
- Configure VSANs in Cisco UCS Manager
- Configure Unified Ports on Cisco UCS Fabric Interconnects
- Install and Boot VMware Elastic Sky X Integrated (ESXi) on Cisco UCS from the FCoE Logical Unit Number (LUN) via FCoE
- Configure RBAC
- Configure Cisco UCS Manager to Authenticate Users via Open Lightweight Directory Access Protocol (OpenLDAP)
- Configure a Trusted Point and Key Ring in Cisco UCS Manager
- Configure Cisco UCS Manager Using Scripting
- Implement Syslog and Call Home