

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 key features of Cisco UCS, Cisco UCS Director, and Cisco UCS Manager; implementing UCS management software including Cisco UCS Manager and Cisco Intersight™; and more.

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:

- Gain 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

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

How to enroll

- For instructor-led training, visit the [Cisco Learning Locator](#).
- For private group training, visit [Cisco Private Group Training](#).

Technology areas

- Data center

Course details

Objectives

After taking this course, you should be able to:

- Describe and implement Fibre Channel, zoning, and N-Port Virtualization (NPV) features on Cisco UCS
- Describe and implement Fibre Channel over Ethernet (FCoE) on Cisco UCS
- Describe Cisco UCS policies for service profiles
- Describe Cisco Adapter Fabric Extender (FEX) and Single Root I/O Virtualization
- 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

These Cisco courses are recommended to help you meet these prerequisites:

- **Implementing and Administering Cisco Solutions (CCNA) v1.0**
- **Understanding Cisco Data Center Foundations (DCFNDU) v1.0**
- **Implementing and Operating Cisco Data Center Core Technologies (DCCOR)**
- **Introducing Cisco Unified Computing System (DCIUCS) v1.0**
- **Introducing Cisco Data Center Networking (DCICN) v6.2**
- **Introducing Cisco Data Center Technologies (DCICT) v6.2**
- **Interconnecting Cisco Networking Devices: Accelerated (CCNAX) or Interconnecting Cisco Networking Devices Part 1 (ICND1) and Interconnecting Cisco Networking Devices Part 2 (ICND2)**

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
- Describing Cisco Adapter FEX and Single Root I/O Virtualization
 - Cisco FEX Overview
 - Cisco Adapter FEX
 - Single Root I/O Virtualization
- 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)
- Implementing Key Management on Cisco UCS Manager
 - Public Key Infrastructure
- Implementing Cisco Intersight
 - Cisco Intersight 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 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 with Cisco Intersight
- Configure Cisco UCS Manager Using Scripting
- Implement Syslog and Call Home




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