

Configuring Cisco Unified Computing System

Duration: 180 Days **Course Code: DCCUCS** **Version: 1.0** **Delivery Method: Elearning**
(Self-paced)

Overview:

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

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.

This course is worth 24 Continuing Education (CE) Credits.

e-Learning

Interactive self-paced content that provides flexibility in terms of pace, place and time to suit individuals and organisations. These resources also consist of online books, educational podcasts and vodcasts, and video-based learning.

Target Audience:

Engineers involved in deploying or maintaining a Cisco Unified Computing System (UCS) solution

Objectives:

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| <ul style="list-style-type: none"> ■ After taking this course, you should be able to: ■ Describe and implement Fibre Channel, zoning, and NPV features on Cisco UCS ■ Describe and implement FCoE on Cisco UCS ■ Describe Cisco UCS policies for service profiles ■ Describe Cisco Adapter FEX and Single Root I/O Virtualization ■ Describe and implement RBAC on Cisco UCS | <ul style="list-style-type: none"> ■ Describe and implement external authentication providers on Cisco UCS Manager ■ Describe and implement key management on Cisco UCS Manager ■ Describe and implement Cisco UCS Director ■ Describe and implement Cisco Intersight ■ Describe the scripting options for Cisco UCS Manager ■ Describe and implement monitoring on Cisco UCS Manager |
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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
- CCNA - Implementing and Administering Cisco Solutions
- DCFNDU - Understanding Cisco Data Center Foundations
- DCIUCS - Introducing Cisco Unified Computing System

Testing and Certification

Recommended as preparation for the following exams:

- This course is not aligned to a specific exam but will help in preparation for the Cisco CCNP Data Center Certifications

Follow-on-Courses:

- DCIT - Troubleshooting Cisco Data Center Infrastructure
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Content:

Implementing Fibre Channel on Cisco UCS

- Fibre Channel Port Channel Functionality
- Purpose of Zoning
- Cisco NPV and Fibre Channel Switching Mode

Implementing FCoE on Cisco UCS

- FCoE Topologies
- FCoE Initialization Protocol
- FCoE Communication
- Cisco Data Center Bridging
- SAN Boot Requirements

Describing Cisco UCS Policies for Service Profiles

- Storage Policies
- BIOS Policies
- Boot Policy
- 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
- Install Cisco UCS Director
- Virtual and Physical Accounts
- Policies, Virtual Data Centers, and Catalogs
- Self-Service Portal
- Cisco UCS Director with VMware
- Managing VMs
- Compute Management with Cisco UCS Director
- Reporting and Monitoring in Cisco UCS Director

Implementing Cisco Intersight

- Cisco Intersight Overview
- Key Features of Cisco Intersight

Describing the Scripting Options for Cisco UCS

- 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
- SNMP Security Ramifications
- Cisco UCS Manager Call Home Feature
- Describe the 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 ESXi on Cisco UCS from the FCoE LUN
 - Configure RBAC
 - Configure Cisco UCS Manager to Authenticate Users via OpenLDAP
 - Configure a Trusted Point and Key Ring in Cisco UCS Manager
 - Install Cisco UCS Director
 - Configure Cisco UCS Director
 - Discover Infrastructure with Cisco UCS Director
 - Examine the Cisco UCS Director GUI
 - Design Services in Cisco UCS Director
 - Configure Cisco UCS with Cisco Intersight
 - Configure Cisco UCS Manager Using Scripting
 - Implement Syslog and Call Home
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Further Information:

For More information, or to book your course, please call us on 00 971 4 446 4987

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