

## Configuring Cisco Unified Computing System

Duration: 3 Days    Course Code: DCCUCS    Version: 1.0

### Overview:

The Configuring Cisco Unified Computing System (DCCUCS) 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, 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. Prepare for the new CCNP Data Center and CCIE Data Center certifications.

### Target Audience:

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

### Objectives:

- After completing 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
- 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

### Prerequisites:

Attendees should meet the following prerequisites:

- General knowledge of servers - **DCICN and DCICT recommended**
- Routing and switching knowledge - **CCNA , CCNAX or ICND1 and ICND2 recommended**
- Storage area networking knowledge **DCICN and DCICT recommended**
- Server virtualization knowledge - **VSICM recommended**
- CCNA - Implementing and Administering Cisco Solutions
- DCFNDU - Understanding Cisco Data Center Foundations
- DCIUUS - Introducing Cisco Unified Computing System

### Testing and Certification

Recommended as preparation for the following exams:

- This course is not linked to a specific exam however it will help in providing knowledge for the new Cisco CCNP Certification track.

## Follow-on-Courses:

*The following courses are recommended for further study:*

- **DCCOR** - Implementing and Operating Cisco Data Center Core Technologies
- **DCIT** - Troubleshooting Cisco Data Center Infrastructure
- **DCIT** - Troubleshooting Cisco Data Center Infrastructure

## 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

### Labs

- 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

## Further Information:

For More information, or to book your course, please call us on 0800/84.009

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