

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, that will be available beginning February 24, 2020

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 external authentication providers on Cisco UCS Manager |
| ■ Describe and implement Fibre Channel, zoning, and NPV features on Cisco UCS | ■ Describe and implement key management on Cisco UCS Manager |
| ■ Describe and implement FCoE on Cisco UCS | ■ Describe and implement Cisco UCS Director |
| ■ Describe Cisco UCS policies for service profiles | ■ Describe and implement Cisco Intersight |
| ■ Describe Cisco Adapter FEX and Single Root I/O Virtualization | ■ Describe the scripting options for Cisco UCS Manager |
| ■ Describe and implement RBAC on Cisco UCS | ■ 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
- DCICN - Introducing Cisco Data Center Networking
- DCICT - Introducing Cisco Data Center Technologies
- DCIUCS - 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

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 353-1-814 8200

info@globalknowledge.ie

www.globalknowledge.com/en-ie/

Global Knowledge, 3rd Floor Jervis House, Millennium Walkway, Dublin 1