Configuring Cisco Unified Computing System

Duration: 3 Days   **Course Code: DCCUCS**   **Version: 1.0**   **Delivery Method: Virtual Learning**

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.

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

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

Objectives:

- **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

- 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:

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:

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

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

info@globalknowledge.co.uk

www.globalknowledge.com/en-gb/

Global Knowledge, Mulberry Business Park, Fishponds Road, Wokingham Berkshire RG41 2GY UK