

Introducing Cisco Unified Computing System

Duration: 2 Days **Course Code: DCIUCS** **Version: 1.0** **Delivery Method: Virtual Learning**

Overview:

The Introducing Cisco Unified Computing System (DCIUCS) is an introductory course that shows you how to deploy, secure, operate, and maintain the Cisco Unified Computing system (Cisco UCS®) B-Series blade servers, Cisco UCS C-Series and S-Series rack servers, and Cisco HyperFlex™ product family for use in data centers. You will gain hands-on practice on basic Cisco UCS server configuration, performing backup and restore activities, and more.

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:

Individuals who need to understand how to install, configure and manage Cisco UCS B-Series blade servers and C-Series and S-Series rack servers in a virtualized data center environment.

Objectives:

- **After completing this course you should be able to:**
- Describe Cisco UCS server hardware
- Describe Cisco UCS connectivity
- Describe the Cisco HyperFlex Data Platform, its data writing and reading processes, and data optimization
- Describe and configure Cisco UCS service profiles
- Describe and configure Cisco UCS service profile templates
- Describe and implement Internet Small Computer Systems Interface (iSCSI) on Cisco UCS
- Describe and implement Cisco UCS firmware updates
- Describe and implement Cisco UCS backups

Prerequisites:

Attendees should meet the following prerequisites:

- General knowledge of servers
- Routing and switching
- Storage area networking
- Server virtualization
- CCNA - Implementing and Administering Cisco Solutions
- DCFNDU - Understanding Cisco Data Center Foundations
- DCCOR - Implementing and Operating Cisco Data Center Core Technologies

Testing and Certification

Recommended as preparation for the following exams:

- There are no exams currently aligned to this course.

Follow-on-Courses:

- DCCUCS - Configuring Cisco Unified Computing System

Content:

Describing Cisco UCS Server Hardware

- Cisco UCS B-Series Blade Servers
- Cisco UCS C-Series Rack Servers
- Cisco UCS S-Series Rack Servers
- Cisco Virtual Interface Cards
- Hyperconvergence Overview
- Cisco HyperFlex HX-Series Servers

Describing Cisco UCS Connectivity

- Cisco UCS Fabric Interconnect
- Cisco UCS B-Series Connectivity
- Cisco UCS C-Series Connectivity
- Cisco UCS S-Series Connectivity
- Cisco HyperFlex Connectivity Architecture
- Cisco HyperFlex Edge Connectivity
- Cisco UCS Fabric Interconnect Ethernet End-Host Mode Compared to Switching Mode
- Cisco UCS Fabric Interconnect Uplink Pinning
- Cisco UCS C-Series Integration

Describing the Cisco HyperFlex HX Data Platform

- Cisco HyperFlex HX Data Platform Software
- Writing Data to Cisco HyperFlex HX Data Platform
- Reading Data from Cisco HyperFlex HX Data Platform
- Data Optimization in Cisco HyperFlex HX Data Platform

Configuring Cisco UCS Service Profiles

- Portability Issue with Nonabstracted Identities
- Cisco UCS Service Profile
- Identity Pools
- Server Pools
- IP Pools

Configuring Cisco UCS Service Profile Templates

- Service Profile Templates

Implementing iSCSI on Cisco UCS

- iSCSI Addressing
- iSCSI Support in Cisco UCS

Implementing Cisco UCS Firmware Updates

- Update Cisco UCS C-Series Server Firmware
- Download Tasks for the Infrastructure Image
- Download Tasks for Cisco UCS B-Series Firmware Packages
- Best Practices for Updating Firmware in Cisco UCS Manager
- Firmware Upgrades Using Auto Install
- Capability Catalog Updates
- Host Firmware Packages
- Driver Updates for Operating Systems and Hypervisors

Implementing Cisco UCS Backups

- Compare Backup Options in Cisco UCS Manager
- Compare Two Import Types
- Policy Backup

Labs:

- Lab 1: Explore Cisco UCS Manager GUI
- Lab 2: Configure Server and Uplink Ports
- Lab 3: Configure VLANs
- Lab 4: Configure Basic Identity Pools
- Lab 5: Configure a Cisco UCS Service Profile Using Pools
- Lab 6: Configure a Service Profile Template
- Lab 7: Configure a iSCSI Service Profile on Cisco UCS
- Lab 8: Perform Backup and Restore Activities

Further Information:

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

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