Introducing Cisco Unified Computing System

Duration: 2 Days   Course Code: DCIUCS   Version: 1.0

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.

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 - Configurung 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

- 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 0800/84.009

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