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Learning Style: Virtual Classroom

Technology: Cisco

Difficulty: Intermediate

Course Duration: 5 Days

Configuring Data Center Unified Computing v3 (DCUCS)



About this course:

The Configuring Data Center Unified Computing course is designed to familiarize data center engineers, architects and Cisco partners with the Cisco UCS B-series and C-series products. This course prepares individuals for implementing and maintaining Cisco UCS hardware with a strong emphasis on best practices. The Configuring Data Center Unified Computing course also addresses relevant

additional features added by Version 2.1 Cisco UCS Software Release.

This course is worth 40 Credits in the Continuing Education Program

Course Objective:

After you complete this course you will be able to :

- Describe the Cisco UCS architecture
- Describe Cisco UCS LAN connectivity configuration
- Describe Cisco UCS B-Series SAN connectivity configuration
- Describe how to configure and manage the servers within Cisco UCS
- Describe how to configure Cisco UCS virtualization
- Describe how to configure Cisco UCS administration
- Describe Cisco UCS C-Series features

Audience:

- This course is designed specifically for individuals involved in the deployment and maintenance of a UCS system.

Prerequisite:

Attendees should meet the following prerequisites:

- General knowledge of servers
- Routing and switching knowledge - DCUFI recommended
- Storage area networking knowledge
- Server virtualization knowledge

Recommended prerequisites:

- DCICN - Introducing Cisco Data Center Networking
- DCICT - Introducing Cisco Data Center Technologies v 6
- DCMDS - Configuring Cisco MDS 9000 Switches v 3.1
- VSICM - VMware vSphere: Install, Configure, Manage [V7.0]

Course Outline:

Describing Cisco UCS Architecture

- Cisco UCS B-Series Blade Server Hardware Components
- Describing the Cisco UCS User Interfaces
- Configuring Cisco UCS B-Series Physical Connectivity and High Availability
- Using RBAC and Organizations

Cisco UCS LAN Connectivity

- Configuring Compute Node LAN Connectivity

- Configuring LAN Identity and Resource Pools
- Configuring Compute Node LAN Policies

Cisco UCS SAN Connectivity

- Configuring Compute Node SAN Connectivity
- Configuring Advanced Compute Node SAN Connectivity
- Configuring SAN Identity and Resource Pools

Configuring Cisco UCS B-Series Servers

- Configuring Server Identity and Resource Pools
- Configuring Server Policies
- Configuring Templates and Service Profiles
- Managing Service Profiles
- Configuring Logical Service Profiles that Boot from iSCSI

Configuring Cisco UCS Virtualization

- Configuring Cisco UCS VM-FEX
- Configuring Cisco UCS SR-IOV
- Configuring Cisco UCS VM-FEX Integration for Microsoft Windows Server 2012 Hyper-V
- Configuring the Cisco UCS VM-FEX for KVM SR-IOV

Cisco UCS Administration

- Backing Up and Restoring the Cisco UCS Manager Database
- Managing and Upgrading Cisco UCS B-Series Firmware
- Using Cisco UCS Management Tools

Cisco UCS C-Series Features

- Describing Cisco UCS C-Series Servers
- Describing Cisco USC C-Series Server Connectivity Options
- Using Cisco UCS C-Series IMC Discovery
- Upgrading Cisco UCS C-Series Firmware

Labs:

- Lab 1-1: Initial Cisco UCS Configuration
- Lab 1-2: Explore the Cisco UCS Manager GUI
- Lab 1-3: Configure RBAC
- Lab 2-1: Configure System Related Policies and Uplink Port Properties
- Lab 2-2: Configure LAN Related Pools and Policies
- Lab 3-1: Configure SAN Connectivity
- Lab 3-2: Configure SAN Identity Pools and Templates
- Lab 4-1: Configure Server-Related Features and Renaming a Service Profile
- Lab 4-2: Configure a Service Profile that Boots from iSCSI LUN

- Lab 5-1: Configure VM-FEX Passthrough SwitchingC-49Lab 6-1: Back Up and Import the System Configuration
- Lab 7-1: Configure Server Settings with the Integrated Management Controller GUI

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