

Cisco® Configuring Cisco® Data Center Unified Computing System v3.0 (DCUCS)

Course Overview

This is a 5-day class

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

Course Objectives

Upon completing this course, you will be able to meet the following objectives: -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

Course Outline

1 Cisco UCS Architecture

Describing Cisco UCS B-Series Blade Server Hardware Components
Describing Cisco UCS User Interfaces
Configuring Cisco UCS B-Series Physical Connectivity and High Availability
Using RBAC and Organizations
Lab 1-1: Initial Cisco UCS Configuration
Lab 1-2: Explore the Cisco UCS Manager GUI
Lab 1-3: Configure RBAC

2 Cisco UCS LAN Connectivity

Configuring Compute Node LAN Connectivity
Configuring LAN Identity and Resource Pools
Configuring Compute Node LAN Policies
Lab 2-1: Configure System Related Policies and Uplink Port Properties
Lab 2-2: Configure LAN Related Pools and Policies

3 Cisco UCS SAN Connectivity

Configuring Compute Node SAN Connectivity
Configuring Advanced Compute Node SAN Connectivity
Configuring SAN Identity and Resource Pools
Lab 3-1: Configure SAN Connectivity
Lab 3-2: Configure SAN Identity Pools and Templates

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4 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
- Lab 4-1: Configure Server-Related Features and Renaming a Service Profile
- Lab 4-2: Configure a Service Profile that Boots from iSCSI LUN

5 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
- Lab 5-1: Configure VM-FEX Passthrough Switching

6 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
- Lab 6-1: Back Up and Import the System Configuration

7 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
- Lab 7-1: Configure Server Settings with the Integrated Management Controller GUI