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Introducing Cisco Unified Computing System (DCIUCS) V1.0

WHERE GREAT TRAINING HAPPENS EVERYDAY!

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6210 Central Ave, Portage IN

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Course Duration

2 Days

Course Price

$2,095.00
21 CLCs

Methods of Delivery

In-Person ILT
Virtual ILT
Onsite ILT

About this Class

The Introducing Cisco Unified Computing System (DCIUCS) V1.0 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.

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How you will benefit

This class will help you:

- Learn how to implement and maintain Cisco UCS servers
- 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
- Prepare for data center job roles

Why Attend with Current Technologies CLC

- Our Instructors are the top 10% rated by Cisco
- Our Lab has a dedicated 1 Gig Fiber Connection for our Labs
- Our Labs run up to Date Code for all our courses

Who Should Attend

The job roles best suited to the material in this course are:

- Server Administrators
- Network Engineers
- Systems Engineers
- Consulting Systems Engineers
- Technical Solutions Architects
- Network Administrators
- Storage Administrators
- Network Managers
- Sales Engineers
- Cisco Integrators and Partners

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Objectives

After taking 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

To fully benefit from this course, you should have the following knowledge and skills:

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

Course Outline

Module 1: 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

Module 2: 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

Module 3: 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

Introducing Cisco Unified Computing System (DCIUCS) V1.0

Course Outline

Module 4: Configuring Cisco UCS Service Profiles
- Portability Issue with Nonabstracted Identities
- Cisco UCS Service Profile
- Identity Pools
- Server Pools
- IP Pools

Module 5: Configuring Cisco UCS Service Profile Templates
- Service Profile Templates

Module 6: Implementing iSCSI on Cisco UCS
- iSCSI Addressing
- iSCSI Support in Cisco UCS

Module 7: 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

Module 8: Implementing Cisco UCS Backups
- Compare Backup Options in Cisco UCS Manager
- Compare Two Import Types
- Policy Backup

Introducing Cisco Unified Computing System (DCIUCS) V1.0

Lab Outline

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 an iSCSI Service Profile on Cisco UCS

Lab 8: Perform Backup and Restore Activities