IMPLEMENTING CISCO DATA CENTER UNIFIED COMPUTING (DCUCI) V6.1

Course Code: 4869

Learn how to install, configure, manage, and troubleshoot Cisco Unified Computing System B-Series blade servers and C-Series rack servers in a virtualized data center environment.

This course includes Class Training Exclusives

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In this course, you will prepare for the Cisco CCNP Data Center certification exam and for professional-level data center roles. The focus of this skills-building course is on deploying, securing, operating, and maintaining the Cisco Unified Computing System (UCS) and UCS C-Series Rack Servers for use in data centers. The extensively hands-on course covers configuring and managing Cisco UCS servers using unified I/O networking for LAN and SAN connectivity, virtualizing server hardware identifiers to enable rapid recovery of server operating system images, automating UCS deployments using UCS Central Software and Cisco Integrated Management Controller (IMC) Supervisor, configuring fault tolerance, implementing role-based access control (RBAC), backing up and restoring system configurations, and using the monitoring and troubleshooting tools in Cisco UCS Manager and Cisco IMC.

What You'll Learn

- Install the UCS B-Series system out of the box and deploy service profiles using pooled identities and
- service profile templates
- Configure the UCS B-Series system for deployments using iSCSI and configure B- and C-Series

- systems for deployments using Fibre Channel for regular data access and booting
- Configure and implement security mechanisms such as RBAC with Organizations and Locales, LDAP
- integration, trusted points, and key rings
- Configure and implement monitoring with syslog and Call Home
- Manage UCS Manager domains with UCS Central, manage multiple C-Series servers with Cisco IMC
- Supervisor, and interact with the UCS Manager XML API

Who Needs to Attend

- System engineers and technicians who implement Cisco UCS B-Series Blade Servers and Cisco UCS C-Series Rack-Mount Servers
- Data center (LAN, SAN, Server) administrators, managers, designers, and engineers

Prerequisites

- Understanding of server system design and architecture
- Familiarity with Ethernet and TCP/IP networking
- Familiarity with SANs
- Familiarity with Fibre Channel protocol
- Understanding of Cisco Enterprise Data Center Architecture
- Familiarity with hypervisor technologies (such as VMware)

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CLASSROOM LIVE	$4,395 USD	5 days

Classroom Live Outline

1. Cisco Unified Computing System Implementation

- Cisco UCS Server Form Factors
- Cisco Unified Computing System Connectivity
- Configuring Identity Abstraction
- Configuring Service Profile Templates

2. SAN Storage Implementation for Cisco Unified Computing System

- Implementing iSCSI
- Implementing Fibre Channel Port Channels
- Implementing FCoE

3. Security Implementation for Cisco Unified Computing System

- Implementing Role-Based Access Control
- Implementing External Authentication Providers
- Implementing Key Management

4. Operations and Maintenance for Cisco Unified Computing System

- Implementing Cisco UCS Firmware Updates
- Implementing Cisco UCS Backups
- Implementing Monitoring

5. Cisco Unified Computing System Automation

- Implementing Cisco UCS Central
- Implementing Cisco UCS Director
- Comparing Scripting Options for Cisco UCS Manager

Classroom Live Labs

Lab 1: Access the Remote Lab Environment

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VIRTUAL CLASSROOM LIVE	$4,395 USD	5 days

Virtual Classroom Live Outline

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Virtual Classroom Live Labs

Lab 1: Access the Remote Lab Environment

Lab 2: Provision Cisco UCS Fabric Interconnect Cluster

Lab 3: Configure Server and Uplink Ports

Lab 4: Configure VLANs

Lab 5: Configure a Cisco UCS Service Profile Using Hardware Identities

Lab 6: Configure Basic Identity Pools

Lab 7: Configure a Cisco UCS Service Profile Using Pools

Lab 8: Configure a Service Profile Template

Lab 9: Configure an iSCSI Service Profile

Lab 10: Configure Pod-Specific Device Aliases

Lab 11: Configure Zoning

Lab 12: Configure VSANs in Cisco UCS Manager

Lab 13: Configure Unified Ports on UCS Fabric Interconnects

Lab 14: Install and Boot VMware ESXi on Cisco UCS C-Series Servers from SAN LUN

Lab 15: Install and Boot VMware ESXi on Cisco UCS B-Series Servers from SAN LUN

Lab 16: Configure Organizations and Locales

Lab 17: Configure Job-Specific Roles

Lab 18: Configure Cisco UCS Manager to Authenticate Users with Microsoft Active Directory

Lab 19: Configure a Trusted Point and KeyRing in Cisco UCS Manager

Lab 20: Perform Backup and Restore Activities

Lab 21: Implement Syslog

Lab 22: Deploy and Use Cisco UCS Central

Lab 23: Deploy and Use Cisco IMC Supervisor

Lab 24: Configure Cisco UCS Manager with XML API and Cisco UCS PowerTools

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PRIVATE GROUP TRAINING	5 days

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