DCUCI v5.0 Data Center Unified Computing Implementation

In this course, you will learn to rack installations, provision server hardware, and direct operating systems or hypervisor installations. Significant content is devoted to management, maintenance, and troubleshooting. You will review Cisco data center virtualization solutions and how to execute a virtualization solution based on a detailed implementation plan.

The course follows an actual implementation workflow providing hands-on practice by configuring the most recent Cisco Unified Computing System (UCS) solutions, including Cisco UCS B-Series, Cisco UCS C-Series, VMware's vSphere and Cisco Nexus 1000V product families.

This newly updated course designed the hands-on labs around UCS Manager v2.0, vSphere v5.0 and v5.1, and VM-FEX and VM-FEX with Pass-Thru Switching. Current and prospective data center administrators will gain a better understanding of Cisco UCS B-Series and C-Series components, including systems architecture, installation, and administration. You will focus on the individual components of a complete solution and the installation, configuration, and maintenance of a Cisco UCS installation in various types of environments. Hands-on configuration labs throughout the course will reinforce the information given in lecture as you build a complete solution.

SKU: VPND-DCUCI

Class Duration: 5 Days Associated

Certifications: Cisco Data Center Unified Computing Support Specialist, CCNP Data Center

What you'll learn

- Explain how Cisco Unified Computing System addresses key management challenges in data center server environments.
- Describe the Cisco UCS B-Series and C-Series system architectures, hardware components, and field-installable options.
- Explain how to connect to and manage Cisco Unified Computing System components.
- Configure Cisco UCS B-Series blade servers with Cisco UCS Manager.
- Configure Cisco UCS C-Series blade servers with Cisco IMC.
- Explain the connectivity requirements for the Cisco UCS platform.
- Configure server profiles to allocate physical resources.
- Configure maintenance tasks.
- Configure high availability at the LAN, SAN, and server NIC level.
- Identify common deployment scenarios for Cisco Unified Computing System.
- Troubleshoot common LAN and SAN connectivity issues.
- Troubleshoot service profile issues.
- Configure Cisco Nexus 1000V in a VMware vSphere 4.1 environment.
- Configure Cisco UCS Manager to support VMware PTS.
- Configure Cisco UCS Manager to support VMware DirectPath I/O.

Who Should 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

- CCNA and DCUFI knowledge and experience up to CCNA Data Center
- CCNA DC equivalent knowledge and experience

- Familiarity with server operating systems, hypervisor, and virtualization
- Implementing Cisco Storage Networking Solutions (ICSNS)
- Familiarity with ethernet and TCP/IP networking, SANs, Fibre Channel Protocol (FCP), and hypervisor technologies (VMware vSphere, Microsoft Hyper-V, Citrix Xen)

Follow-On Courses

- DCUFD â€' Designing Cisco Data Center Unified Fabric v3.0
- DCUCT â€' Troubleshooting Cisco Data Center Unified Computing v5.0
- DCUFT â€' Troubleshooting Cisco Data Center Unified Fabric v5.0

Course Outline

- Course Introduction
- Mod 1 Review of Data Center Unified Computing Implementation E-Learning
- Mod 2 Installation of Cisco UCS C-Series Rack-Mount Servers
- Mod 3 Cisco IMC Configuration
- Mod 4 Cisco UCS B-Series Hardware and Management
- Mod 5 Cisco UCS Connectivity Configuration and Management
- Mod 6 Server Resources Implementation
- Mod 7 Virtual Server Networking
- Mod 8 Cisco Unified Computing System Management and Maintenance