

Cisco Data Center Unified Computing Design (DCUCD)

Course Content: The course content is primarily focused on the Cisco Unified Computing System (UCS) and to a lesser degree also on Cisco Nexus 1000v Virtual Switch, Cisco Nexus 7000 Series Switched, Cisco Catalyst 6500 Switches, Cisco MDS Series Switches and VMware vSphere 4. The course starts with an overview of Data Center Computing solutions and then explains the design aspects of the Cisco Data Center Unified Computing Solution.

Course Objectives: The goal of the DCUCD curriculum is to enable customers to build scalable, reliable, and intelligent Cisco Data Center Unified Computing solutions using Cisco UCS, Cisco Nexus 7000 Series Switches, Cisco Catalyst 6500 Series Switches, Cisco MDS Series Switches, Cisco Nexus 1000v Virtual Switch, Cisco Data Center Network Manager (Cisco DCNM), Cisco Fabric Manager, VMware vSphere 4, Linux, and Microsoft Windows operating system.

Upon completion of this course, the student should be able to:

- Understand Cisco Unified Computing solutions and identify server architecture.
- Identify and understand Cisco UCS components, management, system connectivity, high availability, and size Cisco Unified Computing System.
- Understand and design Cisco UCS server deployment.
- Identify Cisco Unified Computing solution management aspects.
- Understand and design Cisco Unified Computing network.
- Understand and design Cisco Unified Computing SAN.
- Identify historical performance characteristics, and reconnaissance and analysis tools, and determine aspects affecting the migration plan.
- Identify Cisco UCS deployments and describe solution advantages.
- Understand server virtualization and server virtualization networking.
- Evaluate Cisco Unified Computing solution, understand design success criteria, and determine ROI.

Prerequisites:

The following courses are recommended prerequisites for students attending the Cisco Data Center Unified Design (DCUCD) v3.0 course:

- Designing Cisco Data Center Network Infrastructure (DCNID)
- Designing Cisco Storage Networking Solutions (DCSNS)

The following knowledge and skills are recommended prerequisites for students attending the Cisco Data Center Unified Design (DCUCD) v3.0 course:

- Cisco Data Center Networking Infrastructure Design Specialist (DCNID)
- Cisco Data Center Storage Networking Design Specialist (DCSN)
- VMware vSphere 4 or equivalent experience

Course Outline:

- Understanding Cisco Unified Computing Solutions
- Understanding the Cisco UCS
- Understanding Cisco UCS Server Deployment
- Understanding Cisco Unified Computing Management





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- Understanding the Cisco Unified Computing Network
- Understanding the Cisco Unified Computing SAN
- Understanding Existing Computing Solutions
- Positioning the Cisco Unified Computing System
- Understanding Server Virtualization Networking
- Evaluating Cisco Unified Computing Solutions



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