Cisco Data Center Unified Computing Design

Dauer: 5.00 Tage   Kurscode: DCUCD   Version: 4.0

Kursbeschreibung:

This 5-day course is designed to provide engineers with the knowledge and skills required to choose and design scalable, reliable,intelligent data center unified computing and virtualization solutions. These solutions are based on the Cisco data center product portfolio with a Cisco Unified Computing System (UCS) as a centerpiece integrated with contemporary server virtualization solutions (such as VMware vSphere, Microsoft Hyper-V R2, and Citrix for Cisco Virtualization Experience Infrastructure [VXI]) and operating systems (such as Microsoft Windows and Linux).
Delegates will learn how to evaluate existing data center computing solutions, determine the requirements, and then design the right solution using the Cisco data center unified computing and virtualization portfolio of solutions.
Delegates should ensure they review the required e-learning prior to attendance.

Zielgruppe:

Individuals involved in the design of data centers and partners looking to obtain Channel Partner Data Center Accreditation.

Kursziele:

- **After you complete this course you will be able to:**

- Evaluate the Cisco Unified Computing System solution design process in regards to the contemporary data center challenges, the Cisco Data Center Business Advantage architectural framework, and components

- Use the reconnaissance and analysis tools to assess computing solution performance characteristics and requirements

- Describe the hardware components of the Cisco Unified Computing System and select proper hardware for a given set of requirements

- Describe the basic server deployment model of the Cisco Unified Computing System

- Propose a Cisco Unified Computing System solution management design for a given environment

- Describe the advanced Cisco UCS server deployment model

- Calculate the ROI and TCO for the solution by using the Cisco UCS ROI tool

- Design a migration plan for an existing implementation to a Cisco Unified Computing System solution

Voraussetzungen:

Attendees should meet the following prerequisites:

- Cisco CCDA® Certification: DESGN recommended
- Cisco Data Center Networking Infrastructure Design Specialist Certification: DCUFD recommended
- Cisco Data Center Storage Networking Design Specialist Certification: DCSNS recommended
- Cisco CCNA Data Center **DCICN** and **DCICT** recommended
- Linux or Windows system administration familiarity
- *Introduction to Virtualization (Virt101EL) precourse online training (Links will be provided on confirmation of booking)*

Tests und Zertifizierungen

Recommended preparation for exam:

- **642- 993** - DCUCD (Last day to test 28/02/2013)

This exam is currently required for the Cisco Certified Network Professional Certification for Data Center as well as the Cisco Data Center Unified Computing Design Specialist.

Folgekurse:

The following courses are recommended for further study:

Delegates looking to achieve their CCNP for DC will also require:

- **DCUFI -** Implementing Cisco Data Center Unified Fabric
- **DCUCI-** Implementing Cisco Data Center Unified Computing

Plus

- **DCUCT** - Troubleshooting Cisco Data Center Unified Computing
- **DCUFT** - Troubleshooting Cisco Data Center Unified Fabric

or

- **DCUCD** - Designing Cisco Data Center Unified Computing
- **DCUFD** - Designing Cisco Data Center Unified Fabric

Delegates looking for Cisco Specialist Certifications will also need :

- **DCUCI** - Cisco Data Center UnifiedComputing Support Specialist

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Schulungsinhalt:

Cisco Unified Computing System Solution

- Analyzing Data Center Computing Solutions
- Identifying a Cisco Unified Computing System Solution
- Evaluating Server Deployment Options
- Defining a Cisco Unified Computing System Solution Design

Assess Computing Solution Requirements

- Analyzing Performance Characteristics
- Employing Data Center Reconnaissance and Analysis Tools

Design Cisco Unified Computing System Solution

- Evaluating Cisco UCS C-Series Architecture
- Sizing the Cisco UCS C-Series Solution
- Evaluating Cisco UCS B-Series Archit
- Sizing the Cisco UCS B-Series Solu
- Planning Physical Deployment
- Examining the Cisco UCS Network and Storage
- Designing the Cisco UCS Network and Storage

Design Server Deployment

- Designing Cisco UCS Server Deployment Model

Design Cisco UCS Solution Management

- Examining Cisco UCS Solution Management
- Designing Cisco UCS Solution Management

Design Advanced Server Deployment

- Evaluating Cisco UCS Deployment with Microsoft Hyper-V
- Evaluating Cisco UCS Integration with VMware vSphere
- Evaluating Cisco UCS and Cisco Nexus 1000V Integration with VMware vSphere

Evaluate Cisco Unified Computing System Solutions

- Evaluating Solution Design
- Determining Solution ROI and TCO

Plan Migration to Cisco Unified Computing System Solution

- Designing a Migration Plan

Appendixes

- Appendix A: Determining a Solution for ROI and TCO Using VMware Chargeback

Labs

- Lab 2-1: Analyze the Existing Computing Solution
- Lab 3-1: Size the Small Cisco UCS Solution
- Lab 3-2: Size the Large Cisco UCS Solution
- Lab 3-3: Plan the Physical Deployment
- Lab 5-1: Design the Cisco Unified Computing System Solution Management
- Lab 6-1: Design the Server Deployment for Microsoft Hyper-V
- Lab 6-2: Design the Server Deployment for VMware vSphere
- Lab 6-3: Design the Server Deployment for VMware vSphere with Cisco Nexus 1000V

Hinweis:

Recertification
Cisco professional level certifications are valid for three years.
To recertify, pass ONE of the following before the certification expiration date:Pass any current 642-XXX Professional level exam, or Pass any current CCIE Written Exam, or Pass the current CCDE Written Exam OR current CCDE Practical Exam, or Pass the Cisco Certified Architect (CCAr) interview AND the CCAr board review to extend lower certifications.
Achieving or recertifying any of the certifications above automatically extends your active Associate and Professional level certification(s) up to the point of expiration of the last certification achieved. For more information, access the Cisco About Recertification page.

Weitere Informationen:

Für weitere Informationen oder Buchung kontaktieren Sie uns bitte unter 0800 / 295 26 33

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