

Der Kurs vermittelt Inhalte zum Design von Data Centern unter Verwendung von Cisco Data Center Lösungen und Technologien. Zu den behandelten Themen gehören Netzwerkdesigns mit Virtualisierungstechnologien, Layer-2- und Layer-3-Technologien, Routing-Protokollen und Data Center Interconnects, sowie Storage- und SAN-Designs. Sie lernen Design-Praktiken für die Cisco Unified Computing System™ (Cisco UCS®)-Lösung auf der Basis von Cisco UCS-Servern der B- und C-Serie, Cisco UCS Manager und Cisco Unified Fabric kennen. Zudem werden die Einsatzgebiete von Netzwerkmanagement-Technologien wie Cisco UCS Manager, Cisco Nexus Dashboard Fabric Controller (NDFC) und Cisco UCS Director behandelt.

Kursinhalt

- Describe the Layer 2 forwarding options and protocols used in a data center
- Describe the Layer 3 forwarding options and protocols used in a data center
- Describe the rack design options, traffic patterns, and data center switching layer access, aggregation, and core
- Describe Locator/ID separation protocol
- Design a solution that uses VXLAN for traffic forwarding
- Describe the hardware redundancy options; how to virtualize the network, compute, and storage functions; and virtual networking in the data center
- Describe solutions that use fabric extenders and compare Cisco Adapter FEX with SR-IOV
- Describe security threats and solutions in the data center
- Describe advanced data center security technologies and best practices
- Describe device management and orchestration in the data center
- Describe the storage options for the compute function and the different RAID levels from a high-availability and performance perspective
- Describe Fibre Channel concepts and architecture
- Describe Fibre Channel topologies and industry terms
- Describe FCoE
- Describe security options in the storage network
- Describe the management and automation options for the storage networking infrastructure
- Describe Cisco UCS servers and use cases for various Cisco UCS platforms
- Explain the connectivity options for fabric interconnects for southbound and northbound connections
- Describe the hyperconverged solution and integrated systems
- Describe the systemwide parameters for setting up a Cisco UCS domain
- Describe RBAC and integration with directory servers to control access rights on Cisco UCS Manager
- Describe the pools that may be used in service profiles or service profile templates on Cisco UCS Manager
- Describe the different policies in the service profile
- Describe the Ethernet and Fibre Channel interface policies and additional network technologies
- Describe the advantages of templates and the difference between initial and updated templates
- Describe data center automation tools

E-Book Sie erhalten die englischen Original-Unterlagen als Cisco E-Book. Bei der Cisco Digital Learning Version sind die Inhalte der Kursunterlage stattdessen in die Lernoberfläche integriert.

Zielgruppe

IT Professionals mit fünf bis acht Jahren Erfahrung:

- Data Center Engineers
- Network Designer
- Network Administratoren
- Network Engineers
- Systems Engineers
- Consulting Systems Engineers
- Technical Solutions Architects
- Server Administratoren
- Network Manager
- Cisco Integratoren oder Partner

Voraussetzungen

Sie sollten über folgende Vorkenntnisse verfügen:

- Implementierung von Rechenzentrumsnetzwerken (Local Area Network (LAN) und Storage Area Network (SAN))
- Grundkenntnisse von Storage-Lösungen im Datacenter
- Implementierung von Virtualisierungslösungen im Datacenter
- Implementierung des Cisco Unified Computing-Systems (Cisco UCS)
- Implementierung von Automation und Orchestrierung in Rechenzentren mit Schwerpunkt auf Cisco Application Centric Infrastructure (ACI) und Cisco UCS Director
- Überblick zu Produkten der Cisco Data Center Nexus- und Multilayer Director Switch (MDS)-Familien

Die folgenden Cisco Schulungen können Ihnen helfen, diese Voraussetzungen zu erfüllen:

- Understanding Cisco Data Center Foundations (DCFNDU)
- Implementing and Administering Cisco Networking Technologies (CCNA®)
- Implementing Cisco Data Center Core Technologies (DCCOR)

Kursziel

Dieser Kurs bereitet Sie auf die Prüfung Designing Cisco Data Center Infrastructure vor, die Bestandteil der CCNP Data Center® Zertifizierung ist und zudem zu der Spezialisierung Cisco Certified Specialist - Data Center Design führt.

Bearbeitungszeit

ca. 30 Stunden

Dieser Kurs im Web



Alle tagesaktuellen Informationen und Möglichkeiten zur Bestellung finden Sie unter dem folgenden Link: www.experteach.de/go/DCID

Vormerkung

Sie können auf unserer Website einen Platz kostenlos und unverbindlich für 7 Tage reservieren. Dies geht auch telefonisch unter 06074 4868-0.

Garantierte Kurstermine

Für Ihre Planungssicherheit bieten wir stets eine große Auswahl garantierter Kurstermine an.

Ihr Kurs maßgeschneidert

Diesen Kurs können wir für Ihr Projekt exakt an Ihre Anforderungen anpassen.

Cisco Digital Learning & Cisco U.

Die multimodalen Schulungen der Cisco Digital Learning Library beinhalten referenzgeführte HD-Videos mit hinterlegtem durchsuchbarem Text und Untertiteln, Übungen, Labs und erklärenden Text sowie Grafiken. Das Angebot stellen wir Ihnen über unser Lernportal myExperTeach zur Verfügung. Der Zugriff auf die Kurse steht ab der Freischaltung für einen Zeitraum von sechs Monaten zur Verfügung. Bei Paketen (Cisco U.) beträgt dieser Zeitraum zwölf Monate.

Cisco Digital Learning & Cisco U. Preise zzgl. MwSt.

6 Monate Freischaltung € 1.500,-

Training Preise zzgl. MwSt.

Termine in Deutschland 5 Tage € 3.595,-

Online Training 5 Tage € 3.595,-

Termin/Kursort Kurssprache Deutsch

10.06.-14.06.24 Hamburg 02.12.-06.12.24 Hamburg

10.06.-14.06.24 Online 02.12.-06.12.24 Online

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