Designing Cisco Data Center Unified Fabric v3

Duration: 5 Days   Course Code: DCUFD

Overview:

This 5 day course focuses on the knowledge and skills required to design a data center network architecture using Cisco's high-end switching portfolio, architectural components of Cisco Nexus and Cisco Catalyst switching lines, Cisco IOS and NX-OS software architecture, either as an Ethernet-only data center, or as a data center using unified fabric.Features of these data center class platforms ranging from continuous operation, resiliency, and virtualization to power efficiency and management are also reviewed.
There are a number of service modules and line cards available for the Cisco Catalyst 6500 Series Switches and Cisco ASA 5500 Adaptive Security Appliances and whilst it is not possible to cover all of these in depth, the Cisco Application Networking Services (ANS) portfolio, including ACE module and ACE appliance are covered.

Target Audience:

This course is designed for Network designers and architects, data center network administrators, and system engineers involved in the design and implementaion of a Data Center. This course is also required for Channel Partners looking to achieve Cisco Data Center Architecture

Objectives:

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

- Describe the data center network architecture design basics, challenges, and environmental requirements

- Describe the Cisco data center network equipment

- Explain virtualization principles used in data center networks

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- Explain server virtualization concepts

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- Design data center services and security

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- List data center standards, trends, and sizing guidelines

Prerequisites:

The recommended knowledge and skills that a learner should have to attend this course can be obtained in the following courses:

- Introducing Cisco Data Center Networking (DCICN)
- Introducing Cisco Data Center Technologies (DCICT)

Testing and Certification

Recommended preparation for exam :

- **642-991** - Cisco Data Center Unified Fabric Solutions Design (Exam available 24/10/11)
Delegates looking to achieve the Cisco DataCenter Networking Infrastructure Design Specialist Certification can take the DCNID exam 642-971 exam instead up until the 30/12/11

Follow-on-Courses:

Delegates looking for Knowledge on designing a Data Center with the UCS should consider the DCUCD course

Content:

Data Center Design Fundamentals

- Data Center Overview

- Cisco Data Center Business Advantage
- Designing Data Center Solutions
- Cisco Nexus Series Switches
- Cisco Data Center Security Products
- Cisco Data Center Application Services Products
- Cisco SAN Products
- Cisco Computing, Desktop, and Solution Products
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- Network Virtualization
- Fabric Virtualization
- Data Center Standards and Trends
- Designing Data Center Topologies using FEX
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- Designing Data Center Application Services
- Designing Data Center Security
- Lab 3-1: Explore Cisco Nexus 7000 Series Switch VDC
- Lab 3-2: Explore Fabric Virtualization
- Lab 4-1: Design Data Center Topology with vPC and FEX (Instructor Demonstration)
- Lab 4-2: Design DCI with OTV
- Lab 5-1: Designing Layer 3 High Availability

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Data Center Network Infrastructure

- Cisco Catalyst Series Switches

Data Center Network Virtualization Principles

- Device Virtualization

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Data Center Standards

- Data Center Sizing

Labs

- Lab 2-1: Discover Network Infrastructure Topology (Instructor Demonstration)

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Additional Information:

Cisco Specialist Certifications are valid for two years. To recertify, take and pass the current version of the required exam(s) or pass a current CCIE or CCDE written exam.

Further Information:

For More information, or to book your course, please Email us on:

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