Designing Cisco Data Center Infrastructure (DCID)

Price: 4095

Duration:

Delivery Methods: Virtual

Overview

The Designing Cisco Data Center Infrastructure (DCID) provides training on designing data centers using Cisco data centers solutions and technologies. Topics covered include network designs with virtualization technologies, Layer 2 and Layer 3 technologies and routing protocols, and data center interconnect design options. You'll learn design practices for the Cisco Unified Computing System™ (Cisco UCS®) solution based on Cisco UCS B-Series and C-Series servers, Cisco UCS Manager, and Cisco Unified Fabric, while gaining experience with network management technologies including Cisco UCS Manager, Cisco Data Center Network Manager (DCNM), and Cisco UCS Director. This training also earns you 40 Continuing Education (CE) credits towards recertification.This training helps you prepare to take the exam: 300-610 Designing Cisco Data Center Infrastructure (DCID)

How You'll Benefit

This training will help you:

- Make design choices for optimal data center infrastructure performance, virtualization, security, and automation
- Master the practical and theoretical knowledge necessary to design a scalable, reliable, and intelligent data center based on Cisco technologies
- Qualify for professional-level job roles in the high-demand area of enterprise-class data center environments

Who Should Enroll

IT professionals with five to eight years of experience in these roles:

- Data center engineers
- Network designers
- Network administrators
- Network engineers
- Systems engineers
- Consulting systems engineers
- Technical solutions architects
- Server administrators
- Network managers
- Cisco integrators or partners

Learning Path Objectives

Describe the Layer 2 and 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 Virtual Extensible LAN (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 Fabric Extender (FEX) with single root input/output virtualization (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 Redundant Array of Independent Disks (RAID) levels from a high-availability and performance perspective.

Describe Fibre Channel concepts and architecture.

Describe Fibre Channel topologies and industry terms.

Describe Fibre Channel over Ethernet (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 role-based access control (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

Course Schedule

Date	Time	Price	Options
06/01/2026	09:00 AM - 05:00 PM CT	2,595.00	**Buy Now** **Enroll**

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FAQ

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What is your late policy?

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What happens when I finish my class?

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