
Introducing Cisco Data Center Networking (DCICN)

Durée : 05 jours.

Ref : CI- DCICN

Formateur : certifié

A qui s'adresse cette formation

The primary audience for this course is as follows:

- Network administrators
- Network engineers
- Cisco Integrators/Partners
- Systems engineers

The secondary audience for this course is as follows:

- Network designers
- Network managers
- Consulting systems engineers
- Technical solutions architects

Pré-requis

The learner is expected to have the following skills and knowledge before attending this course:

- Good understanding of networking protocols
- Good understanding of the VMware environment
- Basic computer literacy
- Basic knowledge of Microsoft Windows operating systems
- Basic Internet usage skills

Objectifs

The goal of the course is to give attendees a broad exposure to Cisco Data Center technologies in order to provide entry-level data center personnel with the skills that they require to be successful.

Upon completing this course, the learner will be able to meet these overall objectives:

- Describe Ethernet communication functions and standards
- Describe the OSI and TCP/IP models
- Describe the routing process on Nexus switches
- Compare storage connectivity options in the data center
- Describe the Fibre Channel name server and fabric login (FLOGI) process

Follow On Courses

- [Introducing Cisco Data Center Technologies](#) (DCICT)
- [Implementing Cisco Data Center Unified Computing](#) (DCUCI)
- [Designing Cisco Data Center Infrastructure \(DCID\) 7.0](#) (DCID)
- [Implementing Cisco Data Center Infrastructure](#) (DCII)
- [Troubleshooting Cisco Data Center Infrastructure](#) (DCIT)
- [Implementing Cisco Data Center Virtualization and Automation](#) (DCVAI)

Contenu

Introducing Cisco Data Center Networking (DCICN) v6.0 course is a five-day instructor-led training (ILT) program that introduces students to the primary technologies that are used in the Cisco Data Center. The introductory level of knowledge that is taught in this course is targeted for individuals who will perform only the more basic configuration tasks. The course lab exercises focus on viewing configurations, with some configuration changes made by the student.

Module 1: Network Protocols and Host-to-Host Communication

- Lesson 1: Describing Ethernet Functions and Standards
- Lesson 2: Describing Ethernet Hardware and Switching
- Lesson 3: Describing OSI and TCP/IP Models
- Lesson 4: Describing IPv4 and IPv6 Network Layer Addressing
- Lesson 5: Describing Packet Delivery on a Hierarchical Network
- Lesson 6: Describing the TCP/IP Transport Layer

Module 2: Basic Data Center Networking Concepts

- Lesson 1: Describing Data Center Network Architectures
- Lesson 2: Describing the Cisco Nexus Family and NX-OS
- Lesson 3: Implementing VLANs and Trunks

- Lesson 4: Describing Redundant Switched Topologies

Module 3: Advanced Data Center Networking Concepts

- Lesson 1: Describing the Routing Process on Nexus Switches
- Lesson 2: Describing Routing Protocols on Nexus Switches
- Lesson 3: Describing Layer 3 First Hop Redundancy
- Lesson 4: Describing AAA on Nexus Switches
- Lesson 5: Describing ACLs on Nexus Switches

Module 4: Basic Data Center Storage

- Lesson 1: Describing Storage Connectivity Options in the Data Center
- Lesson 2: Describing Fibre Channel Storage Networking
- Lesson 3: Describing VSANs

Module 5: Advanced Data Center Storage

- Lesson 1: Describing Communication Between Initiator and Target
- Lesson 2: Describing Fibre Channel Zone Types and Their Uses
- Lesson 3: Describing Cisco NPV Mode and NPIV
- Lesson 4: Describing Data Center Ethernet Enhancements
- Lesson 5: Describing Fibre Channel over Ethernet

Module 6: Cisco UCS Architecture

- Lesson 1: Describing Cisco UCS Server Hardware Components
- Lesson 2: Cisco UCS Physical Connectivity for a Fabric Interconnect Cluster
- Lesson 3: Describing the Cisco UCS Manager Interfaces