

CI – DCNI-2

Implementing Cisco Data Center Network Infrastructure 2 v3.0

Summary

Duration

5 Days

Vendor

Cisco

Category

Data Center



Introduction

Cisco Data Center Networking Infrastructure-2 (DCNI-2) version 3.0 is a 5-day hands-on course that replaces the DCNI-2 course with 3-1/2 days of actual Nexus 7000 and 1-1/2 days of Nexus 2000 & 5000 lecture and hands on labs. DCNI-2 Nexus teaches you how to implement an enterprise Data Center routing and switching infrastructure with the next-generation Cisco Nexus product family and includes an overview of the FCoE.

This course provides a technical overview of the Nexus platform architecture, deployment, and operations, including Virtual Device Contexts, Layer 2, QoS, and security. You will explore the features of NX-OS and the Nexus platform by performing hands-on labs using a solution level topology.

Prerequisites

CCNP

Course Objectives

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

- Describe the key features of the Nexus 7010 chassis.
- Describe Supervisor Engine and Line Card Module features.
- Describe the key features of the Nexus 7010 power supplies and fan -cooling system.
- Describe the Connectivity Management Processor.
- Describe the basic architecture of NX-OS.
- Explain NX-OS Process Recovery.
- Explain NX-OS Supervisor Redundancy.
- Explain how the Nexus 5000 functions within SAN and LAN environments.
- Describe the Fibre Channel over Ethernet (FCoE) protocol.

Course Outlines

Module 1: Using the Cisco Nexus 7000 in Data Center Networks

- Lesson 1: Understanding the Cisco Nexus 7000 Series Switches
- Lesson 2: Overview of the Cisco Nexus 7000
- Lesson 3: Introducing to Virtual Device Contexts in the Cisco Nexus 7000
- Lesson 4: Managing the Cisco Nexus 7000
- Lesson 5: Cisco Nexus 7000 and NX-OS Layer 2 Protocols & Features
- Lesson 6: Nexus 7000 and Cisco NX-OS Layer 3 Protocols & Features

- Lesson 7: Cisco Nexus 7000 / NX-OS Quality of Service
- Lesson 8: Cisco Nexus 7000 and Cisco NX-OS Security
- Lesson 9: Troubleshooting

Module 2: Overview of the Nexus 5000 and Nexus 2000

- Lesson 1: Overview of the Nexus 5000 and Nexus 2000
- Lesson 2: Understanding Fibre Channel
- Lesson 3: Implementing an FCoE Network Using Nexus 5000 Switches

Associated Certifications & Exams

The Cisco Data Center Network Infrastructure Support 2 exam (642-974) tests a candidate's knowledge of the skills needed by a field engineer to install and support a Cisco Data Center Nexus platform.

This exam meets the requirements for the Cisco Data Center Networking Infrastructure Support Specialist certification.

On successful completion of this course students will receive a Torque IT attendance certificate.