

Data Center Network Infrastructure - 2

Längd: 5 Days Kurskod: DCNI-2

Sammanfattning:

DCNI-2 is a 5-day hands-on course that teaches you how to implement an enterprise Data Center infrastructure with the next-generation Cisco Nexus 7000, 5000, and 2000 platforms.

This course provides a technical overview of the Nexus platform architecture, deployment, and operations, including Layer 2 and 3 features, QoS, and security. Major architectural components include Virtual Device Contexts (VDCs), I/O consolidation with Fibre Channel over Ethernet (FCoE), and the Nexus 2000 Fabric Extender.

NEW! Global Knowledge has enhanced the DCNI-2 course with additional content on the Nexus 5000, including significantly more hands-on time, while keeping the course to 5 days.

Målgrupp:

This course is designed for experienced Network Field Engineers who are already capable of implementing Layer 2 and Layer 3 services using Cisco IOS and the Cisco Catalyst switching platform.

This course is designed to prepare you for the DCNIS-2 exam that is part of the **Cisco Data Center Networking Infrastructure Support Specialist** certification program.

Målsättning:

- After you complete this course, you will be able to:
- Describe the Nexus 7010 chassis, Supervisor Engine, and line cards
- Describe the Connectivity Management Processor
- Describe the architecture of NX-OS, including supervisor and process recovery
- Configure switch management features like Call Home, AAA, and RBAC
- Use configuration checkpoints and rollbacks
- Configure Virtual Device Contexts
- Configure Layer 2 and Layer 3 services
- Configure Quality of Service
- Configure traffic integrity features and Control Plane Protection
- Describe LinkSec encryption
- Use SPAN and Ethalyzer to monitor traffic
- Describe how FCoE operates within SAN and LAN environments
- Describe the architecture of the Nexus 2000 Fabric Extender
- Configure the Nexus 5000 in switch mode and NPV mode
- Manage traffic flow and priority
- Configure security policies
- Implement high-availability configurations
- Troubleshoot FCoE configurations

Förkunskaper:

The course assumes a good understanding of a lot of networking technologies and procedures. Students not fulfilling these prerequisites will have difficulties following the course and succeeding in the included lab exercises. It is recommended that you have CCNP or CCIE Routing and Switching certification status or equivalent knowledge.

Test och certifiering:

- Cisco Data Center Networking Infrastructure Support Specialist

Innehåll:

Module 1: Deploying the Nexus 7000

Lesson 1: Overview of the Nexus 7000

Lesson 2: Overview of NX-OS

Lesson 3: Introduction to Virtual Device Contexts

Lesson 4: Managing the Nexus 7000

Lesson 5: Layer 2 Protocols and Features

Lesson 6: Layer 3 Protocols and Features

Lesson 7: Quality of Service

Lesson 8: Security

Lesson 9: Troubleshooting

Module 2: Nexus 5000 Overview

Lesson 1: Overview of the Nexus 5000 ; Nexus 2000 Fabric Extender

Lesson 2: Fibre Channel Primer

Lesson 3: Ethernet Primer

Lesson 4: Server Virtualization Primer

Lesson 5: Understanding the FCoE Protocol

Lesson 6: Nexus 5000 System Architecture

Lesson 7: Ethernet Enhancements

Lesson 8: Future Directions

Module 3: Nexus 5000 Implementation and Configuration

Lesson 1: Configuring FCoE Server Connectivity

Lesson 2: Configuring a Nexus 5000 Switch in Switch Mode

Lesson 3: Managing Nexus 5000 Switches with Cisco Device Manager and Cisco Fabric Manager

Lesson 4: Configuring Nexus 5000 Switches in NPV Mode

Lesson 5: Managing Traffic Flow

Lesson 6: Configuring High Availability

Lesson 7: Securing the Switch

Lesson 8: Monitoring and Troubleshooting

Nexus 7000 Labs

Lab 1: Managing System Configuration

Lab 2: Layer 2 Switching

Lab 3: First-Hop Redundancy Protocols

Lab 4: Configuring Routing Protocols

Lab 5: VDC and VRF Interoperation

Lab 6: QoS on the Nexus 7000

Lab 7: Security

Lab 8: Troubleshooting the Nexus Control Plane

Nexus 5000 Labs

Lab 9: Analyzing FCoE Packet Traces

Lab 10: Configuring the Switch for Administrative Access

Lab 11: Configuring the Nexus 5000 for FCoE Connectivity

Lab 12: Configuring the Nexus 5000 in NPV Mode

Lab 13: Tuning and Optimizing FCoE Switch and Network Performance

Lab 14: Configuring a High Availability Environment

Lab 15: Configuring and Monitoring Security Features

Lab 16: Troubleshooting FCoE Issues on the Nexus 5000 Switch

Övrig information:

För mer information eller kursbokning, vänligen kontakta oss på telefon.020-73 73 73

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