
Cisco Mainframe Storage Solutions

Varighet: 1 Day Kurskode: CMSS

Beskrivelse:

This course is designed for storage network engineers who need to implement FICON storage networks using the Cisco MDS 9000 Multilayer Switch family. The course includes coverage of storage and channel terminology in a mainframe environment, along with detailed coverage of FICON protocols. Students will learn how to fully configure a MDS 9000 switch for FICON support, including basic configuration steps, CUP configuration, cascaded directors, and Fibre Channel-over-IP (FCIP) support.

This course is delivered as part of the Global Knowledge and Firefly strategic alliance, providing delegates with the latest in Data Center technology.

Målgruppe:

This course provides in-depth technical training for system engineers, network engineers, and field engineers who need to deploy, configure, and manage MDS 9000 Family switches in IBM mainframe storage environments. Enrollment is open to all Cisco SEs, Cisco channel partners, and customers.

Agenda:

- **After you complete this course, you will be able to:**
 - Describe FICON channel terminology and topologies
 - Describe the characteristics and applications of the FICON protocol
 - List typical applications for FICON
 - Implement FICON solutions with Cisco MDS 9000 Family switches
 - Verify the correct configuration of a FICON environment on Cisco MDS 9000 switches
 - Configure FICON port attributes and perform basic troubleshooting in a single-switch environment
 - Configure cascaded directors, PortChannels, and FCIP for FICON
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Forkunnskaper:

Delegates should meet the following prerequisites:

- Implementing Cisco Storage Network Solutions (ICSNS)

Test og sertifisering

Recommended as preparation for exam(s):

None applicable

Innhold:

Module 1: Mainframe Storage Technologies

IBM Mainframe Architecture Overview

- IBM Mainframe Systems
- Evolution of Mainframe Storage
- Mainframe Terminology
- Channels and Control Units

ESCON Overview

- ESCON Concepts
- ESCON Components
- ESCON Specifications
- ESCON Configurations
- EMIF Concepts
- IOCP/HCD Configurations
- ESCON Vendors

Module 2: FICON

FICON Concepts

- FICON Standards
- FICON Components
- FICON Bridge
- FICON Native
- FICON Cascade
- FICON and ESCON Comparison
- IOCP/HCD Configurations
- FICON Vendors

FICON Applications

- CTC and Peripheral Connectivity
- Disaster Recovery Applications
- Sysplex
- GDPS

The FC-SB-3 Protocol

- Overview of FC-SB-3
- Frame Format
- Addressing
- Read and Write Operations
- Port Login
- Flow Control
- FICON and FCP Comparison
- Intermix Fabrics

Module 3: Implementing Cisco FICON Solutions

FICON Fabric Configuration

- Overview
- Configuring a FICON VSAN
- Setting Domain IDs
- Enabling FCID Persistence
- Adding Interfaces
- Review of CLI Commands
- Overview of the CUP
- Configuring the CUP

FICON Port Configuration

- FICON Port Addressing
- Using Port Swap
- Configuring Port Attributes
- MDS FICON Configuration Files
- Miscellaneous Per-VSAN Settings

Troubleshooting

- Overview
- Verifying Domain Configuration
- Verifying Zone Configuration
- Verifying Fabric Binding
- Director History and the Accounting Log
- Viewing Inventory Data
- Displaying Performance Counters

FICON Cascade

- Defining Channel Paths in Cascaded Environments
- Configuring FICON PortChannels
- Implementing FICON over FCIP

Course Labs and Exercises:

Lab Exercise 1: Basic FICON

Configuration: In this exercise, students configure and verify FICON support in a single-switch environment.

Lab Exercise 2: Optional FICON Features and Basic Troubleshooting:

In this exercise, students configure FICON port attributes and perform basic troubleshooting in a single-switch environment.

Lab Exercise 3: Configuring Channel

Paths: In this exercise, students create a cascaded FICON VSAN using PortChannels

Ytterligere informasjon:

For mer informasjon eller kursbooking, vennligst ring oss 22 95 66 00

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