

---

# Configuring Cisco MDS 9000 Series Switches

## Description

This course teaches you to implement, manage, and troubleshoot Cisco® MDS 9000 Series Switches to build highly available, scalable storage networks. Through expert instruction and extensive hands-on practice, you will learn how to deploy and utilize capabilities such as Virtual Storage Area Networks (VSANs), Role-Based Access Control (RBAC), N-Port Virtualization (NPV) fabric security, zoning, automation with NX-API, Slow Drain Analysis, SAN analytics, Fibre Channel over TCP/IP (FCIP) tunnels, and more.

### Classroom Registration Price (CHF)

3850

### Virtual Classroom Registration Price (CHF)

3650

## Course Content

- Describing Cisco MDS Platform
- Provisioning Cisco MDS Switches
- Building the Fibre Channel Fabric with Cisco MDS Switches
- Automating Cisco MDS Fabric
- Monitoring and Reporting Cisco MDS Features
- Troubleshooting Common Cisco MDS Issues

## Lab / Exercises

- Perform Initial MDS Configuration
- Setup Cisco DCNM
- Explore DCNM-SAN Client and DCNM Cisco Device Manager
- Configure and Use RBAC
- Configure and Use RBAC with DCNM-SAN Client and Device Manager
- Manage VSANs and Fibre Channel Domain
- Configure Interfaces
- Configure Device Aliases and Zoning
- Configure FCIP Tunnels and FCIP High Availability
- Configure IVR for SAN Extension
- Configure NPV and NPIV
- Explore and Automate with NX-API
- Monitor SAN with Cisco DCNM
- Configure SAN Analytics and SAN Telemetry Streaming
- Troubleshoot Fibre Channel Domains, Zoning, and Zone Merges
- Perform Slow-Drain Analysis with Cisco DCNM

## Documentation

- Digital courseware included

## Exam

- This course helps you prepare to take the exam, **Implementing Cisco Storage Area Networking (300-625 DCSAN)**, which leads to **CCNP Data Center** and the **Certified Specialist - Data Center SAN Implementation**

---

certifications

### Participant profiles

- Technical decision makers
- Network architects
- Data center systems engineers
- Field engineers

### Prerequisites

- Basic understanding of data storage hardware components and protocols, including Small Computer System Interface (SCSI) and Fibre Channel
- Basic understanding of network protocols, including Ethernet and IP
- Basic routing and switching knowledge
- The following course may help you meet these prerequisites : [Implementing and Operating Cisco Data Center Core Technologies](#)

### Objectives

- Discover and describe the Cisco Multilayer Director Switch (MDS) platform of multilayer switches and directors
- Provisioning Cisco MDS Switches
- Describe key product features of the MDS platform
- Describe and implement automation on Cisco MDS Switches
- Configure and implement the Cisco MDS switches and platform features
- Resolve issues and troubleshoot FC domains, zones and zone merges, and switch boot and firmware upgrades

### Niveau

Intermédiaire

### Duration (in Days)

4

### Reference

CIS-DCMDS