

# Cisco MDS 9000 Series Switches Overview (DCMDSO) v1.0

## What you'll learn in this course

The **Cisco MDS 9000 Series Switches Overview (DCMDSO) v1.0** course gives you a technical overview of how Cisco MDS 9000 Series Multilayer Switches can be used to build highly available and scalable storage networks with advanced security and unified management. The course is for technical decision makers and IT professionals who architect, implement, and manage data center SAN environments. In this course, you'll learn about key capabilities of the MDS 9000 Series, including platforms, architecture, software, management, and key features that contribute to performance, high availability, flexibility, operational simplicity, and lower Total Cost of Ownership (TCO) of storage environments.

## Course duration

- Instructor-led training: 1 day in the classroom
- Virtual instructor-led training: 1 day of web-based classes

## How you'll benefit

This course will help you:

- Learn how you can use Cisco MDS Series 9000 Multilayer Switches to manage your enterprise SAN environment
- Understand the common platform architecture and key features of the MDS 9000 Series, which provide a consistent set of provisioning, management, and diagnostic capabilities and lead to flexibility, speed, lower TCO, and more benefits

## Technology areas

- Data center

## Who should enroll

IT professionals interested in understanding the capabilities of the MDS 9000 Series, including:

- IT directors
- IT managers
- Solutions architects
- Data center architects
- Network architects
- Systems engineers
- Data center engineers
- Network engineers

## How to enroll

- For instructor-led training, visit the [Cisco Learning Locator](#).
- For private group training, visit [Cisco Private Group Training](#).

## Course details

### Objectives

After taking this course, you should be able to:

- Describe Cisco MDS SAN features and advantages
- Describe fixed and modular platforms
- Describe Cisco MDS architecture and high-availability mechanisms
- Describe technologies used in modern SANs
- Describe SAN management with Cisco Data Center Network Manager (DCNM)
- Describe key value-add features that distinguish Cisco MDS switches

### Prerequisites

This course has no prerequisites, but you'll get the most from the course if you have the following:

- Experience managing data center deployments
- Understanding of the fundamentals of SAN technologies
- Understanding of business and application requirements

### Outline

- Cisco MDS Platform Overview
  - Introduction and Advantages of Cisco MDS
  - Fixed Platforms
  - Modular Platforms
- Cisco MDS Architecture
  - Store-and-Forward Architecture
  - High Availability
  - Redundancy
- Technologies
  - Fibre Channel-NVMe
  - Fibre Channel over IP
- Management
  - Cisco Data Center Network Manager
- Key Features
  - Virtual Storage Area Networks
  - Port Channels
  - Slow Drain Device and Path Analysis Using Congestion Control Mechanisms
  - Cisco DCNM SAN Insights for SAN Analytics
  - NPV and NPIV

- Zoning
- Smart Zoning
- Other Differentiating Features



---


Americas Headquarters  
Cisco Systems, Inc.  
San Jose, CA

Asia Pacific Headquarters  
Cisco Systems (USA) Pte. Ltd.  
Singapore

Europe Headquarters  
Cisco Systems International BV Amsterdam,  
The Netherlands

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco Website at [www.cisco.com/go/offices](http://www.cisco.com/go/offices).

---

 Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: <https://www.cisco.com/go/trademarks>. Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)

Course content is dynamic and subject to change without notice.

© 2018 Cisco and/or its affiliates. All rights reserved.

Course version: DCMDSO\_1-0 C22-740864-00 07/18