

Objetivos

After taking this course, you should be able to:

- 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 a 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

Pre-requisitos

To fully benefit from this course, you should have the following knowledge and skills:

- 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

These are the recommended Cisco courses that may help you meet these prerequisites:

- **Implementing and Administering Cisco Solutions (CCNA)**
- **Understanding Cisco Data Center Foundations (DCFNDU)**

Contenido

- Describing Cisco MDS Platform
 - Cisco MDS 9700/9300/9200/9100 Hardware
 - 32-Gb Fibre Channel
 - Cisco NX-OS

Configuring Cisco MDS 9000 Series Switches (DCMDS) v3.5

- Cisco DCNM
- Fibre Channel Architecture
- FCoE Architecture
- Provisioning Cisco MDS Switches
 - Power-On Auto-Provisioning
 - Cisco DCNM
 - Using Cisco DCNM 11.x
 - RBAC and Authentication, Authorization, and Accounting (AAA)
- Building the Fibre Channel Fabric with Cisco MDS Switches
 - Virtual SANs
 - Port Channels and VSAN Trunking
 - Zoning and Smart Zoning
 - Device Aliases
 - Inter-VSAN Routing
 - Fibre Channel Fabric Security
 - Building SAN Extensions
 - Inter-VSAN Routing
 - Slow Drain Analysis
 - SAN Analytics and Telemetry Streaming
 - Cisco Secure Boot
 - NPV and NPIV
- Automating Cisco MDS Fabric
 - Cisco MDS NX_API Python API
 - Ansible
- Monitoring and Reporting Cisco MDS Features
 - Cisco DCNM SAN Reports and Alarms
 - SAN Analytics and SAN Telemetry Streaming
- Troubleshooting Common Cisco MDS Issues
 - Troubleshooting Fibre Channel Domains, Zones and Zone Merges
 - Boot and Upgrade Issues

Laboratorio

- Set Up DCNM

Configuring Cisco MDS 9000 Series Switches (DCMDS) v3.5

- Explore DCNM-SAN Client and DCNM Device Manager
- Configure and Use RBAC
- Configure and Use RBAC with DCNM-SAN Client and Device Manager
- Manage VSANs and Fibre Channel Domain
- Configure NPV and N-Port Identification Virtualization (NPIV)
- Configure Interfaces
- Configure Device Aliases and Zoning
- Explore and Automate with NX-API
- Perform Slow Drain Analysis with Cisco DCNM
- Configure SAN Analysis and SAN Telemetry Streaming
- Configure FCIP Tunnels and FCIP High Availability
- Configure IVR for SAN Extension
- Troubleshoot Zoning and Zone Merges

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