DCMDS (CONFIGURING CISCO MDS 9000 SERIES SWITCHES)

Objetivo

After taking this course, you should be able to: â□¢ Discover and describe the Cisco Multilayer Director Switch (MDS) platform of multilayer switches and directors. Describe the MDS hardware, NX-OS operating system, Data Center Network Manager (DCNM) management software, and key architectures of the platform, such as FC and Fibre Channel over Ethernet (FCoE); â□¢ Describe key product features of the MDS platform, including VSANs, RBAC, NPV, port channels, zoning, device aliases, inter-VSAN routing (IVR), and fabric security; â□¢ Configure and implement the Cisco MDS switches and platform features, such has initial configuration, building a fabric, building a SAN extension, and configuring inter-VSAN routing for that purpose; â□¢ Configure FCIP tunnels; â□¢ Resolve issues and troubleshoot FC domains, zones and zone merges, and switch boot and firmware upgrades.

PÃºblico Alvo

Technical and professionals who implement, configure, support and manage data center SAN environments using Cisco MDS 9000 Switches. This course also helps prepare student to take the Implementing Cisco Storage Area Networking (300-625 DCSAN) exam, which is part of the new CCNPÂ® Data Center.

PrÃ©-Requisitos

To fully benefit from this course, you should have the following knowledge and skills: â□¢ Basic understanding of data storage hardware components and protocols, including Small Computer System Interface (SCSI) and Fibre Channel; â□¢ Basic understanding of network protocols, including Ethernet and IP; â□¢ Basic routing and switching knowledge. These are the recommended Cisco courses that may help you meet these prerequisites: â□¢ DCFNDU - Understanding Cisco Data Center Foundations; â□¢ DCMDSO - Cisco MDS 9000 Series Switches Overview; â□¢ DCIMDS - Introducing Cisco MDS 9000 Series Switches.

Carga HorÃiria

32 horas (4 dias).

ConteÃºdo ProgramÃitico

Course Introduction
Course Outline
Course Goals & Objectives

Describing Cisco MDS Platform
Cisco MDS 9700/9300/9200/9100 Hardware
Cisco NX-OS

Cisco DCNM
Fibre Channel Architecture
FCoE Architecture

Describing Key Product Features
Cisco DCNM 11.x
RBAC and Authentication, Authorization, and Accounting (AAA)
Virtual SANs
NPV and NPIV
Port Channels and VSAN Trunking
Zoning and Smart Zoning
Device Aliases
Inter-VSAN Routing
Fibre Channel Fabric Security

Describing New Product Features
32-Gb Fibre Channel
Cisco MDS NX-API
Power-On Auto-Provisioning
Slow Drain Analysis
Analytics and SAN Telemetry Streaming
Cisco Secure Boot

Deploying Cisco MDS Features
Installation and Initial Setup
Building a Fabric: FC Domains and FC Services
Building SAN Extensions

Troubleshooting Common Cisco MDS Issues
Fibre Channel Domains
Zones and Zone Merges
Boot and Upgrade Issues

Lab outline
Lab 1: Set Up DCNM
Lab 2: Explore DCNM-SAN Client and DCNM Device Manager
Lab 3: Configure and Use RBAC
Lab 4: Configure and Use RBAC with DCNM-SAN Client and Device Manager
Lab 5: Manage VSANs and Fibre Channel Domain
Lab 6: Configure NPV and N-Port Identification Virtualization (NPIV)
Lab 7: Configure Interfaces
Lab 8: Configure Device Aliases and Zoning
Lab 9: Explore and Automate with NX-API
Lab 10: Perform Slow Drain Analysis with Cisco DCNM
Lab 11: Configure SAN Analysis and SAN Telemetry Streaming
Lab 12: Configure FCIP Tunnels and FCIP High Availability (HA)
Lab 13: Configure IVR for SAN Extension
Lab 14 Troubleshoot Zoning and Zone Merges