
Administering Meraki MS / Catalyst Switches v2.0 (MER-SWITCH)

***WHERE GREAT TRAINING
HAPPENS EVERYDAY!***

Administering Meraki MS / Catalyst Switches v2.0 (MER-SWITCH)

Course Duration

4 Days

Course Price

\$3,895.00

38 CLCs

Methods of Delivery

In-Person ILT

Virtual ILT

Onsite ILT

About this Class

This four-day, instructor-led, hands-on course is designed for IT professionals focusing on Meraki-switched networks. It aims to provide participants with a comprehensive understanding and hands-on experience in deploying, managing, and troubleshooting networks that utilize Cisco Meraki MS and Cisco Catalyst switches. The course offers a balanced mixture of theoretical knowledge and practical skills, ensuring it is well-suited for those involved in the intricate aspects of network management and configuration.

By the conclusion of this course, participants will be well-equipped with the necessary knowledge and skills to ensure the reliability, security, and efficiency of networks using Cisco Meraki MS and Cisco Catalyst switches. This includes a comprehensive understanding of how to design, implement, manage, and troubleshoot these networks effectively, making them invaluable assets to their respective departments.

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How you will benefit

- Utilize Meraki Configuration Templates and Group Policies
- Understand Meraki Switch Fundamental Concepts
- Understand Meraki Network and Device Management
- Learn Understanding of Meraki Switch Fundamental Concepts

Why Attend with Current Technologies CLC

- Our Instructors are the top 10% rated by Cisco
- Our Lab has a dedicated 1 Gig Fiber Connection for our Labs
- Our Labs run up to Date Code for all our courses

Who Should Attend

The job roles best suited to the material in this course are:

- Network Engineers
- System Administrators
- IT Professionals
- Technical Support Staff
- Cisco Certified Professionals

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Objectives

After taking this course, you should be able to:

- Understanding of Meraki Switch Fundamental Concepts
- Dashboard Navigation and Configuration
- Effective Meraki Switch Troubleshooting
- Provisioning Meraki Switches
- Configuration of Organizational and Network Settings
- Utilization of Meraki Configuration Templates and Group Policies
- Meraki Network and Device Management
- Switches Stacks and Port Configuration
- Meraki IPv6 Configuration
- Meraki Port Management with ISE and Radius
- Meraki Switch Monitoring and Connectivity Troubleshooting
- Device and Connectivity Troubleshooting on Meraki Networks
- Meraki APIs for MS and Catalyst Switches

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Course Outline

Module 0: Introductions

Module 1: Introduction to Meraki

- Lesson 1: Why Cisco Meraki?
- Lesson 2: Meraki Product Overview
- Lesson 3: Meraki Support

Module 2: Meraki MS / Catalyst Licensing

- Lesson 1: Meraki Licensing Overview
- Lesson 2: Co-Termination Licensing Overview
- Lesson 3: Co-Termination Licensing in the Dashboard
- Lesson 4: Per Device Licensing (PDL) Overview
- Lesson 5: PDL in the Dashboard
- Lesson 6: Subscription Licensing Overview
- Lesson 7: Subscription Licensing in the Dashboard
- Lesson 8: Catalyst Licensing for the Meraki
- Lesson 9: Migrating DNA Licensing to Meraki Dashboard

Module 3: Meraki Switches

- Lesson 1: Meraki Layer 2 Access Switches
- Lesson 2: Meraki Layer 3 Access Switches
- Lesson 3: Meraki Aggregation Switches
- Lesson 4: Catalyst Switches
- Lesson 5: Power and Accessories

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Module 4: Configuring the Meraki Dashboard

- Lesson 1: Meraki Dashboard, Organizations, and Networks
- Lesson 2: Organizational - Wide Configure Settings
- Lesson 3: Configuring Administrators
- Lesson 4: Creating Networks and Managing Inventory
- Lesson 5: Organization > Overview Page
- Lesson 6: Configuring Network - Wide Settings
- Lesson 7: Network - Wide Administrators & Users
- Lesson 8: Network - Wide > Add Devices
- Lesson 9: Configuring Location / Mapping Devices
- Lesson 10: Configuration Templates
- Lesson 11: Configuring Group Policies

Module 5: Configuring Meraki MS Switches

- Lesson 1: Basic Switch Configuration
- Lesson 2: Provisioning Switch Stacks
- Lesson 3: Meraki MS Switch Settings
- Lesson 4: DHCP Server Status
- Lesson 5: Meraki MS - Port Schedules
- Lesson 6: Local Status Page
- Lesson 7: Manage MS Firmware
- Lesson 8: Manage MS Staged Upgrades
- Lesson 9: Configuring Switch Ports
- Lesson 10: Link Aggregation
- Lesson 11: Mirroring Switch Ports

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Module 6: Meraki MS Routing and Multicast

- Lesson 1: Meraki Layer 2 vs Layer 3
- Lesson 2: Static Routes
- Lesson 3: Meraki Switch Warm Spare - Virtual Router Redundancy Protocol (VRRP)
- Lesson 4: Meraki Switch Routing
- Lesson 5: Meraki MS - Open Shortest Path First (OSPF)

Module 7: Monitoring Catalyst Switches in the Meraki Dashboard

- Lesson 1: Monitoring Catalyst Switches
- Lesson 2: Supported Catalyst Switches
- Lesson 3: Cloud Monitoring for Catalyst Onboarding
- Lesson 4: Cloud Monitoring for Catalyst Licensing
- Lesson 5: Cloud - Based Monitoring

Module 8: Managing Catalyst Switches in the Meraki Dashboard

- Lesson 1: Managing Catalyst Switches
- Lesson 2: Supported Catalyst Switches
- Lesson 3: Migrating to Meraki - Managed Mode
- Lesson 4: Register the Switch with the Meraki Dashboard
- Lesson 5: Managed Catalyst Switch Meraki Feature Support
- Lesson 7: Managing Catalyst Switches in the Dashboard

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Module 9: Meraki Switch Security

- Lesson 1: Access Control Lists
- Lesson 2: Securing Switch Ports
- Lesson 3: SecurePort Switch Ports for MR Access Points
- Lesson 4: Port Isolation
- Lesson 5: Enforce Segmentation with Group Policy ACL

Module 10: Meraki Authentication ISE and Radius

- Lesson 1: Managing Users
- Lesson 2: Access Control
- Lesson 3: Meraki Integration with Cisco Identity Services Engine (ISE)
- Lesson 4: Meraki 802.1x Radius Integration

Module 11: Meraki Adaptive Policy

- Lesson 1: Meraki Switches Supported Models
- Lesson 2: Adaptive Policy Architecture
- Lesson 3: Configuration

Module 12: Meraki IPv6 Configuration

- Lesson 1: Meraki IPv6 Overview
- Lesson 2: Meraki IPv6 Features on Meraki
- Lesson 3: Meraki IPv6 Dual Stack
- Lesson 4: IPv6 DHCP and Addressing
- Lesson 5: IPv6 Security and ACLs
- Lesson 6: IPv6 Management Protocols

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Module 13: Monitoring Switches and Clients

- Lesson 1: Monitoring Switch Ports
- Lesson 2: Meraki Health
- Lesson 3: Switch Traffic Analytics
- Lesson 4: Switch Topology
- Lesson 5: Monitoring Wired Clients

Module 14: Troubleshooting Switches and Clients

- Lesson 1: Troubleshooting Clients Connections
- Lesson 2: Troubleshooting Switch Connectivity
- Lesson 3: Switch Event Logs
- Lesson 4: Capturing Packets in a Switch
- Lesson 5: Configuring Switch Alerts
- Lesson 6: Switch Tools
- Lesson 7: VLAN Mismatch Troubleshooting
- Lesson 8: Use Wireshark to Decode Port Captures

Module 15: Meraki Switch APIs

- Lesson 1: Meraki API and Integration Overview
- Lesson 2: Meraki API Technologies and Tools
- Lesson 3: Meraki Dashboard API
- Lesson 4: Using Postman with Meraki
- Lesson 5: Meraki Dashboard API Python Library
- Lesson 6: Use Case - Pulling Statistics from Meraki Devices
- Lesson 7: Meraki Tools
- Lesson 8: Meraki Action Batches