

Implementing and Configuring Meraki Technologies (ICMT-CT)

COURSE OVERVIEW:

This 5-day Cisco course provide students with the skills to configure, optimize, and troubleshoot a Cisco Meraki solution. Students will learn how to install and optimize Meraki MX Firewalls, Meraki MS Switches, Meraki MR Access Points, and Meraki MV Cameras. Students will also learn how to configure the Meraki Dashboard, Meraki Insight and Meraki Systems Manager (EMM/MDM). Student will troubleshoot and configure the Meraki environment and learn how to diagnose and resolve user and Network issues that may arise.

COURSE OBJECTIVES:

Following completion of this course, students will understand, Install, Configure, Monitor, and Troubleshoot the following:

- Navigate and Configure the dashboard
- Add MX/MR/MS/MV devices to the Dashboard
- Understand and Configure Configuration Templates
- Understand and Configure Group Policies
- Manage/Configure/Integrate Users and Radius Policies
- Configure, Monitor, and Troubleshoot MX Firewalls
- Configure, Monitor, and Troubleshoot MS Switches
- Configure, Monitor, and Troubleshoot MR Access Points
- Configure, Monitor, and Troubleshoot MV Cameras
- Configure Systems Manage (EMM/MDM)
- Use Meraki Insight to Monitor Meraki Network Health
- Troubleshoot devices and Connectivity

COURSE OUTLINE:

Module 1: Introduction to Meraki

- The Meraki Mission
- Cisco Meraki: Bringing the Cloud to Enterprise Networks
- Cloud-Managed Networking Architecture
- Benefits of a Cloud-Based Solution
- The Meraki Full Stack: New and Unique Value Proposition
- Meraki Deployment - How it works
- Why Customers Choose Meraki
- Meraki MS Switches Overview
- Meraki MX Security Appliances Overview
- Meraki SD-WAN Overview
- Meraki MR Wireless Access Points Overview
- Cisco Meraki Systems Manager Overview

- Cisco Meraki MV Vision Security Cameras Overview
- Meraki API Overview
- Meraki Licensing
- Enterprise Support
- Cisco Meraki Documentation

Module 2: Cloud Management with the Meraki Dashboard

- The Meraki Dashboard
- Dashboard: Organizational Structure
- Out-of-band Cloud Management
- Loss of Connectivity to the Cisco Meraki Cloud
- Meraki Dashboard Logins
- Create Dashboard Accounts and Organization
- MSP Logins - Manage Multiple Organizations
- Modify an Organization
- View Organizations Health
- Meraki Dashboard Best Practices
- Dashboard Search
- Meraki Help
- Organizational Wide Settings
- Configure
- Monitor
- Create and Manage Configuration Templates
- Network-Wide Settings
- Configure

Module 3: Meraki MX Security

- Benefits of a Cloud Managed Security Solution
- Threat Management Solution
- Advanced Security Licenses
- Reliable, Cost Effective Connectivity with Meraki SD-WAN
- Site-to-Site VPN (Auto VPN)
- High Availability and Path Redundancy
- Application-Aware Intelligent Path Control
- Traffic Monitoring and Analytics
- Integrating Active Directory
- Cisco Meraki MX Models and Features
- Configuring the Local Status Page
- Adding Appliance to Network
- Device Configuration
- Configuring the Warm Spare Feature

- Device Tags & Notes
- Configuring Addressing & VLANs
- DHCP Server Configuration and Options
- Meraki Firewall Configuration
- Meraki Site-to-Site VPN
- Hub Configuration with an Exit Hub
- Split Tunnel vs Full Tunnel
- One Arm VPN Concentrator Configuration
- Meraki Client VPN
- Meraki Active Directory Integration
- Meraki Access Control
- Meraki Splash Page Configuration
- Configuring Access Policies
- Teleworker VPN / L3 Roaming

Module 4: Meraki Switching

- MS Switch Platforms and Features
- MS Feature: Multi-gigabit Ethernet
- Cisco Meraki MS Access Switches
- Cisco Meraki MS Aggregation Switches
- Using Tags to search, monitor and configure Meraki Switches
- Meraki Switch Configuration
- Port Configuration
- Meraki Switch Monitoring
- Troubleshooting Tools
- Managing Firmware Upgrades

Module 5: Meraki MR Wireless

- Meraki MR Wireless Overview
- Meraki 2.5G Multigigabit (MGig) Wireless
- Meraki Mesh Routing
- Meraki's solution for RF Environments
- Securing Guest Wireless
- Bluetooth Integrated Analytics
- Meraki Location Heatmap
- High Density Wireless
- Zero-Touch Provisioning for Wireless
- Dedicated Scanning Radio for Rouges and Interference
- Mounting indoor and Outdoor Antennas
- Meraki MR Licensing
- IEEE 802.11 Wireless LAN Standards

- Site Survey & Design for ensuring connectivity and user experience
- Meraki AP Models Overview
- Configuring Meraki APs
- Configuring SSIDs
- Firewall & Traffic Shaping Configuration for Wireless
- Monitoring Meraki APs
- Trouble Shooting

Module 6: Meraki System Manager

- Device Management Overview
- Mobile Device Management
- Mobile Application Management
- Mobile Identity
- Meraki Sentry
- Deployment Considerations
- Systems Manager Licensing
- SM Supported Devices
- Meraki SM Features
- Creating a Network for Systems Manager
- Setup device Enrollment
- Cisco ISE Integration
- SM Profiles
- Managing Clients
- Monitoring Clients

Module 7: Meraki MV Camera

- Meraki MV Security Cameras Product Family
- MV Camera Warranty
- MV Camera Licensing
- MV Camera Video Encryption
- MV Video and Audio Recording
- Configuring User/admin Security
- Configuring Camera Settings
- View Camera Events
- Searching Video for Events
- Creating Configuring Video Wall Boards
- Troubleshooting Camera Connectivity
- Using the Event Log for Camera Events

Labs

Lab 1: Configuring the Organization

- Configure Organizational Settings
- Add All Devices to Organization
- Create Networks
- Manage Network-Wide Settings
- Create group Policies
- Manage Firmware Upgrades
- Create Templates
- Manage VLAN Templates
- Bind Templates to Networks

Lab 2: Configuring MX Appliances and Z3 Teleworker Devices

- Configure MX Appliance and Configure Z3 Appliance
- MX Appliances and Z3 Verification and Troubleshooting

Lab 3: Configuring MS Switches

- Switch Configuration
- Configure Switch Using a Network Template
- Configuring Ports
- Meraki Switch Monitoring
- Troubleshooting Tools
- Managing Firmware Upgrades

Lab 4: Meraki MR Wireless

- Configuring Meraki APs
- Configuring SSIDs
- Firewall & Traffic Shaping Configuration for Wireless
- Monitoring Meraki APs
- Trouble Shooting

Lab 5: Meraki MV Cameras

- Adding Cameras to a dedicated Network
- Configuring Users
- Configure admins
- Configuring Camera Settings
- View Camera Events
- Searching Video for Events
- Creating Configuring Video Wall Boards
- Troubleshooting Camera Connectivity
- Using the Event Log for Camera Events
- Configure Wall Boards

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