

Meraki MX/SDWAN Security for Government v1.0 (MER-MXSDWAN-GOV)

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This five-day, instructor-led, hands-on course on the Meraki MX SDWAN/Security for Government course offers comprehensive training on deploying, managing, and troubleshooting the Cisco Meraki MX security and SD-WAN solutions in government environments. This course is designed to equip participants with the knowledge and skills necessary to leverage these solutions for enhancing network security, improving operational efficiency, and ensuring compliance with government standards for data protection and privacy. Through theoretical learning and practical exercises, attendees will gain hands-on experience configuring advanced security features, optimizing traffic flow across wide-area networks, and utilizing cloud management capabilities to monitor and control network devices remotely. By the end of the course, participants will be well-prepared to implement and manage Cisco Meraki MX solutions effectively within government agencies or departments, ensuring a secure, resilient, and high-performance network infrastructure. 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 MX Security Appliances. This includes a comprehensive understanding of how to design, implement, manage, and troubleshoot these networks effectively, making them invaluable assets to their respective government agencies or departments.

How you'll benefit

This class will help you:

- Understanding Meraki MX Licensing
- Learn how to Implement SD-WAN and Traffic Shaping on Government Networks

Why Attend with Current Technologies CLC

- Our Instructors are in 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 primary audience for this course is as follows:

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

Course Duration

5 days

Course Price

\$4,395.00 or 45 CLCs

Methods of Delivery

- Instructor Led
- Virtual ILT
- On-Site

Module 1: Introduction to Meraki for Government

- Cisco Meraki For Government
- Meraki For Government Product Overview
- Meraki For Government Support Overview

Module 2: Meraki for Government Licensing

- Meraki For Government Licensing
- Co-Termination Licensing Overview
- Co-Termination Licensing In The Dashboard
- Subscription Licensing Overview
- Subscription Licensing In The Dashboard

Module 3: Meraki for Government MX Security Appliances

- MX Models & Features
- MG - Meraki Cellular Gateway
- Local Status Page

Module 4: Configuring the Meraki Dashboard for Government

- Meraki Dashboard, Organizations, and Networks
- Organizational - Wide Configure Settings
- Configuring Administrators
- Creating Networks and Managing Inventory
- Organization > Overview Page
- Manage MX Firmware
- Configuring Network - Wide Settings
- Network - Wide Administrators and Users
- Network - Wide > Add Devices
- Group Policy
- Configuring Location / Mapping Devices
- Configuring Templates

Module 5: MX Configuration for Government Networks

- Initial Setup Using the Appliance Status Page
- Addressing and VLANs
- Dynamic Host Configuration Protocol (DHCP)

Module 6: MX Security for Government Networks

- Security Introduction
- Firewall Configuration
- Threat Protection
- Content Filtering

Module 7: Meraki Switch RADIUS, ISE, AD & Adaptive Policy for Government Networks

- Cisco Identity Services Engine (ISE)
- ISE With Meraki
- ISE Integration with Meraki Switches
- Cisco TrustSec (Software-Defined Segmentation)
- Meraki Adaptive Policy

- ISE Meraki Connector
- Active Directory Users With Meraki Group Policies

Module 8: Configuring Meraki MX SD-WAN For Government Networks

- What Is Meraki SD-WAN?
- SD-WAN Concepts
- Designing SD-WAN Networks
- Direct Internet Access
- Configuring Meraki SD-WAN
- Monitor Site-To-Site VPNs
- Meraki SD-WAN & Traffic Shaping
- Data Center Redundancy
- Routing
- Meraki & Catalyst SD-WAN

Module 9: Configuring MX Umbrella for Government

- Meraki Integration With Umbrella for Government
- Enabling Umbrella for Government (From the Umbrella Dashboard)
- Enabling Umbrella for Government (From the Meraki Dashboard)
- Creating An Umbrella Policy for Government (From the Umbrella Dashboard)
- Applying Umbrella for Government Policies

Module 10: Configuring MX Client VPNs for Government

- L2TP Client VPN Configuration
- Cisco AnyConnect VPN Configuration

Module 11: Configuring Meraki IPv6 for Government

- Meraki IPv6 Overview
- IPv6 Design & Deployment
- Meraki MX IPv6 Configuration
- MX IPv6 Addressing
- IPv6 Concentrator Mode
- IPv6 Security
- Monitoring and Troubleshooting Meraki IPv6 Networks

Module 12: Monitoring Meraki MX Appliances for Government Networks

- Meraki Dashboard Status Page
- Meraki Monitoring Environments For Government
- Summary Reports
- Organization Summary
- Topology
- Login Attempts
- VPN Status
- Alerts
- Syslog
- Traffic Analytics
- Monitoring Clients

Module 13: Troubleshooting Meraki MX Appliances for Government Environments

- Meraki Troubleshooting Methodology
- Meraki Help and Support
- Troubleshooting MX Management Tunnels
- Troubleshooting a Faulty MX
- Meraki MX Troubleshooting Tools
- Change Log and Event Log
- Meraki Packet Captures
- Troubleshooting Uplinks to the Dashboard
- Dashboard Alerts for Device Connectivity
- Troubleshooting Client Connections

Module 14: Configuring ThousandEyes & Meraki MX for Government Networks

- Thousand Eyes Introduction
- MX Thousand Eyes Integration
- Design & Technical Overview
- Network Topologies and Deployment Considerations
- ThousandEyes Via Meraki App Platform
- Enabling & Deploying ThousandEyes on the MX Platform
- Thousand Eyes Active Application Monitoring
- Thousand Eyes Internet Outages

Module 15: Meraki MX APIs for Government and Integrations for Government

- Meraki API For Government and Integration for Government Overview
- Meraki API Technologies and Tools for Government
- Meraki Dashboard API for Government
- Using Postman with Meraki for Government
- Meraki Dashboard API Python Library
- AsyncIO
- Dashboard for Government APIs for MX
- API VPN Map
- Use Case – Pulling Statistics from Meraki Devices
- Meraki Tools
- Meraki Action Batches