



Cisco Meraki SD-WAN: Advanced Policy, Security and Programmability

Duration: 3 Days Course Code: N1 SDWMER Delivery Method: Virtual Learning

Overview:

This course is hands-on training on Cisco Meraki SD-WAN implementations, basic and advanced Cisco Meraki SD-WAN Security features that are available on Meraki MX routers. Deep dive into capabilities like Firewall and Traffic, Application Aware Firewall, AMP Integration, Content Filtering, Threat Protection, and many other advanced features are covered as a part of this training. This course also provides hands-on training on Cisco Meraki SD-WAN Programmability features.

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

The primary audience for this course is as follows:

- Systems Engineers
- Technical Solutions Architects

Objectives:

- Upon completing this course, the learner will be able to meet these overall objectives:
- Introduction to Cisco Meraki SD-WAN Solution and Products/Components
- Understand key concepts of Cisco Meraki SD-WAN
- Implement Meraki SD-WAN Solution

- Understand Cisco Meraki SD-WAN Security Features
- Implement Firewall and IPS Policies
- Understand Cisco SD-WAN Programmability features
- Script APIs to automate Cisco SD-WAN vManage configurations

Prerequisites:

The knowledge and skills that a learner should have before attending this course are as follows:

- Basic networking concepts
- Familiarity with basic network protocols and applications
- Familiarity with common application delivery methods

Content:

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Module 1: Introduction to Meraki SD-WAN and Meraki Key Concepts	- Hub and Spoke VPN Deployment	- Uplink Configurations
Meraki Centralized DashboardMeraki key concepts	- Hub Priorities and Design considerations	- Uplink Selections
- Meraki Concentrator Modes	Module 3: Meraki SD-WAN Security	- Global Bandwidth Limitations
- VPN Topology	Exploring the SD-WAN and SecurityDashboardSite-to-site VPN Deep Dive	- Traffic Shaping Rules
- Split Tunnel and Full Tunnel	Client VPN Technologies Access control and Splash Page NAT and Port Forwarding Translated Testing	- Web Cache
- Hub and Spoke and VPN Mesh	 Firewall and Traffic Shaping Content Filtering and Threat Protection Meraki and Cisco Umbrella Integration 	Module 5: SD-WAN Security – Content Filtering and Threat Protection
Meraki Connection Monitor		
Data Center Redundancy (DC-DC Failover)	Module 4: Firewall and Traffic Shaping	MX and Active Directory Integrations
Warm Spare for VPN Concentrators	Policies	Content Filtering Implementations and
		Troubleshooting
Module 2: Meraki SD-WAN Deployment Models	MX Firewall Settings	Cisco AMP Integrations and Threat Protection
Introduction	- Outbound Rules	Threat Grid Integrations
Data Center Deployment		Ğ
MX Deployment Considerations		Module 6: Programmable API
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- MX Deployment Considerations	Application del vioco	Meraki Dashboard API with Postman
- WA Deployment Considerations		
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Hardware BO Ordinkian Oracidanskian	- Layer 7 Firewall Rules	into Postman
- Upstream DC Switching Considerations		Meraki Devices into the appropriate
		Networks using APIs
	- Forwarding Rules	Troubleshooting Meraki using APIs
- Routing Considerations	■ IP Source Address Spoofing Protection	- Dashboard
- Firewall Considerations	- Overview and Key Terms	
		- Device Dashboard
Branch Deployment		
	- NAT Modes Implementation	
- AutoVPN at the Branch		
	- Supported Deployment Topologies	

Further Information:

For More information, or to book your course, please call us on 00 971 4 446 4987 training@globalknowledge.ae

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SD-WAN and Traffic Shaping