



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:

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 Security Dashboard Site-to-site VPN Deep Dive Client VPN Tashbalarian	- Traffic Shaping Rules
- Split Tunnel and Full Tunnel	 Client VPN Technologies Access control and Splash Page NAT and Port Forwarding Firewall and Traffic Shaping 	- Web Cache
- Hub and Spoke and VPN Mesh	Content Filtering and Threat Protection Meraki and Cisco Umbrella Integration	Module 5: SD-WAN Security – Content Filtering and Threat Protection
Meraki Connection Monitor	, and the second	
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		
MX Deployment Considerations		Module 6: Programmable API
	- Appliance Services	
- MX Deployment Considerations		Meraki Dashboard API with Postman
		Meraki Organization and Networks Import
	- Layer 7 Firewall Rules	into Postman
- Upstream DC Switching Considerations		Meraki Devices into the appropriate
	Famusadia a Dulas	Networks using APIs
Douting Considerations	- Forwarding Rules	Troubleshooting Meraki using APIs
- Routing Considerations	■ IP Source Address Spoofing Protection	- Dashboard
- Firewall Considerations	- Overview and Key Terms	
- Dranch Darleymant		- Device Dashboard
Branch Deployment	NAT Madaa Implamentation	
- AutoVPN at the Branch	- NAT Modes Implementation	
	- Supported Deployment Topologies	

SD-WAN and Traffic Shaping

Further Information:

For More information, or to book your course, please call us on 00 20 (0) 2 2269 1982 or 16142 training@globalknowledge.com.eg

www.globalknowledge.com/en-eg/

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