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

Duration: 3 Days Course Code: N1 SDWMER

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 Technologies 	- Traffic Shaping Rules
- Split Tunnel and Full Tunnel	 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 Data Center Redundancy (DC-DC Failover) Warm Spare for VPN Concentrators 	Module 4: Firewall and Traffic Shaping Policies	MX and Active Directory Integrations Content Filtering Implementations and
Module 2: Meraki SD-WAN Deployment Models	MX Firewall Settings	Troubleshooting Cisco AMP Integrations and Threat Protection
IntroductionData Center Deployment	- Outbound Rules	■ Threat Grid Integrations
MX Deployment ConsiderationsMX Deployment Considerations	- Appliance Services	Module 6: Programmable API Meraki Dashboard API with Postman
- Upstream DC Switching Considerations	- Layer 7 Firewall Rules	 Meraki Organization and Networks Import into Postman Meraki Devices into the appropriate Networks using APIs
- Routing Considerations	- Forwarding Rules IP Source Address Spoofing Protection	■ Troubleshooting Meraki using APIs - Dashboard
- Firewall Considerations	- Overview and Key Terms	
■ Branch Deployment	- NAT Modes Implementation	- Device Dashboard
- AutoVPN at the Branch		
	- Supported Deployment Topologies	
	SD-WAN and Traffic Shaping	

Further Information:

For More information, or to book your course, please call us on Head Office Tel.: +974 40316639

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