Meraki Cloud Managed WiFi & Switching

@merakisimon

Cisco Meraki

December 13, 2016

Welcome to the 2nd session of the *Meraki Cloud Networking* webinar series!

- Use the Q and A panel to ask questions.

- Use the Chat panel to communicate with attendees and panelists.

- A link to a recording of the session will be sent to all registered attendees.

- Please take the feedback survey at the end of the webinar.

Cisco Networking Academy
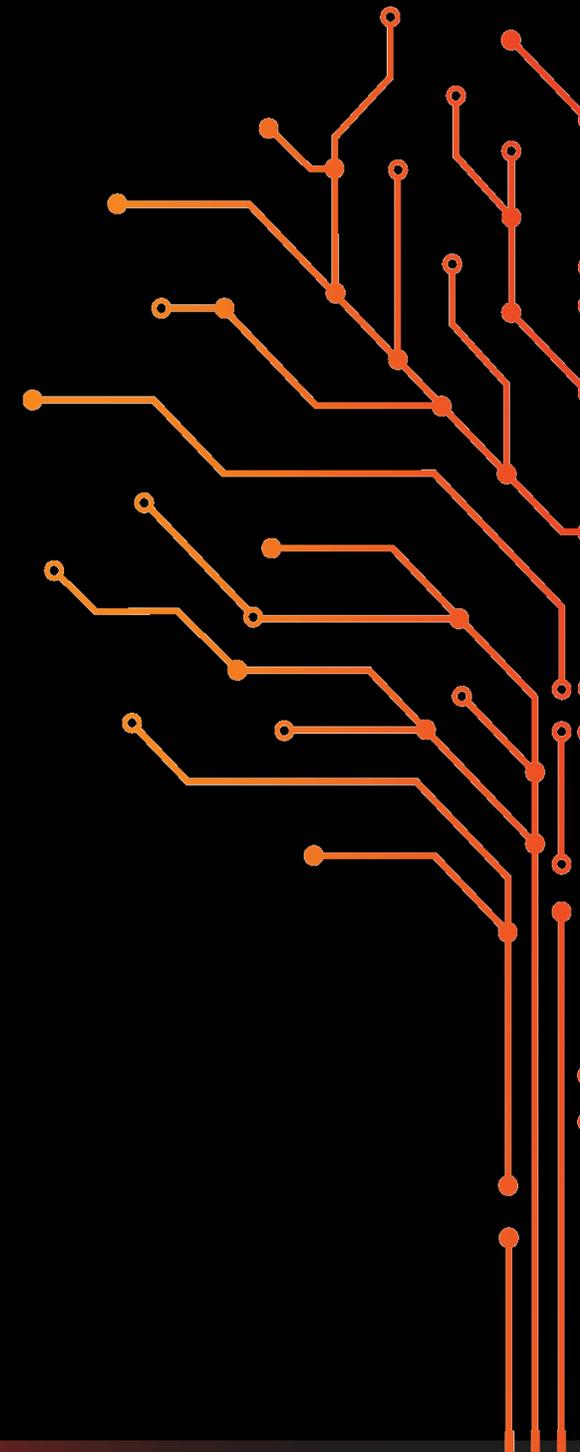
Career Advantage **Webinars**

Meraki Cloud Networking Series

NEXT SESSION:

Exploring Meraki Cloud Telephony and Vision

📅 **19 January**, 9:00 a.m. Pacific Standard Time

Register at: bit.ly/Meraki3

Agenda

Introduction
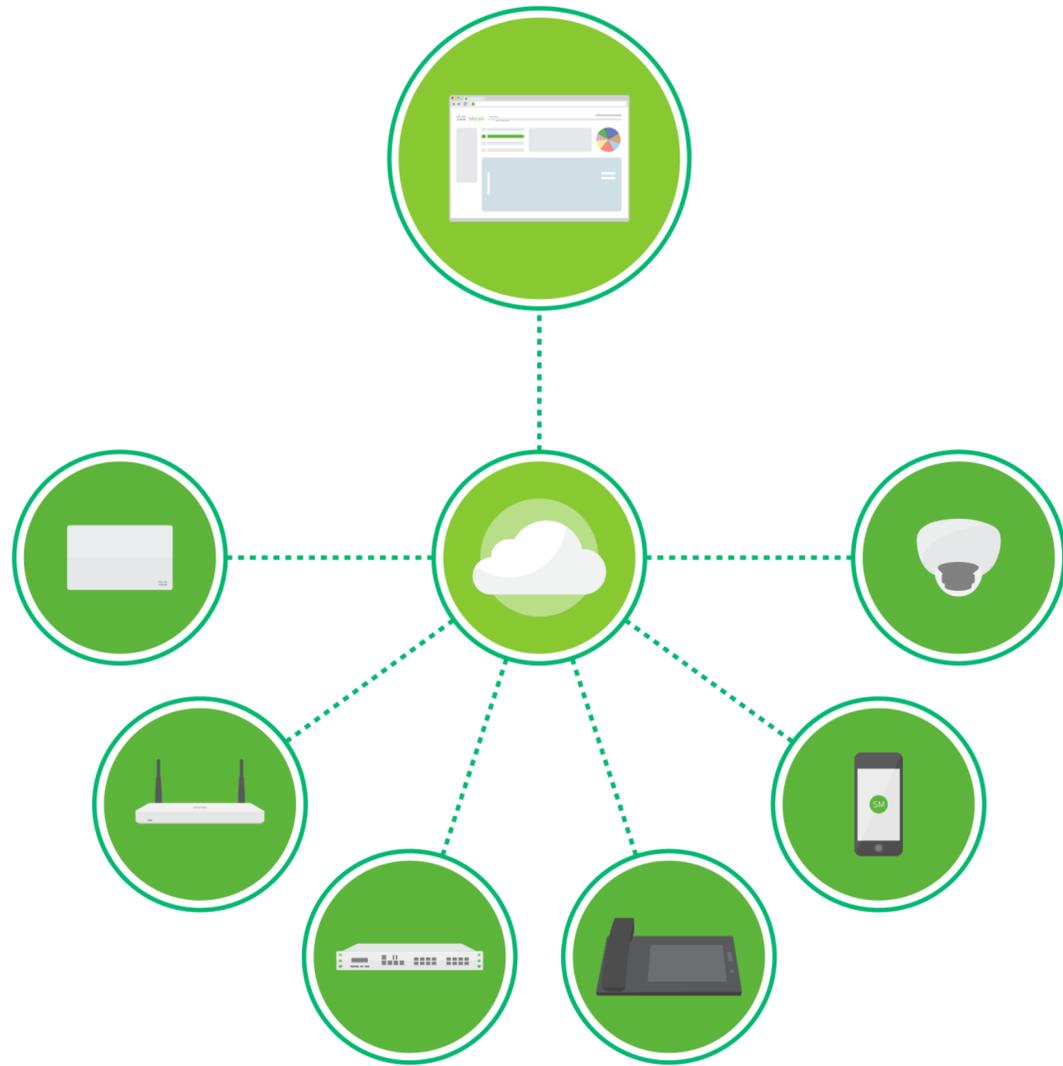
Why Cloud Networking?

Product demo

Product families

Q&A

About Cisco Meraki

Simplifying IT with Cloud Management

A complete cloud managed IT solution

Wireless, switching, security, SD-WAN, communications, EMM, and security cameras

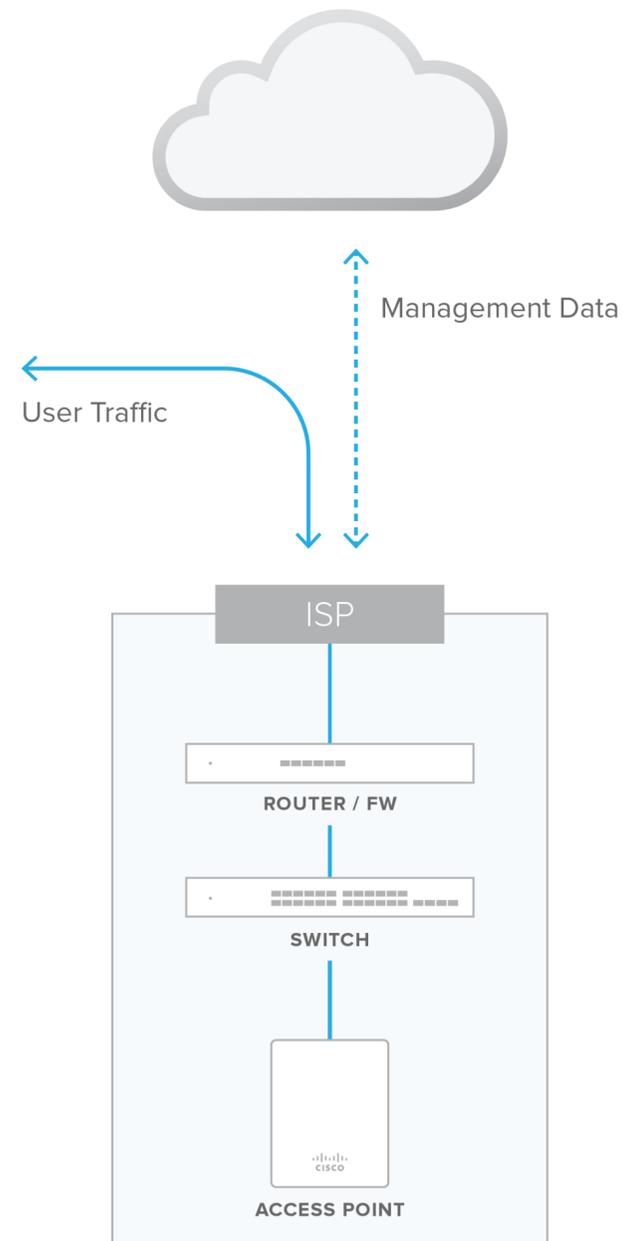Integrated hardware, software, and cloud services

Leader in cloud-managed networking

Among Cisco's fastest growing portfolios

Over 140,000 unique customers

Over 2 million Meraki network devices online

Out of band cloud management

Management Data

User Traffic

ISP

ROUTER / FW

SWITCH

CISCO

ACCESS POINT

Intuitive
 Simple browser-based dashboard
 Cloud hosted centralized management platform

Scalable
 Unlimited throughput, no bottlenecks
 Add devices or sites in minutes

Reliable
 Highly available cloud with multiple datacenters
 Network functions even if connection to cloud is interrupted
 99.99% uptime SLA

Secure
 No user traffic passes through cloud
 Fully HIPAA / PCI compliant (level 1 certified)
 3rd party security audits, daily penetration testing
 Automatic firmware and security updates (user-scheduled)

Reliability and security information at meraki.cisco.com/trust

Why cloud managed IT?

IOS_Router_1

```
 network 10.0.0.1 0.0.0.0 area 0
 bfd all-interfaces
IOS_Router_1#
IOS_Router_1#
IOS_Router_1#
IOS_Router_1#sh run | section rou
router bgp 100
 bgp router-id 1.1.1.1
 bgp log-neighbor-changes
 no bgp default ipv4-unicast
 neighbor 10.0.0.2 remote-as 100
 neighbor 10.0.0.2 fall-over bfd
 !
 address-family ipv4
  neighbor 10.0.0.2 activate
 exit-address-family
IOS_Router_1#
IOS_Router_1#
IOS_Router_1#
IOS_Router_1#sh bfd neighbor

IPv4 Sessions
NeighAddr
nt
10.0.0.2
t0/1
IOS_Router_1#
IOS_Router_1#
IOS_Router_1#sh bfd neighbor detai

IPv4 Sessions
NeighAddr
nt
10.0.0.2
t0/1
Session state is UP and using echo
Session Host: Software
OurAddr: 10.0.0.1
Handle: 1
Local Diag: 0, Demand mode: 0, Pol
MinTxInt: 1000000, MinRxInt: 1000000
Received MinRxInt: 1000000, Received Multiplier: 3
Holddown (hits): 0(0), Hello (hits): 1000(2400)
Rx Count: 2407, Rx Interval (ms) min/max/avg: 1/1006/879 last: 327 ms ago
Tx Count: 2402, Tx Interval (ms) min/max/avg: 1/1030/878 last: 546 ms ago
Elapsed time watermarks: 0 0 (last: 0)
Registered protocols: BGP CEF OSPF
Uptime: 00:35:12
```

IOS_Router_2

```
 network 10.0.0.2 0.0.0.0 area 0
 bfd all-interfaces
IOS_Router_2#
```

```
RH/RS        State    In

                     Up      Up        Et

RH/RS        State    In

                     Up      Up        Et
```

```
MinTxInt: 1000000, MinRxInt: 1000000, Multiplier: 3
Received MinRxInt: 1000000, Received Multiplier: 3
Holddown (hits): 0(0), Hello (hits): 1000(2451)
Rx Count: 2447, Rx Interval (ms) min/max/avg: 1/1031/879 last: 610 ms ago
Tx Count: 2452, Tx Interval (ms) min/max/avg: 1/1006/879 last: 238 ms ago
Elapsed time watermarks: 0 0 (last: 0)
Registered protocols: BGP CEF OSPF
Uptime: 00:35:52
```

Terminal

```
Router>enable
Password:
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#ip route-cache flow
Router(config-if)#exit
Router(config)#interface FastEthernet0/1
Router(config-if)#ip route-cache flow
Router(config-if)#exit
Router(config)#ip flow-export destination 192.168.17.3 2055
Router(config)#ip flow-export source FastEthernet0/0
Router(config)#ip flow-export version 5
Router(config)#ip flow-cache timeout active 1
Router(config)#ip flow-cache timeout inactive 15
Router(config)#^Z
Router#write
Building configuration...
[OK]
Router#exit
Connection closed by foreign host.
#
```

```
th 50 ms interval.
```

An integrated solution for new IT challenges

Billions of
mobile devices
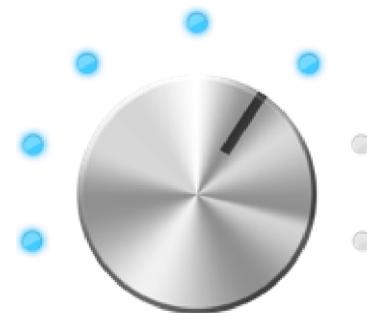

HD video and rich
media

New business
opportunities

↓   ↓   ↓

Integrated mobility
management

Layer 7
application shaping

Analytics and user
engagement

A complete solution out-of-the-box:
No extra hardware, software, or complexity

SaaS feature delivery, quarterly updates

Layer 3 roaming

Easy guest onboarding

Auto RF

Traffic analytics and shaping

Air Marshal
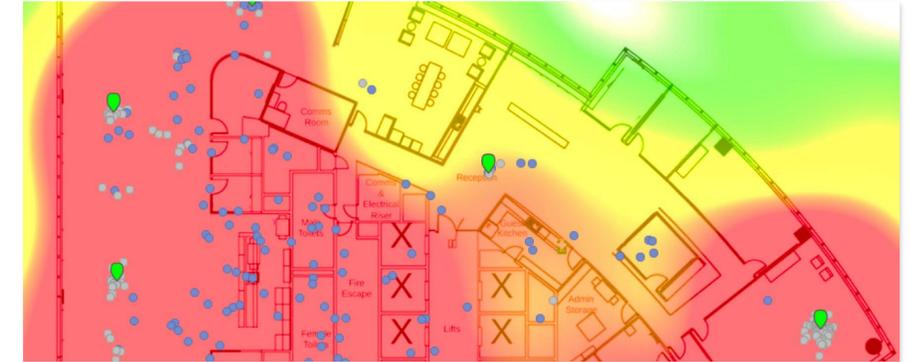
Location Analytics

Live demo

Products

Cisco Meraki AP lineup

Indoor APs

MR30H

2 stream triple-radio
802.11ac Wave 2
Bluetooth LE

MR33

2 stream triple-radio
802.11ac Wave 2
Bluetooth LE

MR42

3 stream quad-radio
802.11ac Wave 2
Bluetooth LE

MR52

4 stream quad-radio
802.11ac Wave 2
Bluetooth LE

MR53

4 stream quad-radio
802.11ac Wave 2
Multigigabit
Bluetooth LE

Outdoor APs

MR62

Single-radio
802.11b/g/n

MR66

Dual-radio
802.11a/b/g/n

MR72

2 stream triple-radio
802.11ac
Bluetooth LE

MR84

4 stream quad-radio
802.11ac Wave 2
Multigigabit
Bluetooth LE

The New Meraki Access Switching Portfolio

L2 ACCESS

Compact	MS220-8		PoE+ Options	1G SFP Uplinks			
Branch & Campus	MS225		PoE+ Options	10G SFP+ Uplinks	80G Stacking		

L3 ACCESS

Branch & Campus	MS250		PoE+ Options	10G SFP+ Uplinks	80G Stacking	Basic Routing	Modular Power	
Campus	MS350		PoE+ UPoE*	10G SFP+ Uplinks, mGig	160G Stacking	High Performance Routing	Modular Power	Modular fans
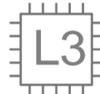
cisco Meraki

The Meraki Full Stack

MR
Access Points

MX
Security Appliances

MS
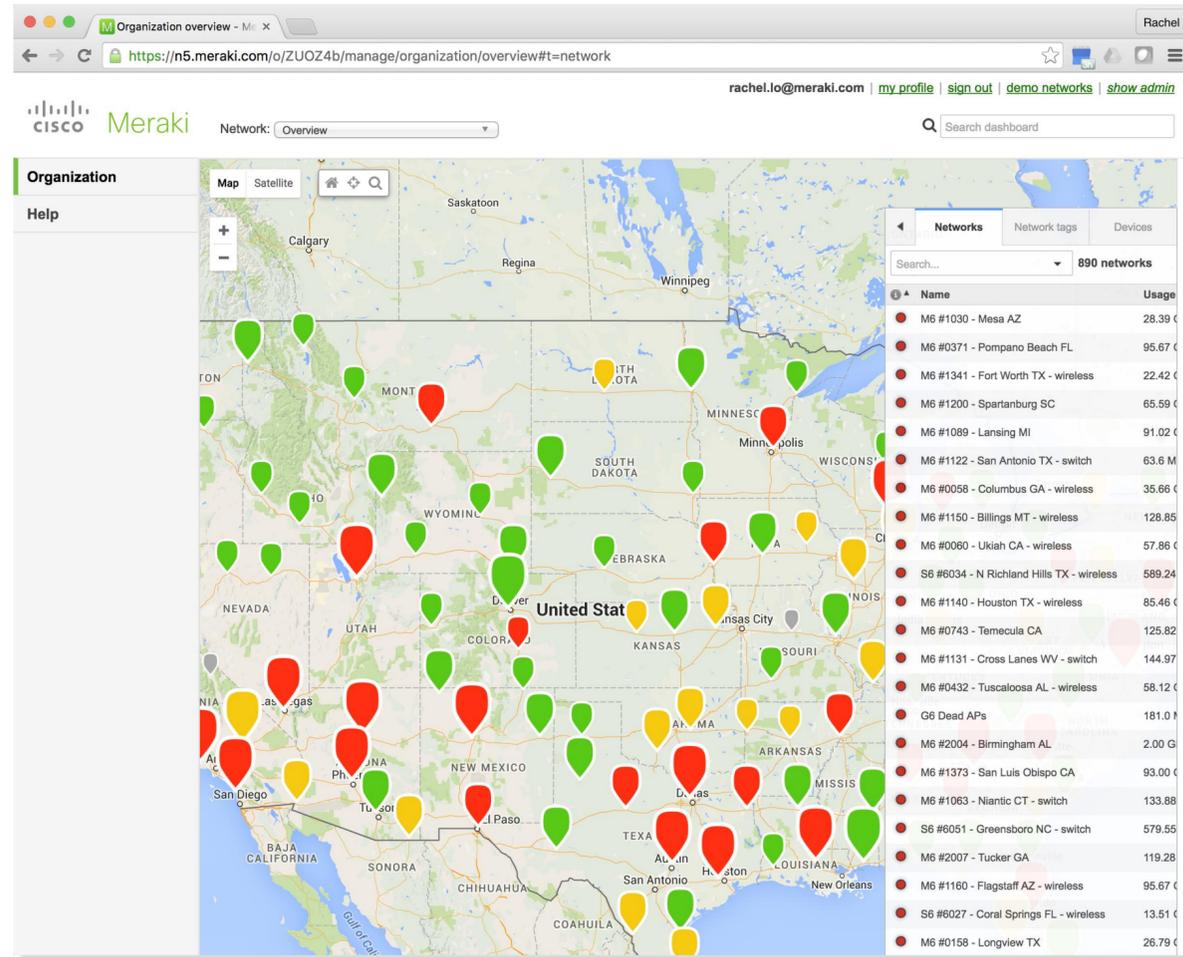Ethernet
Switches

SM Systems Manager
EMM

MC
Communications

MV
Security Cameras

A complete cloud managed IT portfolio

Single pane of glass management

Meraki

Benefits of all Cisco Meraki products

Multi-site management

Zero-touch device provisioning

Seamless firmware upgrades (user-scheduled)

Summary reports

PCI compliant

99.99% SLA

CISCO Meraki

Keeping in touch…

💬 Official Blog
http://meraki.cisco.com/blog

🐦 Twitter
@meraki

M Meraki public community
http://cs.co/talkmeraki

Q&A

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