

10 Ways Cisco Meraki Switches Make Life Easier

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- 1. Preconfigure switches for zero-touch deployment
- 2. Manage all switch ports from a single pane of glass
- 3. Run remote cable tests and packet captures
- 4. Identify and locate switch ports
- 5. Identify bandwidth hogs
- 6. Save energy and increase wired security
- 7. Contain rogue DHCP servers
- 8. Lock down switch access
- 9. Keep current with seamless updates
- 10. Spot network trends

1. Preconfigure switches for zero-touch deployment

Cisco Meraki MS switches are 100% cloud-managed and can be fully configured from any Internet-accessible location before ever being powered on. Simply add the switch serial number (or order number for large deployments) to your network using the Meraki web-based dashboard. Once added, the switch is fully configurable. When the switch is first powered on and connected to the Internet, it will pull its settings from the cloud.

	organization's inventory. W u claim a device by its seria our network(s).				
Q2AP-7VDF-DTWP					Claim
MAC address	Serial number	Model	Claimed on	Order number	Country
 00:18:0a:53:01:13 Add switches 	Q2AP-7VDF-DTWP	MS22	8/15/2013 12:24 PM		

Adding new MS switch hardware to a branch location in the Cisco Meraki dashboard.

Status A Name Connectivity LAN IP MAC address Model # active ports # por	s Tags

Newly-added switches are fully configurable in the Cisco Meraki dashboard — even before being powered on.

True zero-touch provisioning divorces switch setup from the precondition of physical hardware access. This frees technical staff from travel obligations to remote sites to manually configure switching infrastructure, saving time and money.

2. Manage all switch ports from a single pane of glass

Imagine: you need to reset ports numbered 20-48 (if they are connected to MR24 access points) on all of your switches. You must enable PoE, set a power-saving port schedule, prune all VLANs except VLAN 10, and ensure that these are trunk — not access — ports. How long would that take you?

Meraki MS switches let you succeed in this scenario from your office chair. The dashboard supports intelligent search queries on variables like port type, VLAN, uplink status, port access policy status, and tags:

Switch ports for the last day -									
Edi	t Aggre	egate Split	Mirror	Unmirror	vlan:"110" AND link:"1 Gb	ops"	help 181 sw	itch ports	
	Switch / Port	Switch	Name	Туре	Link 🚯	VLAN ()	Status 🚯 Tag	s 🛈	
	<u>BD-A-</u> 5.1.1 / 7	BD-A-5.1.1		access	Auto negotiate (1 Gbps)	110		enable	
	<u>BD-A-</u> 5.1.1 / 12	BD-A-5.1.1	ITTEST02	access	Auto negotiate (1 Gbps)	110		enable	
	BD-A- 5.1.1 / 31	BD-A-5.1.1		access	Auto negotiate (1 Gbps)	110		enable	
	<u>FD-</u> <u>1.1.03 /</u> 1	FD-1.1.03	Cisco Alpha	access	Auto negotiate (1 Gbps)	110, voice 110		disable	
	<u>FD-</u> <u>1.1.03 /</u> <u>2</u>	FD-1.1.03	Cisco Alpha	access	Auto negotiate (1 Gbps)	110, voice 110		disable	
	<u>FD-</u> <u>1.1.03 /</u> <u>4</u>	FD-1.1.03		access	Auto negotiate (1 Gbps)	110, voice 110		enable	
	<u>FD-</u> 3.1.02 / 28	FD-3.1.02		access	Auto negotiate (1 Gbps)	110, voice 104		enable	
	<u>FD-</u> 3.1.02 / 29	FD-3.1.02		access	Auto negotiate (1 Gbps)	110, voice 104		enable	
	FD- 3.1.02 /	FD-3.1.02		access	Auto negotiate (1 Gbps)	110, voice 104		enable	

Dynamically filter for a list of switch ports across models and physical switch locations.

You can specify a subset of switch interfaces (up to 10,000 ports) by using these search criteria and then modify these selected ports at once.

Swit	ch po	orts for t	the last da	y –						
Edit	Edit Aggregate Split Mirror Unmirror is:trunk lldp:"MR32" 1-20 * help 4 switch por							witch ports		
	witch Port	Switch	Name	Type (1)	Link 🕲	VLAN ()	Status 📵	Tags	CDP/LLDP	POE
□ <u>4.1</u> <u>13</u>	<u>)-</u> 2.02 / }	FD-4.2.02	B3 AP	trunk	Auto negotiate (1 Gbps)	native 128			<mark>∦</mark> <u>B3 14D0</u> A	enable
<u>F</u> <u>4.2</u> <u>20</u>	<u>)-</u> 2.02 / 2	FD-4.2.02	MR3TWO	trunk	Auto negotiate (1 Gbps)	native 128		<u>A1</u>	<mark>ਡ</mark> <u>A2 4F40</u> ₿	enabl
□ <u>5.</u> 2	<u>)-</u> 2.02 /	FD-5.2.02		trunk	Auto negotiate (1 Gbps)	native 128		AP Corp	<mark>∑ 5 G6 - E</mark>	enabl
<u>FC</u> <u>5.7</u> <u>16</u>	3.02 /	FD-5.3.02		trunk	Auto negotiate (1 Gbps)	native 128			<mark>ਡ</mark> <u>5 J4 - E</u>	enabl

Easily select ports 1-20 servicing MR32 access points that are configured as trunks.

3.3 / 15	access	110,	union 404 Auto nonoti	ata (100 Minas)tid - and	hind	Shoretel SN:001
3.3 / 13	access	110	Update 200 ports		×	Shoretel SN:001
3.2 / 12	access	110,			- 10	Shoretel SN:001
3.2/11	access	110				Kevin's Deskte
3.1 / 12	trunk	nativ	Switch ports:	FD 5.3.6/15 FD 5.3.6/13	- 65	5 <u>5 G4</u>
<u>2.9 / 13</u>	access	110		FD 5.3.3/15		Shoretel SN:001
2.8 / 14	access	110	Name:	Multiple values	- 68	Shoretel SN:001
<u>2.8 / 13</u>	access	110	Tags:	Multiple values	- 10	Shoretel SN:001
2.8 / 12	access	110	Enabled:	enabled \$	- 64	Shoretel SN:001
<u>2.8 / 11</u>	access	110,	RSTP:	enabled ‡	- 10	Shoretel SN:0010
2.6 / 12	access	110	STP guard:	disabled \$	- 64	Shoretel SN:001
<u>2.6 / 10</u>	access	110	POE: ()	enabled \$		Shoretel SN:0010
2.5 / 15	access	110,	Link:	auto ‡	- 10	Shoretel SN:0010
2.5 / 14	access	110,	Port schedule:	Energy Savings 💠	- 12	Shoretel SN:001
2.4 / 15	access	110	Type:	access 🛟	- 68	Shoretel SN:001
2.4 / 14	access	110	Access policy:	Open ‡	- 10	Shoretel SN:001
2.4 / 10	access	110	MAC Whitelist	disabled \$	- 68	Shoretel SN:001
2.3 / 13	access	108,	VLAN:	10		Shoretel SN:001
2.3/11	access	108,	Voice VLAN:	Multiple values	- 65	Shoretel SN:001
2.2 / 13	access	108				Shoretel SN:001
<u>2.2/11</u>	access	108,		Cancel Update 200 ports		Shoretel SN:001
<u>2.1 / 13</u>	trunk	nath	-			🕺 <u>4.A2</u>

Updating 200 interfaces to enable PoE, apply a port schedule, and ensure they are all trunk ports.

3. Run remote cable tests and packet captures

The Cisco Meraki dashboard offers real-time diagnostics and tools to troubleshoot your MS switches. You can easily perform cable tests to ascertain cable length and to check the health of the wire connecting a client device to your switch.

Close MS250-48FP	t 4.1.7 00:18:0a:12:34:56	649		Sum	mary	Ports	Power	Event log	Loca	tion T	bols 1
LAN IP	10.92.129.200 (via DHCP) 🖉	Select a	a tool:	Cable t	est 🕶					
VLAN	128		Warning: T	his test will	disrupt t	raffic to '	100 or 10 N	/bit devices.			
Public IP	184.23.135.130		39,45		Ru	in cable t	test				
Gateway	10.92.129.254										
DNS	10.92.129.117 10.92.131.26		Testing	the cabl	es at	tache	d to po	rts <i>39,4</i> 3	5 2		
LAN IPv6	Not configured		Port	Link	Length	h	Status	Pair 1	Pair 2	Pair 3	Pair 4
Serial numbe	r QAB2-B2QA-ABQ2		39	1Gfdx	48 m		ок	ok	ok	ok	ok
Address		(M ^R	45	1Gfdx	57 m		ок	ok	ok	ok	ok

Several real-time diagnostic tools are available within the dashboard, including cable tests.

Deep visibility built into the clients and traffic passing through your fabric let you quickly surmise the layer 1-3 health status of connected devices, whether they've received IP addresses, are on the appropriate VLAN, etc.

Status:	currently connected send	WOL O			
Switch / port:	Closet 5.2.9 / 39 (topology)				
Device type: Notes:	Intel Windows 7/Vista				
1101001	event log packet capture	add note			
Usage for t	the last 30 days 🗸			3.03 TB (↓ 34.34 GB, † 3 TB)	Applications
32 Mb/s 24 Mb/s 16 Mb/s 8 Mb/s 0 Mb/s		MM	M	MMM	
,	Nov 19 Nov 22 Nov	25 Nov 28 Dec 01	Dec 04 Dec 07	Dec 10 Dec 13 Google H 3.0 TB (↓ 23.	4 GB, ↑ 3.0 TB)
	Network			Ping 🕨	
	IPv4 address: IPv6 address (link-local): MAC address: VLAN:	10.92.135.11 fe80:0:0:0:6944:76f5:f59b:6c89 4c:34:88:03:49:4f 132		80 ms 40 ms 0 ms Loss rate: – Average latency: –	

Quickly see status for client devices passing traffic through your switch fabric.

You also can take live, streaming packet captures from anywhere in the world you have Internet access. The Cisco Meraki dashboard lets you display packet captures within the dashboard, save captures to a PCAP file for later viewing with industry standard software, or stream the PCAP file to a CloudShark appliance.

Packet capture for switches -	
Switch: Closet 5.2.1 *	Sample filter expressions
Ports: 1-20 Output: View output below • Duration (secs): 60 Verbosity: Low • Ignore: broadcast packets multicast packets Filter expression:	host 10.1.27.253 packets to and from ip address 10.1.27.253 host 10.1.27.253 and port 53 packets to and from ip address 10.1.27.253 and TCP or UDP port 53 (DNS) icmp[icmptype] I= icmp-echo and icmp[icmptype] I= icmp-echoreply all ICMP packets that are not echo requests/replies (i.e., not ping packets): ether host 11:22.33:44:55:66 packets to and from ethernet host 11:22:33:44:55:66 See more <u>examples</u> . The maximum packet capture duration is 1200 seconds. This capture will stop after 60 seconds, or when 5000 packets have been captured. Client traffic statistics will not be recorded while the packet capture is running.
	length 52 52 52 97 /aptop.local. PTR (QM)? _hornekit_top.local. (128) 1 WF-3520 Seriesipptop.local. TXT (QM)? EPSON WF-3520 Seriesipptop.local. (60) length 52 52

The packet capture tool allows deep analysis of traffic flowing through switch interfaces.

4. Identify and locate switch ports

Meraki Topology – a dynamic logical map of the entire network and all connected Meraki devices, lets you see exactly how things are connected. A simple mouse-over and you know exactly how a switch is interconnected. The dynamic search lets you enter in the name or even status of a switch to filter the topology based on your search terms.



Topology showing the interconnect between a closet stack and an alerting access switch

Locating where an Ethernet wall jack terminates is as easy as connecting your laptop to the jack, opening a web browser, and navigating to **switch.meraki.com**. This URL directs to a locally-hosted page on the upstream switch that advertises the switch's name, model, MAC, IP, and on which port the wall jack terminates.

	cisco	Meraki	
			_
Connection	Uplink configuration		

This local switch page shows the tested wall jack terminates on port 13 of our MS350 switch.

5. Identify bandwidth hogs

The Meraki dashboard will display sortable, searchable information on clients, devices, and application usage. A Google-like contextual search allows you to dynamically filter clients by device type (e.g. "iPad" or "Android HTC"), operating system, MAC, IP address, username, or device name.



Deep layer 7 visibility gives MS switches insight into the types of devices and applications passing traffic.

Drill down deeper into any application or connected client to view specific usage patterns for it.

	22003 7 d since Sep 17 16:34 35dB (channel 3	6)	+ Gulf of t Farallon Marine Sand	he es	Valley Sa Francisco	creek	ville Bru Ramon F	Map Satellite Ushy Peak Regional Preserve
(802.1x login Device type: Intel Window Capabilities: 802.11n - 2.4	s 7		Coogle 10	km] mi	Daly City Pacifica	Hayward Union Ci Free Map data, p2013 G		nore Report a map error
.6 Mb/s .2 Mb/s .8 Mb/s						4.76 GB (↓ 4.25 GB	↑ 514.8 MB)	Applications
0 Mb/s Sep 11	Sep 12	Sep 13	A	p 14	Sep 15	Sep 16	1	s. <u>« hide details</u>
	Sep 12 Protocol	Sep 13 Port		0 14 Usage ▼	Sep 15 Sent	Sep 16 Received		s <u>« hide details</u> Active time
0 Mb/s Sep 11 Destination			Sej				Flows	Active time
0 Mb/s Sep 11 Destination	Protocol	Port	Ser % Usage	Usage *	Sent	Received	Flows 7398	Active time
0 Mb/s Sep 11 Destination Gmail	Protocol	Port	Ser % Usage 22.2%	Usage ▼ 1.18 GB	Sent 80.9 MB	Received 1.10 GB	Flows 7398 3	Active time 44 hours 6.7 hours
o Mb/s Sep 11 Sep 11 Gmail	Protocol - TCP	Port - 31659	Sei % Usage 22.2% 20.4%	Usage ▼ 1.18 GB 1.09 GB	Sent 80.9 MB 79.7 MB	Received 1.10 GB 1.01 GB	Flows 7398 3 10	Active time 44 hours 6.7 hours
o Mb/s Sep 11 Sep 11 Gmail	Protocol - TCP TCP	Port - 31659 19432	Sej % Usage 22.2% 20.4% 9.5%	Usage ▼ 1.18 GB 1.09 GB 521.2 MB	Sent 80.9 MB 79.7 MB 12.9 MB	Received 1.10 GB 1.01 GB 508.3 MB	Flows 7398 3 10 3	Active time 44 hours 6.7 hours 1.6 hours
o Mb/s Sep 11 Destination Gmail	Protocol - TCP TCP TCP TCP	Port - 31659 19432 19432	Sej % Usage 22.2% 20.4% 9.5% 8.5%	Usage ▼ 1.18 GB 1.09 GB 521.2 MB 462.9 MB	Sent 80.9 MB 79.7 MB 12.9 MB 11.0 MB	Received 1.10 GB 1.01 GB 508.3 MB 451.9 MB	Flows 7398 3 10 3 3	Active time 44 hours 6.7 hours 1.6 hours 1.3 hours 7 minutes
o Mb/s Sep 11 Destination Gmail	Protocol TCP TCP TCP TCP TCP	Port - 31659 19432 19432 80	Sej % Usage 22.2% 20.4% 9.5% 8.5% 7.0%	Usage ▼ 1.18 GB 1.09 GB 521.2 MB 462.9 MB 381.3 MB	Sent 80.9 MB 79.7 MB 12.9 MB 11.0 MB 2.3 MB	Received 1.10 GB 1.01 GB 508.3 MB 451.9 MB 379.1 MB	Flows 7398 3 10 3 3 5606	Active time 44 hours 6.7 hours 1.6 hours 1.3 hours 7 minutes
o Mole Sep 11 Destination Graal	Protocol TCP TCP TCP TCP TCP	Port - 31659 19432 19432 80 -	Sej % Usage 22.2% 20.4% 9.5% 8.5% 7.0% 4.4%	Usage V 1.18 GB 1.09 GB 521.2 MB 462.9 MB 381.3 MB 241.6 MB	Sent 80.9 MB 79.7 MB 12.9 MB 11.0 MB 2.3 MB 193.0 MB	Received 1.10 GB 1.01 GB 508.3 MB 451.9 MB 379.1 MB 48.6 MB	Flows 7398 3 10 3 3 5606 11	Active time 44 hours 6.7 hours 1.6 hours 1.3 hours 7 minutes 16 hours 3 minutes
o Mola <u>Sep 11</u> Destination Graal	Protocol - TCP TCP TCP TCP - TCP	Port - 31659 19432 19432 80 - 80	Sej % Usage 22.2% 20.4% 9.5% 8.5% 7.0% 4.4% 3.1%	Usage V 1.18 GB 1.09 GB 521.2 MB 462.9 MB 381.3 MB 241.6 MB 169.1 MB	Sent 80.9 MB 79.7 MB 12.9 MB 11.0 MB 2.3 MB 193.0 MB 762 KB	Received 1.10 GB 1.01 GB 508.3 MB 451.9 MB 379.1 MB 48.6 MB 168.4 MB	Flows 7398 3 10 3 3 3 5606 11 11	Active time 44 hours 6.7 hours 1.6 hours 1.3 hours 7 minutes 16 hours 3 minutes
o Mole <u>Loobour</u> Month Sep 11 Omail WebEx YouTube	Protocol - TCP TCP TCP TCP - TCP -	Port - 31659 19432 19432 80 - 80 -	Sej % Usage 22.2% 20.4% 9.5% 8.5% 7.0% 4.4% 3.1% 2.0%	Usage V 1.18 GB 1.09 GB 521.2 MB 462.9 MB 381.3 MB 241.6 MB 169.1 MB 109.1 MB	Sent 80.9 MB 79.7 MB 12.9 MB 11.0 MB 2.3 MB 193.0 MB 762 KB 1.0 MB	Received 1.10 GB 1.01 GB 508.3 MB 451.9 MB 379.1 MB 48.6 MB 168.4 MB 108.0 MB	Flows 7398 3 10 3 5606 11 11 135 1	Active time 44 hours 6.7 hours 1.6 hours 1.3 hours 7 minutes 16 hours 3 minutes 33 minutes
o Mb/s Sep 11	Protocol - TCP TCP TCP TCP - TCP - TCP	Port 31659 19432 19432 80 - 80 - 31659	Sey % Usage 22.2% 20.4% 9.5% 8.5% 7.0% 4.4% 3.1% 2.0% 1.5%	Usage V 1.18 GB 1.09 GB 521.2 MB 462.9 MB 381.3 MB 241.6 MB 169.1 MB 109.1 MB 82.0 MB	Sent 80.9 MB 79.7 MB 12.9 MB 11.0 MB 2.3 MB 193.0 MB 762 KB 1.0 MB 5.4 MB	Received 1.10 GB 1.01 GB 508.3 MB 451.9 MB 379.1 MB 48.6 MB 168.4 MB 108.0 MB 76.6 MB	Flows 7398 3 10 3 3 5606 11 135 1 1 256	Active time 44 hours 6.7 hours 1.6 hours 1.3 hours 7 minutes 3 minutes 33 minutes 35 minutes
o Moles <u>Versen</u> Sep 11 Destination Gmail WebEx YouTube Pandora	Protocol - TCP TCP TCP - TCP - TCP - TCP -	Port	Sep % Usage 22.2% 20.4% 9.5% 8.5% 7.0% 4.4% 3.1% 2.0% 1.5% 1.2%	Usage V 1.18 GB 1.09 GB 5212 MB 462.9 MB 381.3 MB 241.6 MB 169.1 MB 109.1 MB 82.0 MB 67.7 MB	Sent 80.9 MB 79.7 MB 12.9 MB 11.0 MB 2.3 MB 193.0 MB 762 KB 1.0 MB 5.4 MB 1.1 MB	Received 1.10 GB 1.01 GB 508.3 MB 451.9 MB 379.1 MB 48.6 MB 168.4 MB 108.0 MB 76.6 MB 66.7 MB	Flows 7398 3 10 3 3 5606 11 11 135 1 1 256 2 2	Active time 44 hours 6.7 hours 1.6 hours 1.3 hours 7 minutes 16 hours 3 minutes 33 minutes 35 minutes 1.8 hours
o Mey Sep 11 Bestination Graal WebEx YouTube Pandora	Protocol - TCP TCP TCP - TCP - TCP - TCP - TCP	Port	Ser % Usage 22.2% 20.4% 9.5% 7.0% 4.4% 3.1% 2.0% 1.5% 1.2%	Usage V 1.18 GB 1.09 GB 521.2 MB 462.9 MB 381.3 MB 241.6 MB 169.1 MB 109.1 MB 82.0 MB 67.7 MB 65.7 MB	Sent 80.9 MB 79.7 MB 12.9 MB 11.0 MB 13.0 MB 762 KB 1.0 MB 5.4 MB 1.1 MB 351 KB	Received 1.10 GB 1.01 GB 508.3 MB 379.1 MB 48.6 MB 168.4 MB 108.0 MB 76.6 MB 66.7 MB 65.3 MB	Flows 7398 3 10 3 5606 11 135 1 2 2 2 21	Active time 44 hours 6.7 hours 1.6 hours 1.3 hours 7 minutes 16 hours 3 minutes 33 minutes 35 minutes 1.8 hours 2 minutes

The Meraki dashboard displays rich details about clients and applications.

6. Save energy and increase wired security

You may want to disable ports to save energy during off-peak hours or to prevent devices from accessing your network. Set schedules for a range of ports based on pre-configured templates or any timing of your choosing.

Energy Saving	S	used by <u>0</u> ports						
New Port Sche	edule	used by <u>0</u> ports						
Templates: 8	to 5 daily 8 to 5	on weekdays only weekd	ays only	always	on alw	ays off		
Day Monday	Status enabled ‡	During 8:00 \$ 17:00 \$	0:00	4:00	8:00	12:00	16:00	20:00
Tuesday	enabled \$	8:00 \$ 17:00 \$	0:00	4:00	8:00	12:00	16:00	20:00
Wednesday	enabled ‡	8:00 \$ 17:00 \$	0:00	4:00	8:00	12:00	16:00	20:00
Thursday	enabled ‡	8:00 + 17:00 +	0:00	4:00	8:00	12:00	16:00	20:00
			0:00	4:00	8:00	12:00	16:00	20:00
Friday	enabled \$	8:00 ÷ 17:00 ÷	0:00	4:00	8:00	12:00	16:00	20:00
Saturday	disabled \$	6:30 \$ 24:00 \$	0:00	4:00	8:00	12:00	16:00	20:00
Sunday	disabled \$	0:00 \$ 24:00 \$						

Port schedules prevent access to the switching fabric at the times you specify.

Applying port schedules to a range of switch interfaces takes less than 2 minutes using the Meraki dashboard. Apply policies to any port, regardless of switch model or geographic location, from anywhere in the world you have Internet access.

7. Contain rogue DHCP servers

MS switches perform DHCP snooping to identify which devices are responding as DHCP servers on your network, letting you automatically detect and block unauthorized, rogue devices. In the image below, for example, we've blocked all DHCP servers by default except for our authorized server with MAC address aa:bb:cc:dd:ee:ff. Combined with automatic detection alerts, this secures us from rogue servers which may be added to the network at any time.

DHCP servers									
Configure DHCP servers	DHCP servers running on layer	3 switches in this r	network	can be configu	red on the Rou	iting and DH	<u>ICP</u> pag	e.	
Email alerts	Send an email if a new DHCP serve	er is seen \$							
Default DHCP server policy	Block DHCP servers \$ Note: Switches with configured DHCF	e servers are <i>always</i> all	lowed.						
Allowed DHCP servers ()	aa:bb:cc:dd:ee:ff								
DHCP servers for the last 2 hours -	Description	MAC	VLAN	Subnet	IP	Last seen	Recent packet	Policy *	+
	SD-WAN Security 1	00:18:0a:00:00:00	108	10.92.108.0/23	10.92.109.254	3 minutes	<u>view</u> packet	blocked	
	CORE 1 (interface CORP WIFI)	88:15:44:00:00:00	132	10.92.132.0/22	10.92.135.254	38 seconds	view packet	allowed (configured	i server)
	CORE 1 (interface Cisco Voice)	88:15:44:00:00:00	104	172.16.20.0/23	172.16.21.254	60 seconds	view packet	allowed (configured	i server)
	10 ¢ results per page							٩1	2 🕨

"Set it and forget it" rogue DHCP server containment, built into every Meraki MS switch.

8. Lock down switch access

All Meraki MS switches support 802.1X wired authentication, enabling port-based access policies that enforce authentication via user credentials or device MAC address.

If a RADIUS server has been defined, users or devices that are not recognized are automatically placed into a guest/remediation VLAN, eliminating any potential security risk to the network.

Access policies						
Access policies						
Name	Acc	ess policy #1				
RADIUS servers (0)	#	Host	Port	Secret	Actions	
	1	10.5.3.1	5060	•••••	↔ X	Test
	Add	a server				
RADIUS testing	RAI	DIUS testing disabled				
Guest VLAN (15					
Voice VLAN clients	Rec	uire authentication ᅌ				
Switch ports	Ther	e are currently 0 Swite	<u>h ports</u> us	ing this policy		
Remove this access policy						
Add an access policy						

Secure your wired network by requiring user or device-based authentication.

9. Keep current with seamless updates

Firmware and dashboard updates are pushed seamlessly from the cloud to all your Cisco Meraki devices without any pre-staging, manual downloads, or trips onsite to install patches. Every quarter, new features are released; this feature velocity future-proofs your hardware investment.

You choose the date and time to apply your switches' firmware updates — or you can opt out entirely.

Firmware upgrades	
Try beta firmware	No + What is this?
Upgrade window	Wednesday + 12am + What is this?
Switches upgrade	The switches in this network are configured to run the latest available firmware. Last upgraded on Saturday, June 22, 2013 at 20:43 PDT.
	Upgrade as scheduled.
	Reschedule the upgrade to: at PST
	⊖ Perform the upgrade now.

Seamless updates save you time otherwise spent manually downloading and applying patches.

10. Spot network trends

Summary reports display useful trend digests. Quickly spot top applications, power consumption hogs or clients, and devices that are consuming bandwidth over the period of the report. Email a copy of the report to yourself or others, or schedule a regular report to be sent to your inbox.



Summary reporting distills large amounts of statistical detail into a "big picture" that is easily digested and shared.

Meraki MS switches provide detailed, searchable logs as well as digestible summary reports on trend statistics. Change logs track every configuration made to your switches, by whom, by date. Built-in, Google-like contextual search lets you quickly focus on only those events you want to see.

The second second second second				
"may 09" switch VL	AN: 128 cl 3 changes in	n 4894 changes dating back to Jul	25 2012 load more changes	
Time (UTC) 🔻	Admin	Network	Old value	New value
			Removed: Native VLAN: 1	Added: VLAN: 12

We've searched here for all changes to our switching fabric performed on May 9th by "Chris" that affected VLAN 128.

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