Cisco Meraki AP / MX / Z1

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Open a web browser and log in to your Meraki dashboard at https://dashboard.meraki.com

Click on "Configure" on the left menu

Click "Access Control" on the left menu and configure with the below settings:

Access control							
SSID:	¥						
Network access							
Association requirements	 Open (no encryption) Any user can associate Pre-shared key with WPA2 ▼ Users must enter a passphrase to associate MAC-based access control (no encryption) RADIUS server is queried at association time WPA2-Enterprise with Merali authentication ▼ User credentials are validated with 802.1X at association time 						
Splash page	 None (direct access) Users can access the network as soon as they associate Click-through Users must view and acknowledge your splash page before being allowed on the network Sign-on with <u>myRADIUS server</u> Users must enter a username and password before being allowed on the network Sign-on with SMS Authentication ^{BETA} Users enter a mobile phone number and receive an authorization code via SMS. After a trial period of 25 texts, you will need to connect with your Twilio account on the <u>Network-wide settings</u> page. Billing (paid access) Users choose from various pay-for-access options, or an optional free tier Systems Manager Senty Only devices with Systems Manager can access this network 						
Incologi ni spiasi page	# Host	Port	Secret	Show se	Status	Actions	Test
	Add a server						1 Con
RADIUS accounting	RADIUS accounting is enabled	•					
RADIUS accounting servers	# Host	Port	Secret		Status	Actions	
-	1 red1 purphepentel.	1010		Show se	cret	ψX	
	Add a server						
IP addresses	The Meraki cloud must be able to communicate with your RADIUS servers via the Internet.						
	Place make sure that						
	 Your RADIUS service Your firewall, if an 3. You whitelist the f 	ers have pub iy, allows inc ollowing IP a	blic IP addresses (i.e., they an coming traffic to your RADIUS addresses as clients on your F	e reachable on the Int servers. ADIUS server: 46.165	ernet). .249.11, 64.	156.192.24	5, 72.249
Failover policy	If none of your RADIUS servers are reachable, should clients be allowed to use the network? Beny access Allow access						
Load balancing policy	 Strict priority order Round robin 						

- Association Requirements: Open (no encryption)
- Splash page: Sign-on with my RADIUS server

• RADIUS for splash page:

click Add a Server and add:

Host: *insert radius_server here* Port: 1812 Secret: *insert radius_secret here*

click Add a Server again and add:

Host: *insert radius_server2 here* Port: 1812

Secret: *insert radius_secret here*

Note: When you enter the radius server you may see and error: "*Host for RADIUS is not a valid IP address*." This is an expected error message, the field prefers an IP address but will still work with a domain name in this field.

• **RADIUS accounting:** RADIUS accounting is enabled

• RADIUS accounting servers:

click Add a Server and add:

Host: *insert radius_server here* Port: 1813 Secret: *insert radius_secret here*

click Add a Server again and add:

Host: *insert radius_server2 here* Port: 1813

Secret: *insert radius_secret here*

Note: You may not see the option to set up the RADIUS accounting. If this is the case please raise a Meraki support case via **Help** -> **Cases** -> **New Case** asking them: "Please can you enable RADIUS accounting on my account"

Note 2: The Meraki MX/Z1 does not support accounting, so please skip this step.

Network access control	Disabled; do not check clients for antivirus software *					
Assign group policies by device type	Disabled: do not assign group policies automatically					
Captive portal strength	Block all access until sign-on is complete X					
Walled garden	Walled garden is enabled T					
Walled garden ranges	• _ apoglappe tell.com • _ apoglape tell.co					
Simultaneous logins 0	Allow simultaneous devices per user 💌					
Controller disconnection behavior	Login attempts on this SSID will be processed by the Meraki Cloud Controller. What should happen to new clients if your Internet uplink is down or the controller is otherwise unreachable? Copen: devices can use the network without signing in, unless they are explicitly blocked Restricted: only currently associated clients and whitelisted devices will be able to use the network Copendition of the controller is otherwise unreachable? Copendition of the controller is otherwise unreachable? Copendition of the network without signing in, unless they are explicitly blocked Copendition of the controller is otherwise unreachable? Copendition of the network without signing in, unless they are explicitly blocked Copendition of the network without signing in the solution of the network Copendition of the network without signing in the solution of the network Copendition of the network without signing in the solution of the network solution					
Bandwidth limit controls	The Per-device bandwidth limit ④ and Total SSID bandwidth limit ④ controls moved to the <u>Firewall and traffic shaping page</u> . Choose a default per-device bandwidth imit. Your RADIUS server can override this value. <u>Explain mote</u>					
Whitelist & and blocked	Whitelisted and <u>blocked</u> devices are set on the clients page. The default block message moved to <u>Network-wide settings</u> .					
Addressing and traffic						
Client IP assignment	AT mode: Use Meraki DHCP Clients receive IP addresses in an isolated 10.0.0.0/8 network. Clients cannot communicate with each other, but they may communicate with devices on the wired LAN if the <u>SSID firewall settings</u> permit. Bridge mode: Make clients part of the LAN Meraki devices operate transparently (no NAT or DHCP). Clients receive DHCP leases from the LAN or use static IPs. Use this for shared printers, file sharing, and wireless cameras. VPN: tunnel data to a concentrator Meraki devices send traffic over a secure tunnel to an MX or VM concentrator. Layer 3 noming ^{Mal} Clients are tunneled to a specified VLAN at the concentrator. They will keep the same IP address when roaming between APs.					
VLAN tagging Bridge mode only	Don't use VLAN tagging 💌					

- Enable data-carrier detect: Disabled
- **Captive portal strength**: Block all access until sign-on is complete
- Walled garden: Walled garden is enabled

Note: You may see an error saying the walled garden entry is invalid. If this is the case please raise a Meraki support case via **Help** -> **Cases** -> **New Case** ask they, "Please can you enable domain based walled garden support".

• Walled garden ranges - Copy and paste the list below

*.*insert access_domain here* *.meraki.com www.google.com www.google.co.uk *.google-analytics.com *.venuewifi.com *.openweathermap.org

*.cloudfront.net

If you wish to support social network logins, you also need to add the domains below for each network you plan to support

Facebook	Twitter	LinkedIn	Google	Instagram
*.facebook.com *.fbcdn.net	* twitter com	* linkadin com	*.googleusercontent.com	
*.akamaihd.net	*.twimg.com	*.licdn.net *.licdn.com	*.googleapis.com *.accounts.google.com *.gstatic.com	*.instagram.com

Note : The Meraki MX/Z1 does not support the Client IP assignment or DNS settings, so please skip this step.

• Client IP assignment NAT mode: Meraki DHCP

Content filtering NAT mode only	Custom DNS T
DNS Servers	(one xx.xx.xx IP address per line - max 2 servers)
Bonjour forwarding Bridge mode only	Disable Bonjour Forwarding T
Wireless options	
Legacy 11b operation	Disable legacy 11b bitrates (1, 2, & 5.5 Mbps) ▼

	Save Changes	or <u>cancel</u>
(Please a	Now 1-2 minutes for cl	hanges to take effect.)

- **Content filtering**: Custom DNS:
- DNS Servers:

208.67.222.222 208.67.220.220

Click on "Save Changes"

Click on "Splash page" on the left and configure with the below settings:

Splash page

SSID: Guest Wi-Fi	•
	Splash pages on this SSID are enabled because custom RADIUS authenticatio
Official themes	
Fluid (mobile friendly) new	
Classic	
Plain	
Custom themes	
Create something new	
Custom splash URL	
Or provide a URL where us	ers will be redirected:
What is this?	
Customize your page	
Message	
Splash logo	No logo Upload a logo
Splash language	English
Splach behavior	
Splash bellavior	
Splash frequency	Every day Vhat is this?
Where should users go after the splash page?	A different URL:

- Custom splash URL: *insert access_url here*
- Where should users go after the splash page?: A Different URL: *insert redirect_url here*

Click: Save