

Installing a Meraki Z1/Z3 VPN

On both Com and Managed Dre

Z1 and Z3

- The most common VPN's that we currently work with are the Cisco Meraki Z1 and the Z3.
- Both have a single indicator light on the front that will change colors while attempting to connect and then settle on either white or orange.
- A solid white light indicated that the VPN was able to connect
- A solid orange light indicates that the VPN was not able to connect
- The Meraki Z1 is silver while the Meraki Z3 is black



What's needed

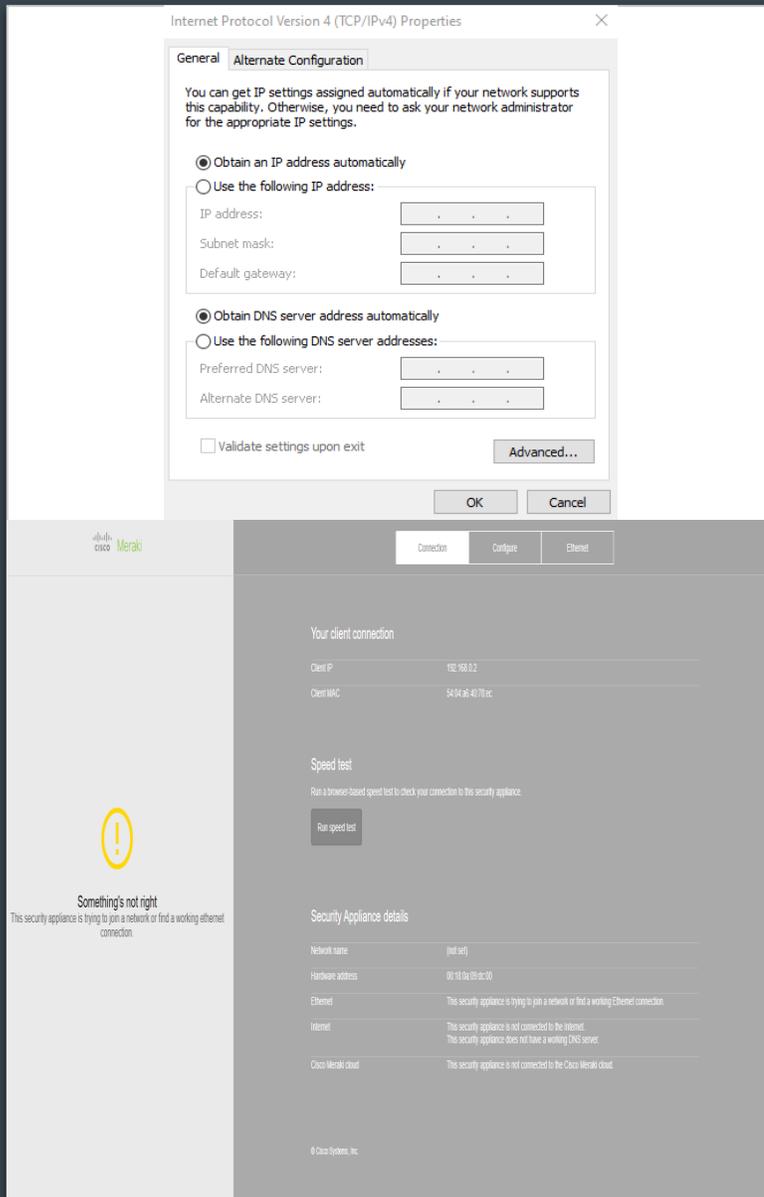
In order to install and properly configure the Meraki in a property we require some information from them.

- Public Static IP Address – This IP address has to be from the ISP and prior to any firewalls. The property can not NAT or Port forwarded this Address.
- Subnet Mask
- Default Gateway
- DNS 1
- DNS 2
- Where we will need to connect to have a prior to the firewall connection point. Example: Directly to the modem, port 11 on a switch which has a direct connection.

Configuring the Meraki

- Before we install the Meraki Z1 or Z3 we need to configure it to the properties provided IP address.
- This needs to be done before connecting the Meraki to an Internet connection. If you connect the Meraki to the internet prior to configuring, you will be unable to connect as it will DHCP to a new IP address.
- If this happens then you can reset the Meraki by pressing the recessed reset button and holding it for 15 seconds on the Z1 until all the lights on the back turn on then turn back off. On the Z3 you will only need to hold the reset button for 10 seconds.





Configuring the Meraki Cont.

- Once you are ready you can connect the Meraki to your laptop via the Lan 1 port on the Z1 and Port 2 on the Z3.
- Once connected to your laptop make sure your IPv4 setting are set to DHCP.
- Now open a web Browser and connect to <http://wired.meraki.com> (Z1) or <http://setup.meraki.com> (Z3). Always try both addresses if the other does not work as some newer Z1 devices use the Z3 address.



Configure Page Navigation



Something's not right

Security appliance is trying to join a network or find a working ethernet

- Once you have connected to the Meraki home page you will need to navigate to the Configure page.
- Click on the Configure tab to navigate to the configure page.

Your client connection

Client IP	192.168.0.2
Client MAC	54:04:a6:40:78:ec

Speed test

Run a browser-based speed test to check your connection to this security appliance.

Run speed test

Security Appliance details

Network name	(not set)
Hardware address	00:18:0a:09:dc:00
Ethernet	This security appliance is trying to join a network or find a working Ethernet connection.
Internet	This security appliance is not connected to the Internet. This security appliance does not have a working DNS server.
Cisco Meraki cloud	This security appliance is not connected to the Cisco Meraki cloud.

Sign In

- Once you have clicked on the Configure tab to navigate to the configuration page you will be prompted to sign in.
- On the bottom of the Meraki you will see a SN which is the serial number for the unit.
- On the sign in prompt for the username enter the serial number exactly as it appears including the –
- Leave the Password field blank and click the Sign in button.



Sign in

<http://setup.meraki.com>

Your connection to this site is not private

Username

Password

Sign in

Cancel

Sign in

<http://setup.meraki.com>

Your connection to this site is not private

Username

Q2HN-TGKS-7Z73

Password

Sign in

Cancel



Something's not right

This security appliance is trying to join a network or find a working ethernet connection.

Uplink configuration

Configure the uplink Internet connection on this security appliance.

Internet

VLAN tagging

Connection type

IP assignment

Web proxy

HTTP will be used for the device to communicate with the Cisco Meraki cloud if UDP communication is blocked

Use a proxy?

Save

Configure Page

Once you have signed in you will be brought to the configuration page of the Meraki

Static IP



Something's not right

My appliance is trying to join a network or find a working ethernet connection.

- Using the drop-down window next to IP assignment set it from DHCP to Static
- More fields will appear allowing for more information.

Uplink configuration

Configure the uplink Internet connection on this security appliance.

Internet

VLAN tagging

Connection type

IP assignment ←

Address ←

Netmask ←

Gateway ←

DNS server 1 ←

DNS server 2 ←

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Something's not right

appliance is trying to join a network or find a working ethernet connection.

Enter the provided information

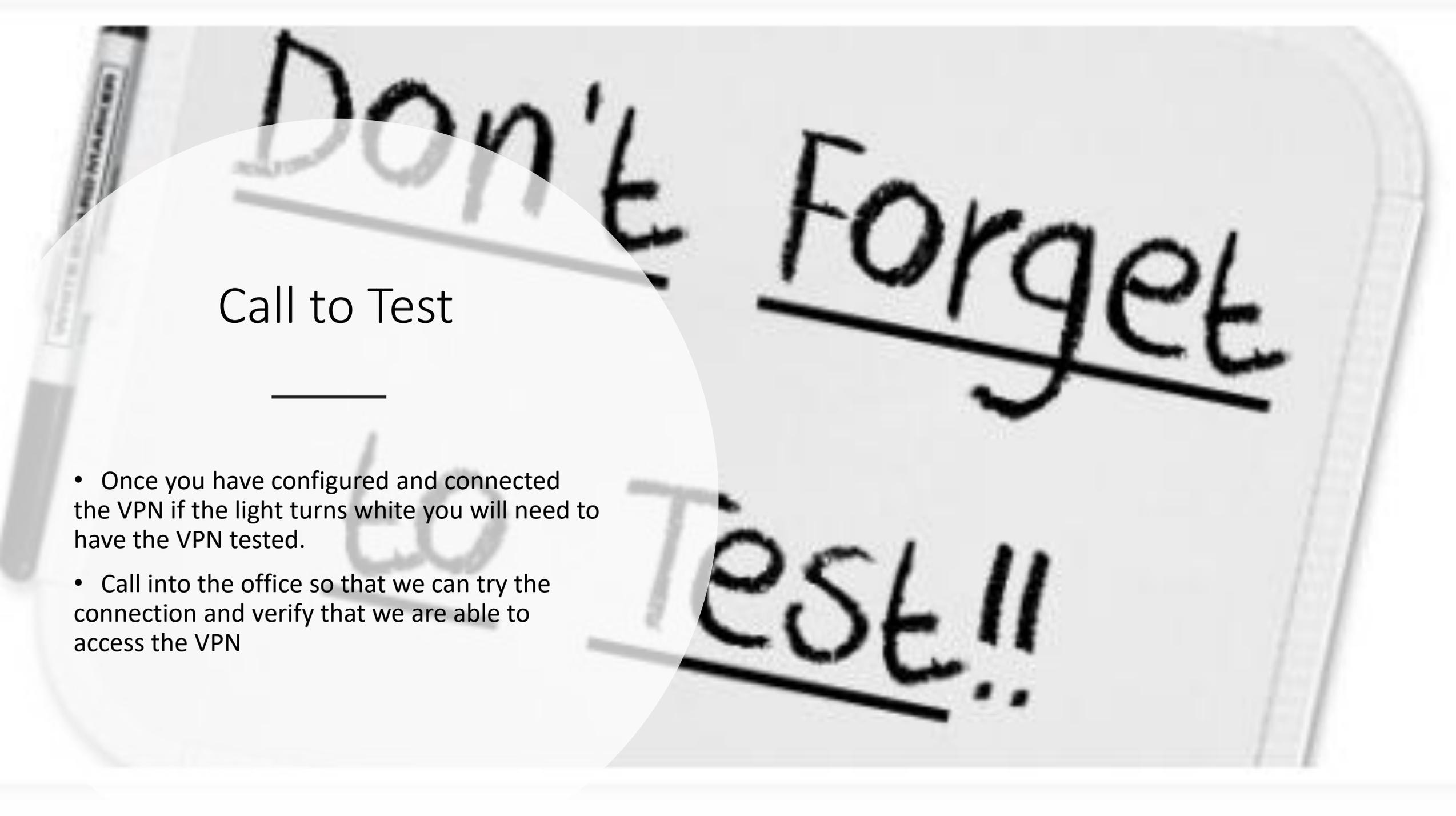
- Enter the provided information that the property has provided
- Once the information has been entered click the save button at the bottom of the screen





Connect the VPN to the
Internet

- Once you have the VPN configured you can connect it to the Internet via the provided connection point.
- You should begin to see the light on the front of the VPN go through a series of color. If the VPN is able to connect you will get a solid white light on the front of the unit.

The background of the slide is a grayscale image of a notebook page with handwritten text. The text is written in a thick, black marker. The words "Don't Forget" are written across the top, underlined. Below them, the word "Test!!" is also underlined. A white circular overlay is positioned on the left side of the page, containing the text "Call to Test" and a list of instructions. The notebook's binding is visible on the right edge.

Call to Test

- Once you have configured and connected the VPN if the light turns white you will need to have the VPN tested.
- Call into the office so that we can try the connection and verify that we are able to access the VPN

Connect to the System

- Once you have tested and verified that the VPN is working its time to connect it to the system.
- If connecting to the Com simply connect Lan 1 (Z1) or Port 2 (Z3) to one of the ethernet ports on the front of the Com chassis.
- If connecting to a managed Dre you will need to refer to the MDF switch model to determine the VPN port. Usually the VPN will connect to port 4 on the MDF switch.

