

How to complete Connected Business: set-up guide



 **Meraki**

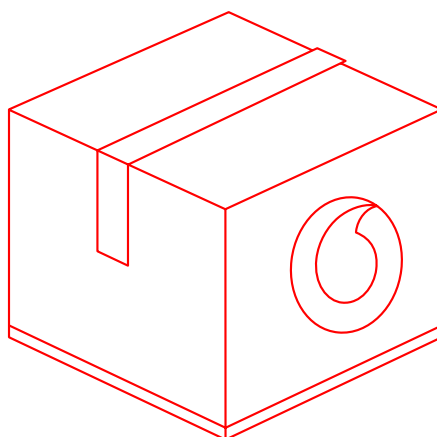
 **vodafone**
business

We will explain

- **How to set up the Meraki hardware**
- **Getting started with the dashboard**

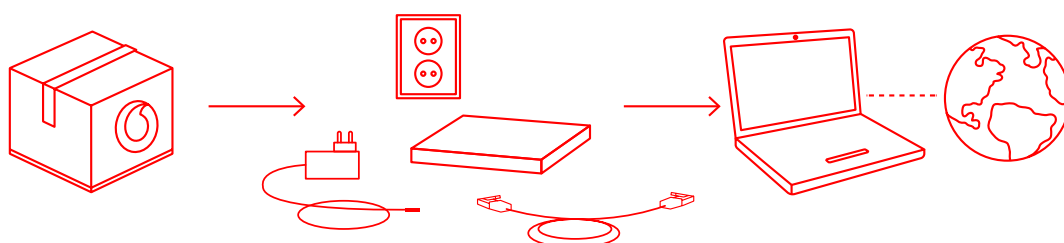
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1 First steps

1. Unpack and position your Meraki device.
2. Connect your Meraki device to a power source.
3. Make sure you have a working internet connection.



Safety and warnings

These steps are to be taken with respect to all local laws. Please take the following into consideration for safe operation.

- Power off the unit before you begin. Read the installation instructions before connecting the system to the power source.
- Before you work on any equipment, be aware of the hazards involved with electrical circuitry, and be familiar with standard practices for preventing accidents.
- Read the wall-mounting instructions carefully before beginning installation. Failure to use the correct hardware or to follow the correct procedures could result in a hazardous situation for people and damage to the system.
- This product relies on the building's installation for short-circuit (overcurrent) protection. Ensure that the protective device is rated not greater than 15 A, 125 V, or 10 A, 240 V.
- Please only power the device with the provided power cables or standard PoE to ensure regulatory compliance.



1 MS quick start – switch



Internet connection

Before an MS is added to a network, please make sure you have a working internet connection.



Default setting

Your Meraki hardware is already provided and configured by Vodafone, where the default setting is:

Switch features – MS Series

The switch is supplied with the following configurations:

DHCP snooping to prevent unauthorised integration of DHCP servers into the network	—
IGMP snooping to optimise the network performance in multicast traffic	✓
Broadcast storm defence	—
Spanning tree protocol	✓
BPDU guard recognition	—



Quick start

If you just want to get started without reading more in-depth information, follow these basic steps.

1. Unpack and mount your switch (desktop or rack-mounted) and power it on.
2. Plug any one of the Ethernet ports into an upstream device on your LAN. The LAN port should have access to a DHCP server and it will also need to be able to communicate with the internet.
3. After powering on, your switch will download the latest software. While updating, the switch's power LED will flash green/white. Once the switch has checked in to the dashboard, the LED will turn green/white. **Note: a solid orange light indicates that the device has not checked in to the dashboard yet.**
4. Log in to <http://dashboard.meraki.com>. If required, make your desired configuration changes in the **Switch > Configure** section of the dashboard.

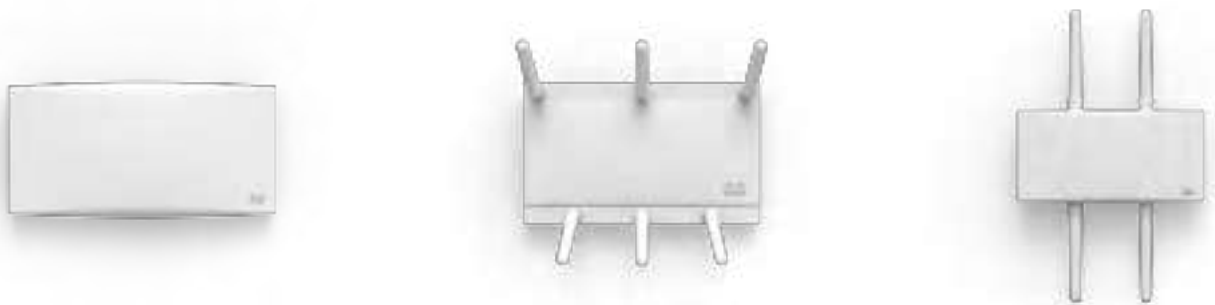


Deep dive

For switch installation information in detail, please refer to the [MS Installation Guides](#) article.



2 MR/CW quick start – wireless access point



Internet connection

Before an MR/CW is added to a network, please make sure you have a working internet connection.



Default setting

Your Meraki hardware is already provided and configured by Vodafone, where the default setting is:

Access point features – MR/CW Series (also in Meraki Z4 products)

Customer information required: SSID number 1

	SSID 1	SSID 2	SSID 3 (guests)
Name of SSID	“Company name”	Set by customer	Set by customer
WLAN password	Customer admin email address	Set by customer	Set by customer



Quick start

The SSID 1 has been preconfigured with optional password and encryption process as above.

If you just want to get started without reading more in-depth information, follow these basic steps.

1. Unpack and mount your AP and attach it to power (via adapter or PoE) and a wired connection with internet access.
2. Plug any one of the Ethernet ports into an upstream device on your LAN.
3. After powering on, your AP will request an IP by DHCP, reach out to the Meraki cloud through the internet and download the latest software. This may take up to an hour, depending on the internet connection speed. While updating, the AP's power LED will flash blue. Once the AP has checked in to the dashboard, the LED will turn green.
4. The network will self-configure an SSID for ease of use and deployment. It is strongly recommended to review this SSID and make any configuration changes desired prior to connecting the APs to the LAN. **Note: a solid orange light indicates that the device has not checked in to the Meraki cloud yet.**
5. Once the AP is updated, ensure that an IP address is assigned to the AP correctly. If required, make the desired configuration changes in the Meraki dashboard area **Wireless > Configure**.



Deep dive

For additional switch installation information, please refer to the [MR/CW Installation Guides](#) article.



3 MX quick start – security and SD-WAN appliance



Internet connection

Before an MX is added to a network, please make sure you have a working internet connection.



Default setting

Your Meraki hardware is already provided and configured by Vodafone, where the default setting is (see red boxes):

Security appliance features – MX Series (also in Meraki Z4 products)

Internal DHCP server on “Security S Advanced” (Meraki hardware: MX68) desired? (IP address area)	✓	“NO” if there is already a DHCP server in the customer network
If yes, what range?	192.168.128.0/24	If line above “YES” and no details of range from customer, then default setting applies: IP address area 192.168.128.0/24 (LAN side)
If yes, IP network should receive the Meraki hardware	192.168.128.1	If line above “YES” and no details of range from customer, then default setting applies: gateway 192.168.128.1 (MX IP)
VPN client or auto VPN? (MX setting → Spoke)	✓	
Block access to websites (adult, P2P, gaming, weapons, etc.)	✓	

DHCP “YES”, because: MX comes after the FRITZ!Box and the clients are only connected to the MX and not to the FRITZ!Box directly. Therefore, the MX should assign the IP addresses. By default, the customer will not manage IP addresses manually.



Quick start

If you want to get started, follow these basic steps.

1. Unpack and mount your MX (desktop or rack-mounted) and power it on.
2. Plug the WAN/internet port into the WAN connection/ISP router.
3. Make sure the MX can get a DHCP address from the network from the WAN connection/ISP router.
4. After powering on, the MX may need to download the latest firmware image from the cloud. While updating, the power LED will flash white. When the MX has fully checked in to the Cisco Meraki dashboard, the LED will turn solid white.
5. If required, make the desired configuration changes in the Meraki dashboard (<http://dashboard.meraki.com>) in the **Security & SD-WAN > Configure** area.



Deep dive

If you need to set up a static IP address for the WAN connection, please refer to [MX Installation Guides](#).



4 MG quick start – cellular gateway



Installation instructions

The [MG51/MG51E Installation Guide](#) provides instructions on how to install and configure your MG51/MG51E series device. The guide also provides mounting instructions and limited troubleshooting procedures.



Mounting hardware

The supplied wall screws and anchors allow you to mount the appliance on a wall surface, either vertically or horizontally. For mounting on wood or a similar surface, use only the screws. Allow the heads of the screws to stick out far enough to be inserted securely into the back of the MG.



Quick start

1. Insert an active nano (4FF) SIM card into the tray before powering up the device.
2. For operation of the MG51/MG51E, the power supply must be ensured via a 230 V plug-in power supply unit or via Power over Ethernet (PoE) according to 802.3at. The plug-in power supply unit is supplied as standard. For PoE, the appropriate infrastructure/cabling must be available.
3. The MG51/MG51E will turn on and the power LED will glow solid orange until it comes online.
4. If the unit requires a firmware update after coming online, the power LED will begin blinking white until the update is complete, at which point the LED will turn solid white. You should allow at least a few minutes for the firmware update to complete, depending on the speed of your internet connection.

If you need to enter a PIN code for your SIM or need to set a static APN, please refer to: [MG51/MG51E Installation Guide](#)

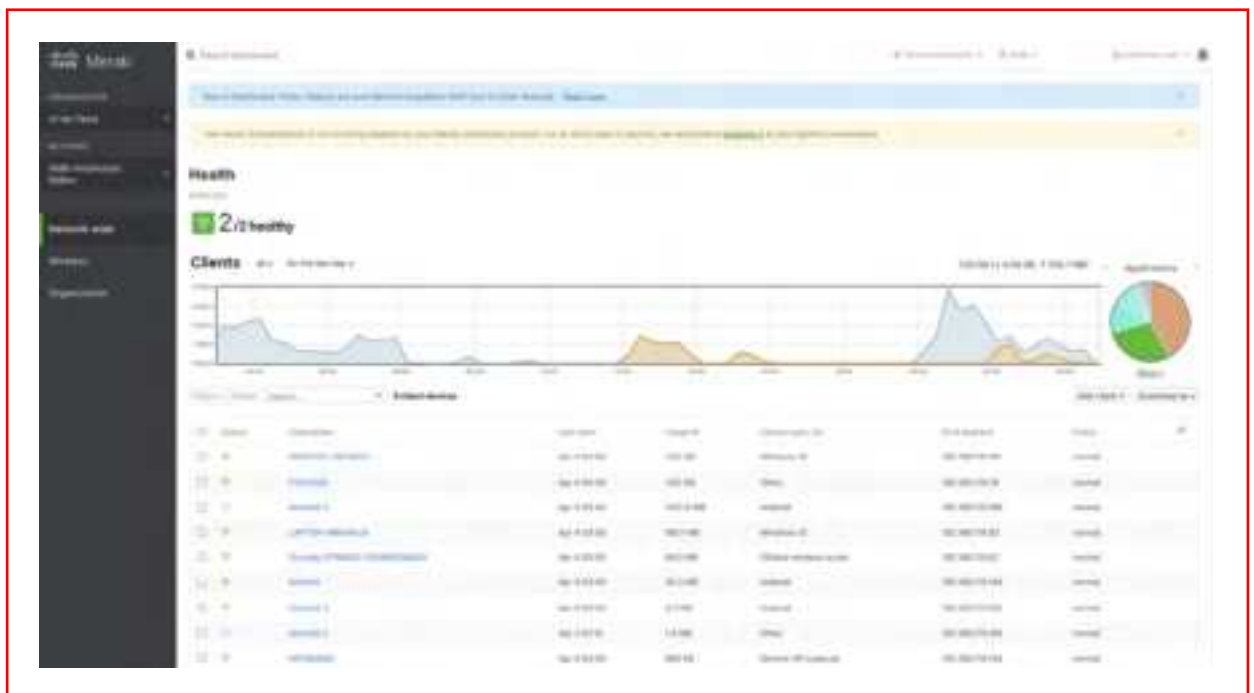


5 Getting started with the Meraki dashboard

Introduction to the Meraki dashboard

The Meraki dashboard itself is a centralised, web-browser-based tool used to monitor and configure Meraki devices and services.

The Meraki dashboard is the visual alternative to the traditional command line, which is used to manage many routers, switches, security devices, and more. Instead, Meraki puts all devices within networks in one place and allows users to apply changes in a simple, easy-to-use format.



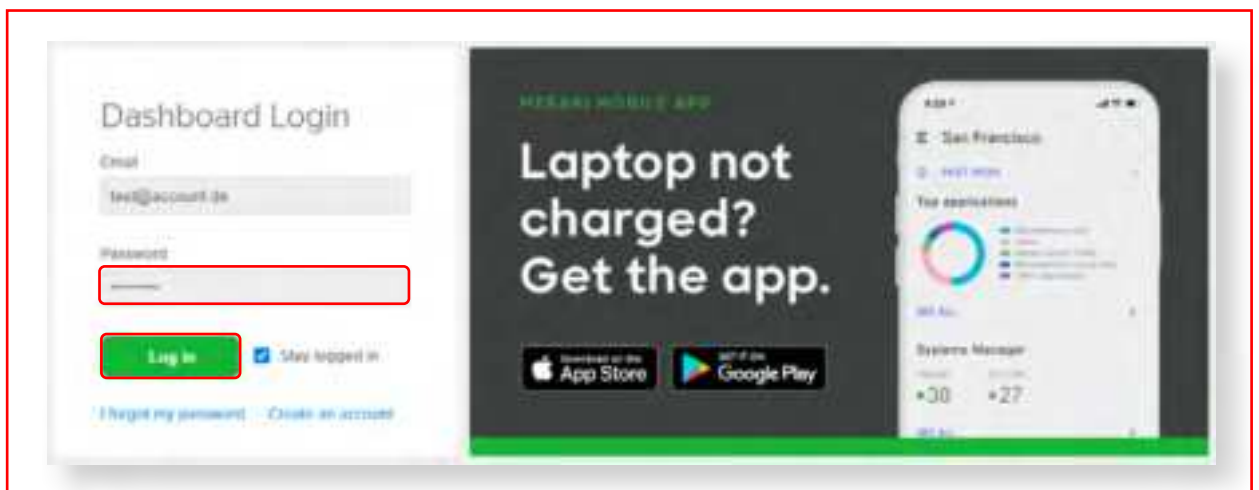
6 Login to the dashboard

➤ Personal access to the Meraki dashboard is automatically activated after the organisation has been created.

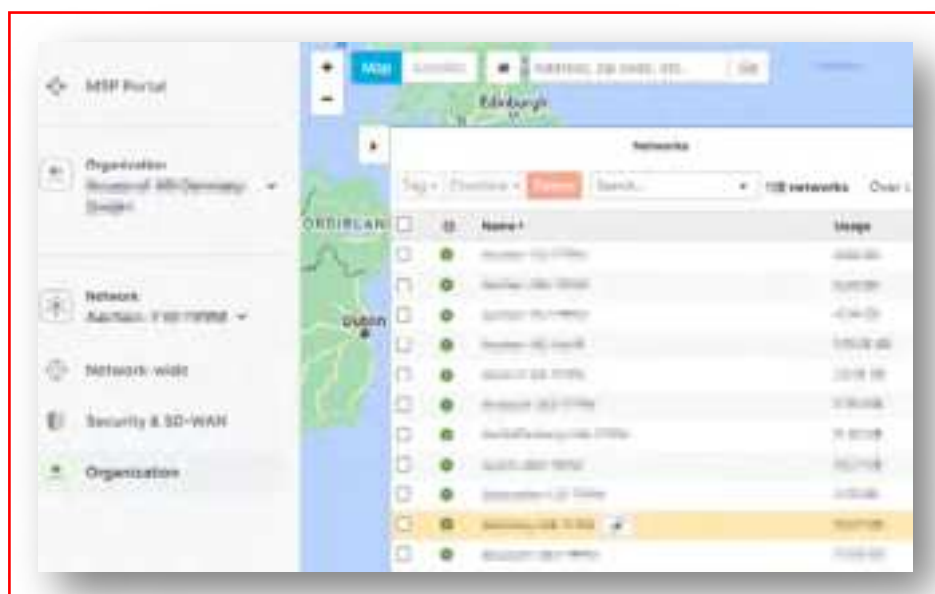
You receive a notification from the system via email for this purpose. Clicking on the link opens the start page, where you have to authenticate yourself.

6.1 Login with an existing account

➤ Log in to <http://dashboard.meraki.com>. If you already have an account in the dashboard, fill in the **Email** field in the login window that appears and confirm with **Next**. Enter the password in the following window and confirm with **Log in**. If necessary, the field **Stay logged in** can be activated.



After logging in, you gain access to the organisation.



6.2 Creating a new account



If no account has been created in the dashboard yet, a password must be set in the first step.

The screenshot shows the Cisco Meraki login page. At the top, the Cisco Meraki logo is on the left, and a link 'Have an account? Log in' is on the right. The main heading is 'Welcome to Cisco Meraki! Choose your password.' Below this, there is a 'Password' field with a strength indicator (Strong) and a 'Confirm password' field. A red box highlights the 'Confirm password' field. Below the 'Confirm password' field is a 'Set password' button. At the bottom, there is a link to the 'Supplemental End User License Agreement' and links for 'Terms' and 'Privacy'.

Then confirm the process with **Set password**. Afterwards, you must log in with the stored password. When registering for the first time, a verification code is required, which is automatically sent to the email address provided.

The screenshot shows the Cisco Meraki 'Enter verification code' page. At the top, the Cisco Meraki logo is on the left, and links for 'Return to Dashboard' and 'Sign in' are on the right. The main heading is 'Enter verification code'. Below this, there is a blue box with an information icon and the text 'Once logged in, enable two-factor authentication for enhanced security of your account.' Below this, there is a message: 'For security reasons, you are required to complete two-factor authentication to log in to the dashboard. A verification code was sent to your email address [redacted]. To verify your identity on this device, check your email and enter the verification code below.' Below this message is a 'Verify' button and a link 'Didn't receive an email?'. At the bottom, there are links for 'Terms' and 'Privacy'.



➞ Log in to <http://dashboard.meraki.com>. After logging in, you gain access to the organisation.

