



# Crankk official guide for onboarding a MNTD / RAK V2 by RAKwireless gateway

- 1) Flash the SD card with the Crankk image
- 2) Local Dashboard setup
- 3) User Dashboard setup



We have automated the onboarding process of MNTD / RAK V2 gateways to just a few steps. Here are a few things you might need for this guide: tweezers and an SD card reader/adaptor:



## 1) Flash the SD card with the Crankk image

You can copy the **config** file from your original SD card and use it, or you can choose to use your own card to flash the image. We recommend using at least a 64GB SD card.

### 1. Download the Crankk image and balenaEtcher.

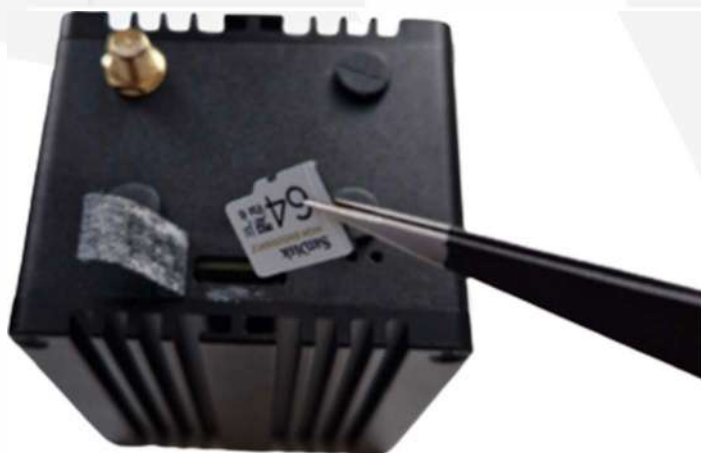
Follow [this link](#) to download the official **Crankk IMG**.

And [this one](#) to download the **balenaEtcher** software, which is needed to flash the image to the SD card.

While you wait for the downloads to complete, head over to your MNTD / RAK V2 gateway.

### 2. Remove the SD card from your MNTD / RAK V2 gateway and insert it into an SD card reader/adapter on your PC.

To begin, gently remove the plastic tab and use tweezers to extract the SD card.



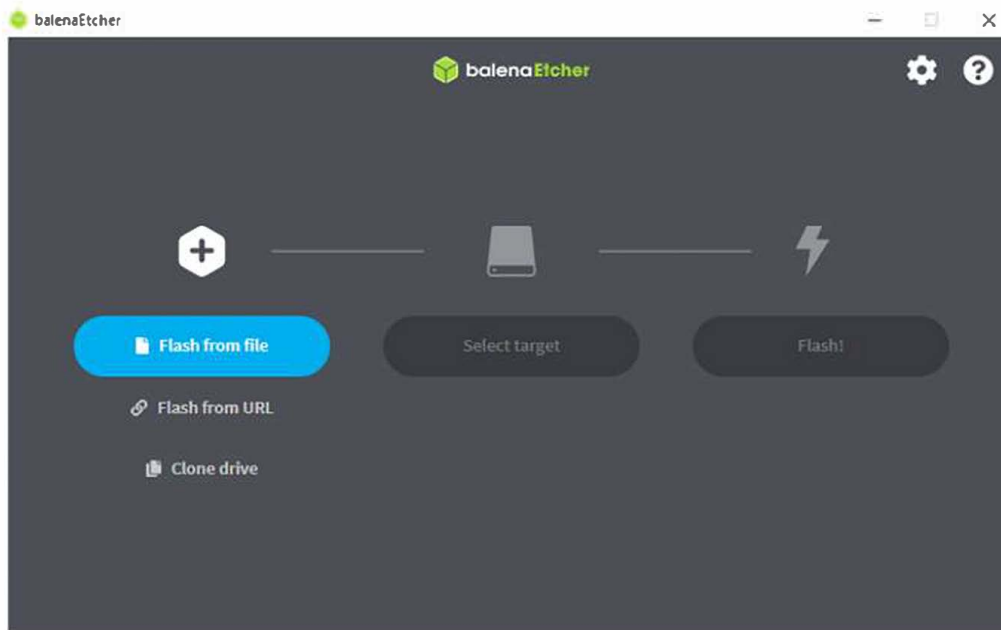
Next, insert the card into an SD card reader/adapter on your PC and you're ready to get started.

A message **Format Disk** might appear on your screen.

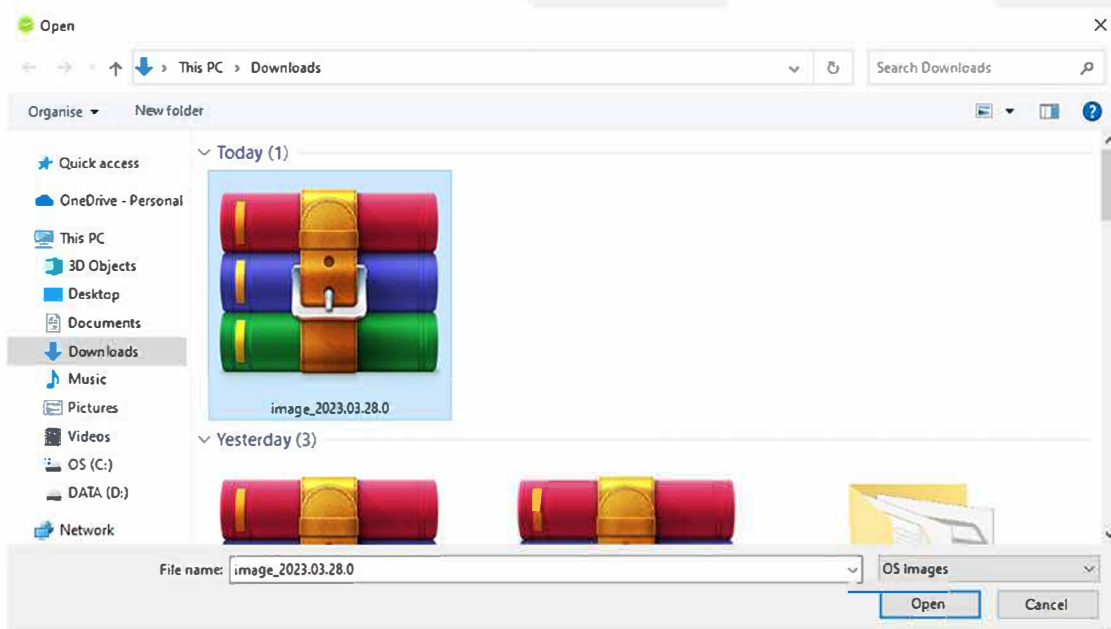
You don't need to format the card, as the **balenaEtcher** will take care of it.

You can copy the **config** file from the SD card and keep it as a backup.

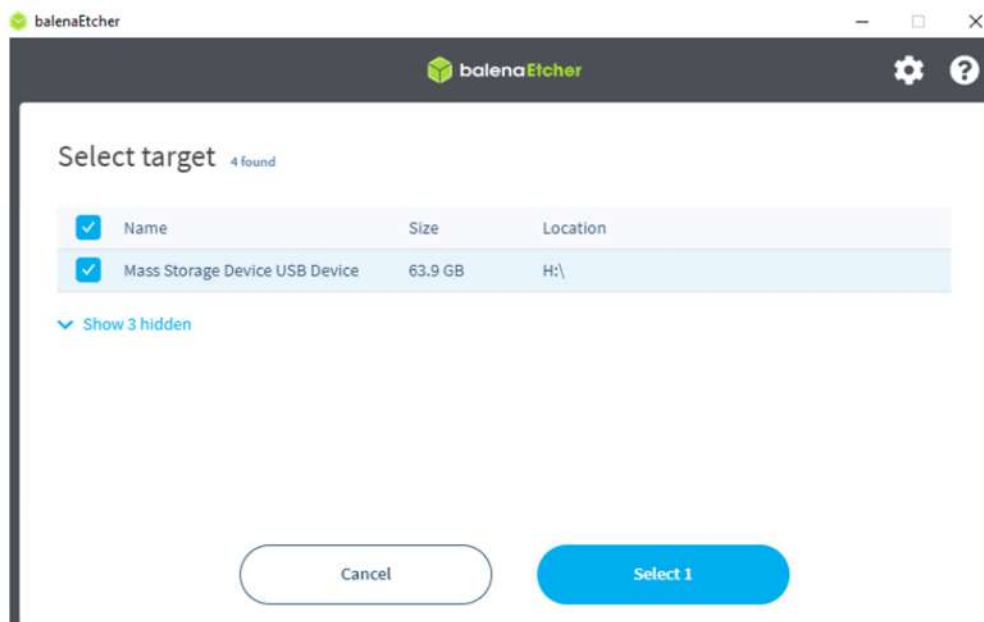
### 3. Install balenaEtcher and flash the SD card.



Use the option **Flash from file** and select the Crankk image file you have downloaded. It is not necessary to unzip the file, simply select it as is.



Okay, next pick your **SD card** > **Select** > **Flash**



The flashing process can vary, but usually takes about 20-30 minutes.

#### **4. Place the SD card back into the gateway.**

Once the process is completed, insert the SD card back into your gateway and attach the antenna.

Then connect the gateway via an Ethernet LAN cable to your local network and power it on.

Please wait a few minutes for the gateway to boot up and then return to your PC.

## **2) Local Dashboard setup**

#### **5. Log in to the Local Dashboard.**

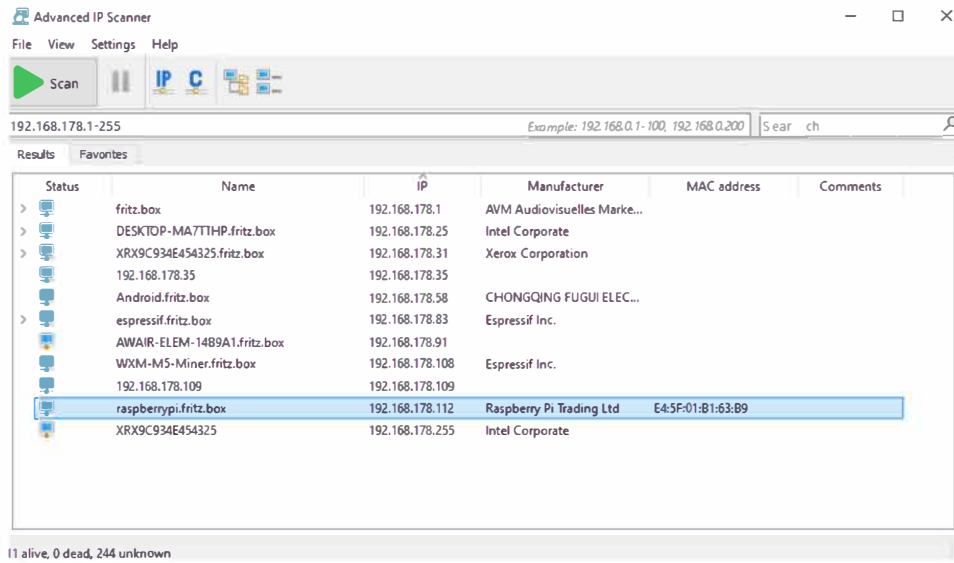
We have automated the process and you do **NOT** need to download the **Crankk Installer** anymore.

Instead, just log in to the **Local Dashboard**.

If you have any VPN enabled on your PC, please turn it off.

Now check your router to find the **gateway IP address**.

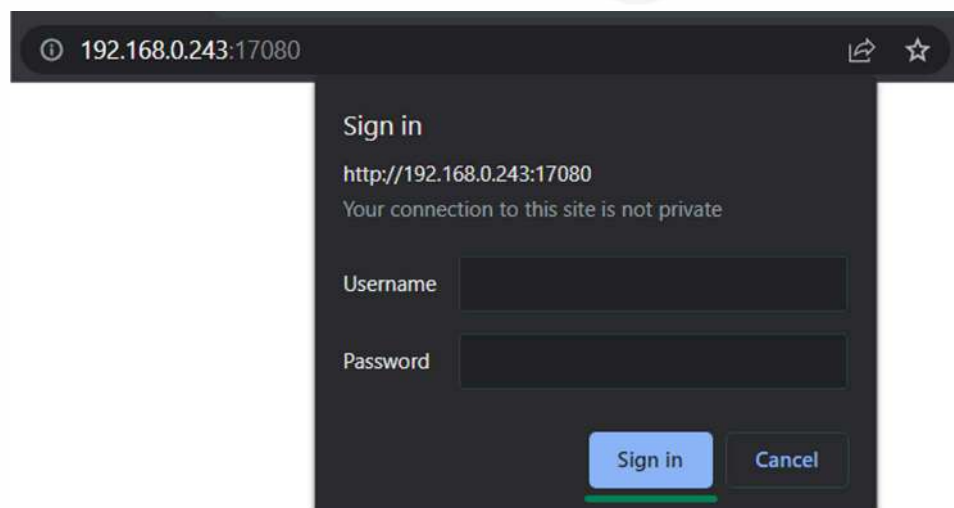
If you are unsure how to do this, you can use free tools like **Advanced IP Scanner** to help you out. Check the **MAC address** of your gateway to find the correct IP address.



Once you have the LAN IP address of your gateway, open a new browser tab from a PC on the same network and paste the IP followed by **:17080**

`http://192.168.0.243:17080`

When logging in for the first time, you do not need to enter any credentials, just press **Sign in**.



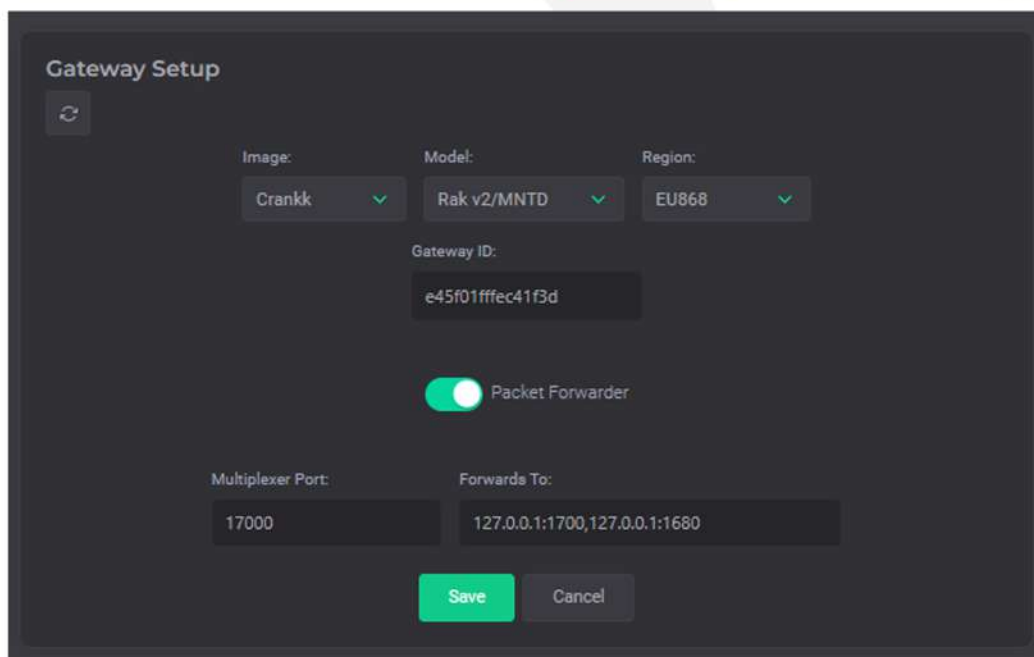
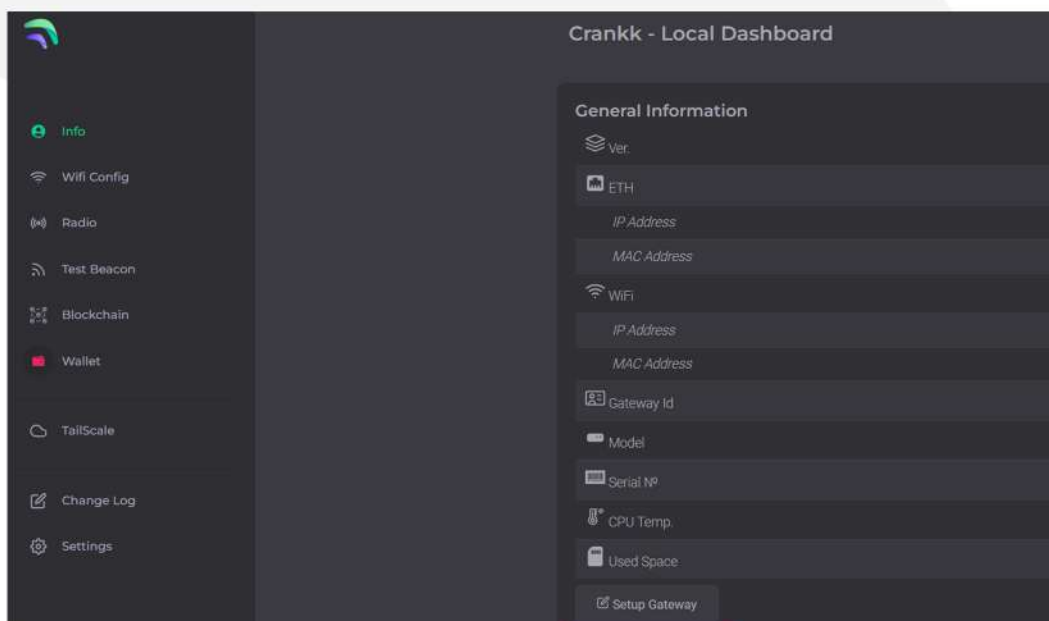
After setting up your gateway, next time you can log in with the following credentials:

- Username: **admin**
- Password: **the last 6 symbols of the gateway's MAC address (e.g. B163B9)**

Please note that you can change the password in the **Settings** tab.

## 6. Set up the gateway.

Go to the **Info** tab > **Setup Gateway**



Copy your **Gateway ID**, as we will need it later.

Select the **Image** that is installed on your gateway (Crankk / Helium / Nebra), **Model** and **Region\*** (EU868 / AU915 / US915).

For MNTD / RAK V2 gateways, only the Crankk image is available at the moment.

Turn on the **Packet Forwarder**.

If you are currently mining or planning to mine Helium, leave the **Forwards to** box unchanged as shown in the screenshot.

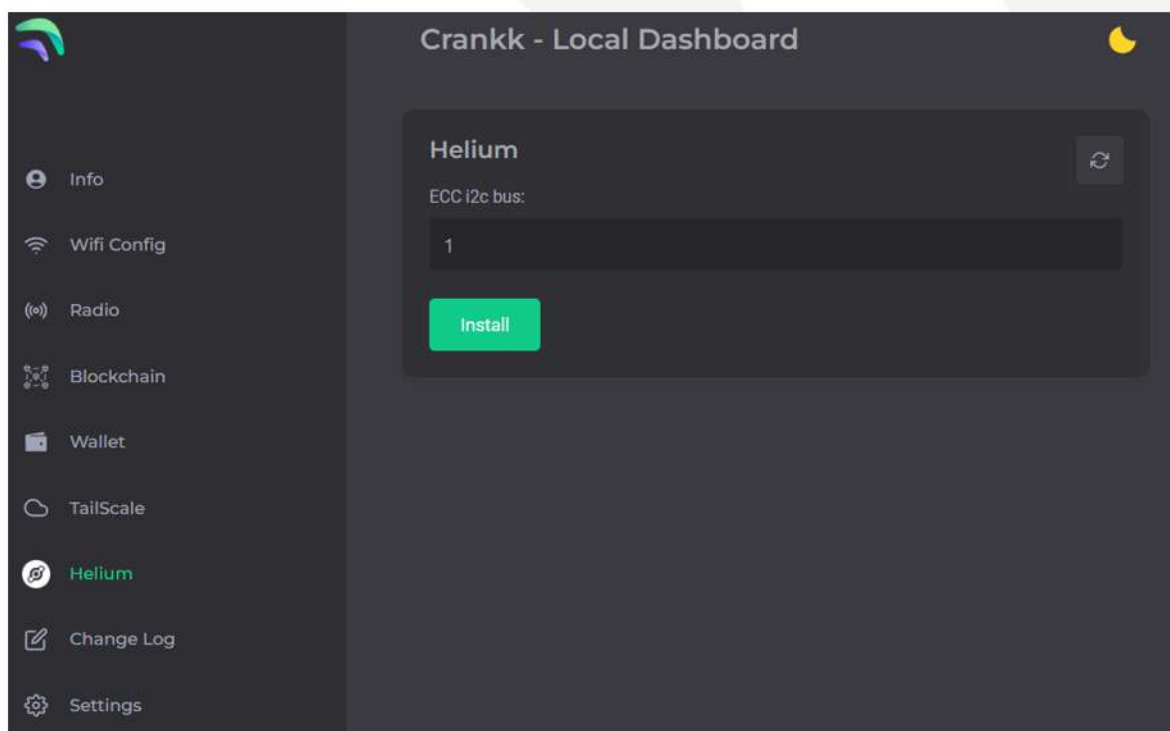
If you don't wish to mine Helium, leave only **127.0.0.1:1700**

Hit **Save**.

Your gateway will restart automatically. Please wait a few minutes while it loads.

## 7. Double mining.

If you want to participate in Double mining, you can install Helium from here:

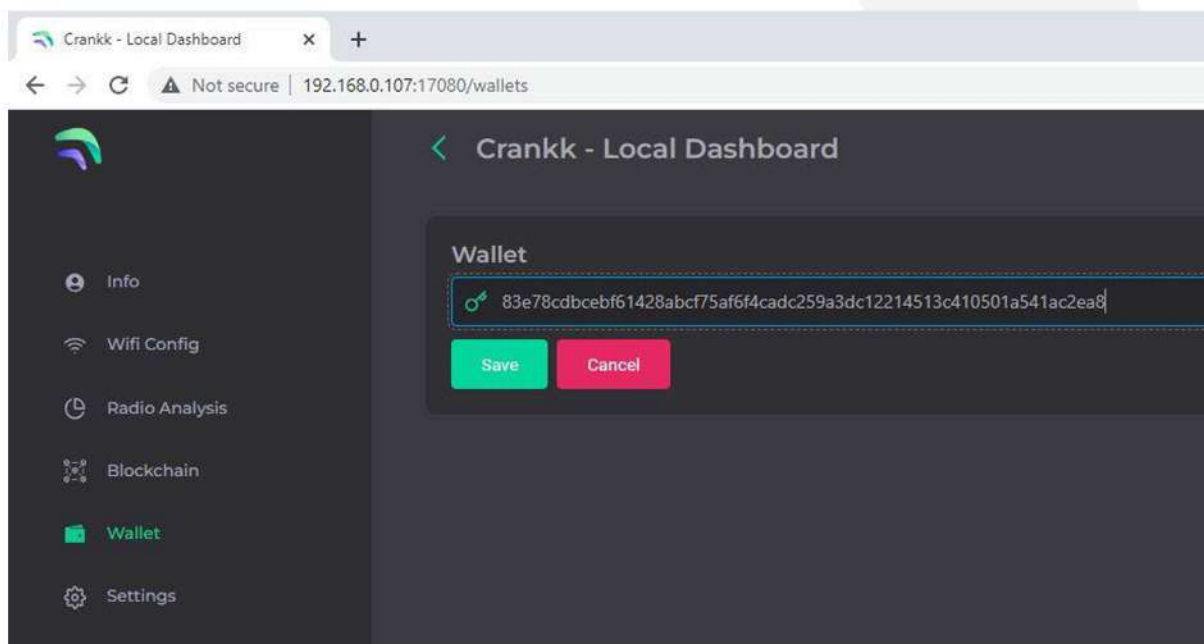


## 8. Import your secret key.

Hint: If you don't have your secret key saved, you can go to the **User Dashboard > Wallets > find the correct wallet > use the three dots to reveal the secret key.**

Navigate to the **Wallet** section in the **Local Dashboard** and enter your **secret key**, keeping the following in mind:

- Please ensure that you copy and paste the **secret key** exactly as it is, without any spaces or other symbols
- Please double-check that it is the correct **secret key** and that it does not belong to another gateway
- Please also note that your **secret key** is different from your **wallet address/public key** starting with k:



Hit **Save**.

If you have entered the correct secret key, then you will see your **k: wallet address** displayed in the **Wallet** field.

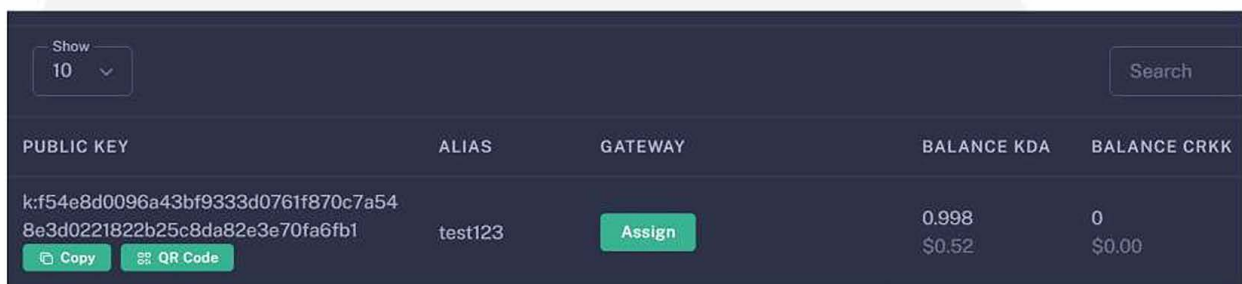


### 3) User Dashboard setup

**9. Assign your gateway ID to a wallet in the User Dashboard.**  
Log in to the **User Dashboard**.

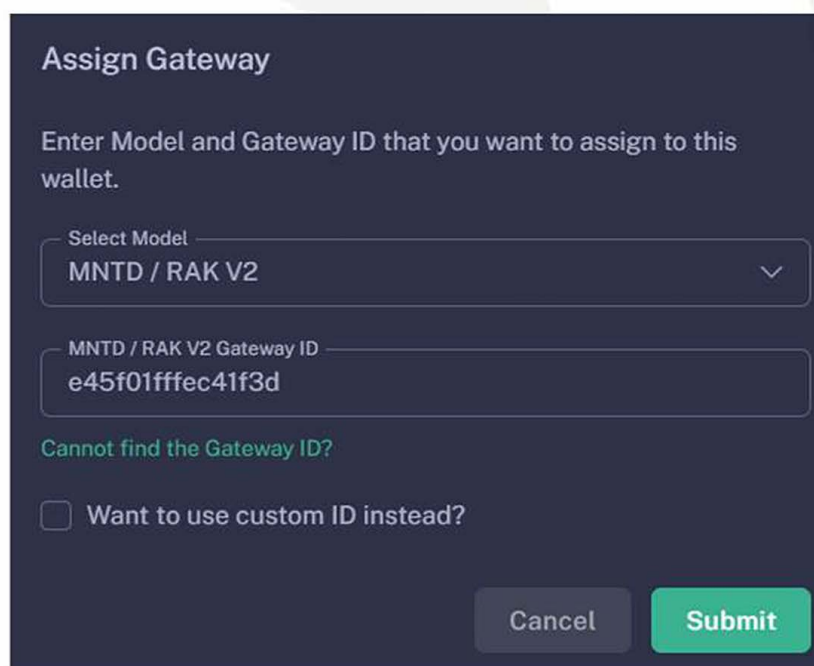
Navigate to the **Wallets** section and select the wallet that you want to use for your software license activation.

Assign your gateway ID to the chosen wallet by clicking on the **Assign** button. If you don't see such a button, it means you haven't purchased a software license for this wallet.



PUBLIC KEY	ALIAS	GATEWAY	BALANCE KDA	BALANCE CRKK
k:f54e8d0096a43bf9333d0761f870c7a54 8e3d0221822b25c8da82e3e70fa6fb1 <a href="#">Copy</a> <a href="#">QR Code</a>	test123	<a href="#">Assign</a>	0.998 \$0.52	0 \$0.00

Select your gateway **Model**, copy and paste your **Gateway ID** (please double-check that it is correct) and hit the **Submit** button.



**Assign Gateway**

Enter Model and Gateway ID that you want to assign to this wallet.

Select Model  
MNTD / RAK V2

MNTD / RAK V2 Gateway ID  
e45f01fffec41f3d

[Cannot find the Gateway ID?](#)

Want to use custom ID instead?

[Cancel](#) [Submit](#)

Please wait a few minutes to allow the changes to sync to the blockchain.

Congratulations! You have successfully onboarded your MNTD / RAK V2 gateway on Crankk!

*\* Crankk currently supports the following frequencies: EU868 MHz, AU915 MHz and US915 MHz. It is essential to ensure that any hardware purchased from a third-party company for use with Crankk operates on the correct frequency for your region of residence. Crankk Inc. assumes no responsibility for any issues arising from the use of hardware with an incorrect frequency. It is the responsibility of the user to select the appropriate frequency for their region of residence.*

**Please note that any modifications, updates or restrictions made by the gateway manufacturer that may impact the performance or functionality of the gateway on the Crankk network are beyond the control and responsibility of Crankk Inc. Users are advised to check compatibility and seek assistance from the gateway manufacturer for any gateway-related issues.**