



Crankk official guide for onboarding a Dusun gateway

- 1) Flash the image to the Dusun's eMMC
- 2) Local Dashboard setup
- 3) User Dashboard setup



For this guide you will need a USB C to USB A and LAN Cables.



Please note that this guide applies to two scenarios:

1. Already onboarded light **Dusun** gateways, which can be upgraded to full gateways with access to the Local Dashboard and all the associated benefits.
2. New **Dusun** gateways that have never been onboarded in **Crankk** before.

In this guide, we will walk you through the process of flashing the **Debian OS** onto your **Dusun** gateway using a Windows OS PC.

1) Flash the image to the Dusun's eMMC

1. Download the image.

Please follow this [link](#) to download the **OS image for Dusun**. Once the download is complete, extract the contents of the downloaded image file.

2. Download and Install the AndroidTool.

For this step there is no need to connect your **Dusun** device to your PC yet.

Download the **AndroidTool** required to flash the image from [here](#).

Make sure to install the needed drivers from [here](#).

Then please restart your PC.

3. Connect the Dusun to your PC

Use a USB-C cable to connect the Dusun device to the USB-A port on your PC. The port is located on the back of the gateway.

Locate the reset and power buttons on your gateway:



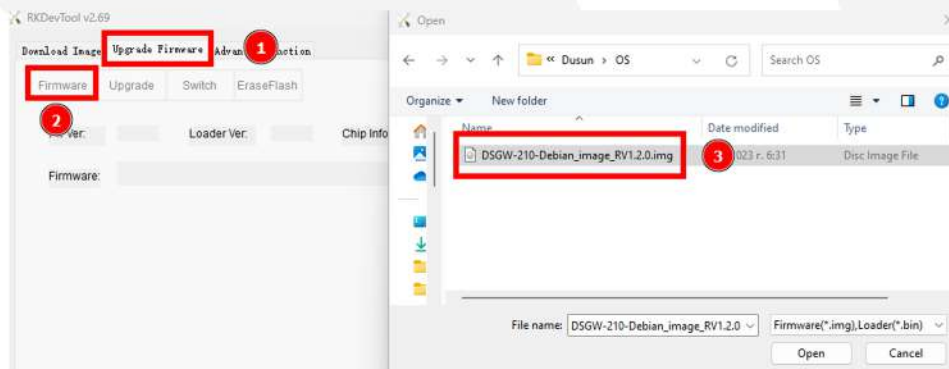
Now do the following:

- 1) Hold reset button
- 2) Hold power button
- 3) Release reset button, while still holding power button
- 4) Wait for led circle to complete **RED GREEN RED** lights
- 5) Release power button

4. Flash the unzipped OS image to the eMMC

Run **AndroidTool.exe** to start the flashing tools.

Then navigate to **Upgrade Firmware** tab, click on **Firmware** and choose the image you have downloaded before.



Now click on **Upgrade** and wait till the flashing process is completed.

Upon completion of the process, disconnect the **USB** cable and restart the gateway normally.

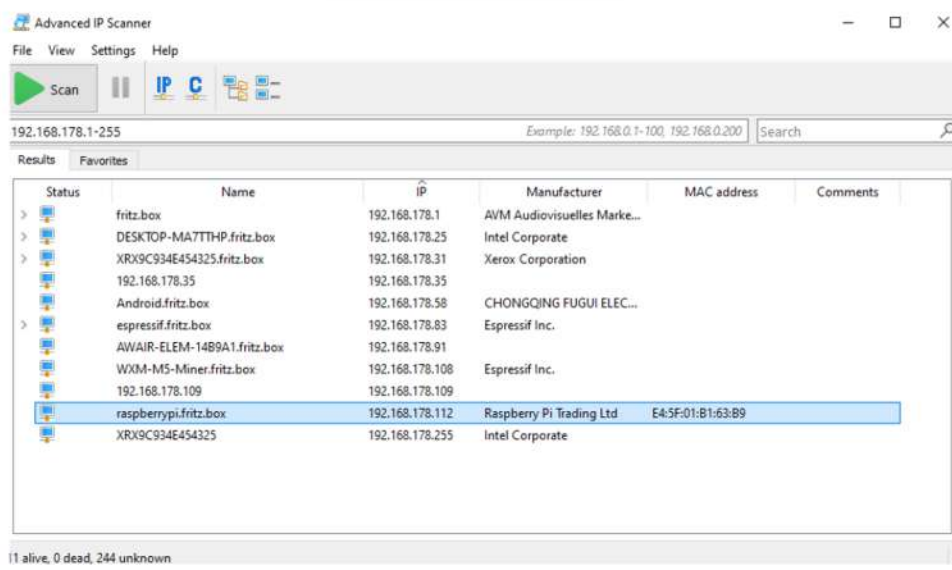
5. Install Crankk via the Crankk installer

Download the latest Crankk installer from this [link](#).

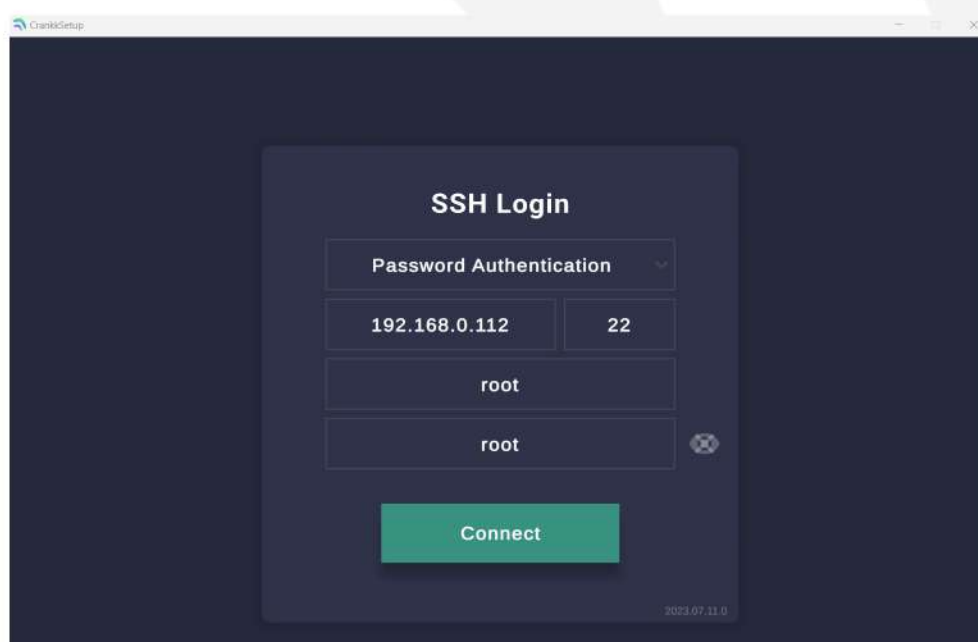
While waiting the download to complete, connect the **Dusun** to your home network via LAN Ethernet cable.

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.



Install and open the **Crankk Installer**.



At the login screen choose **Password Authentication**.

Type in the gateway IP.

The default port is 22

Username: **root**

Password: **root**

6. Install Crankk.

Once you are logged in, please select **Install Crankk**.

After it's done, exit the installer, restart the device and log in to the local dashboard.

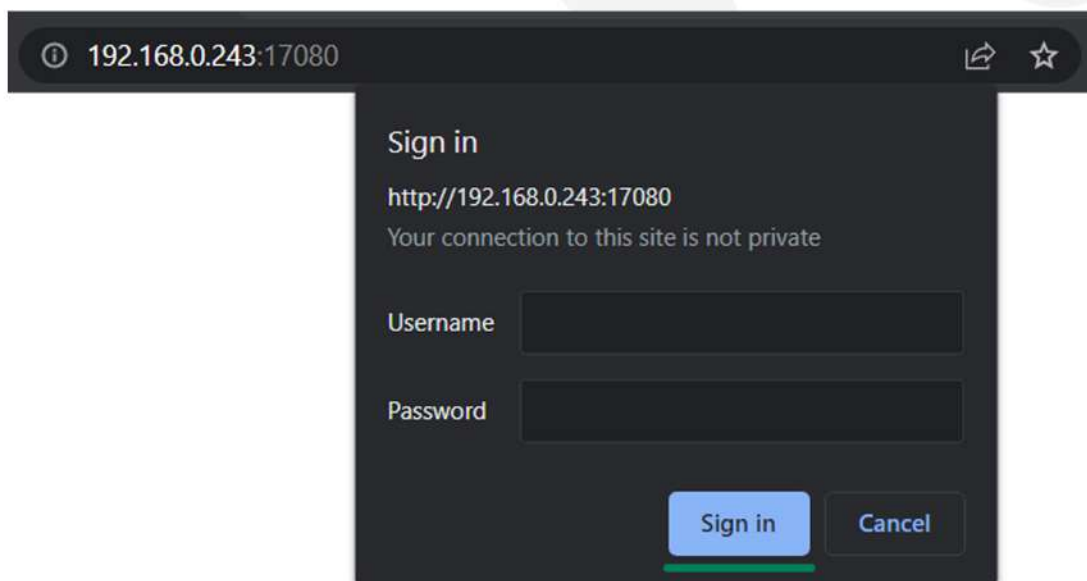
2) Local Dashboard setup

7. Log in to the Local Dashboard.

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**.

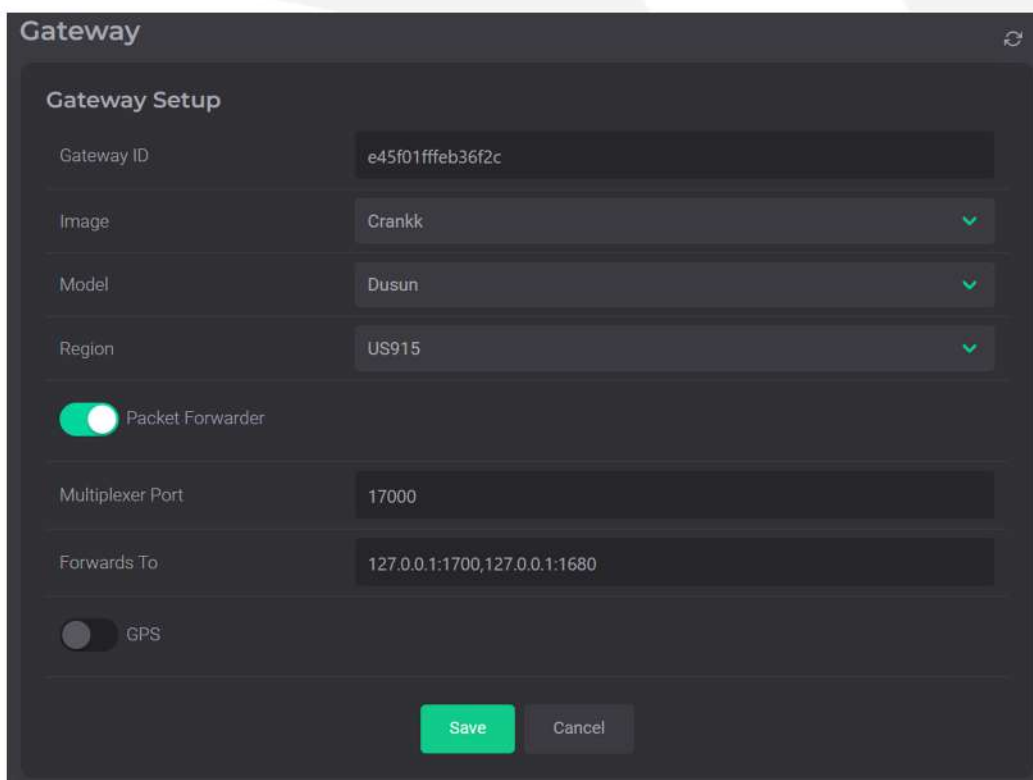
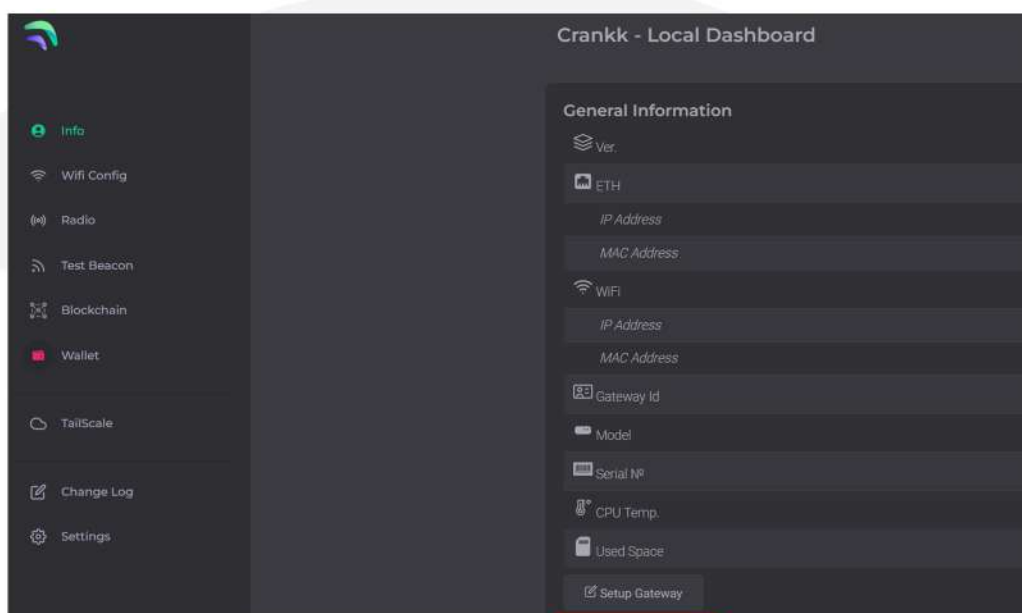


Once you logged in you will be asked to create your own password.

You can change the admin password for your Local Dashboard from **Settings** tab.

8. 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** (**Please use only Dusun**) and **Region*** (EU868 / AU915 / US915).

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.

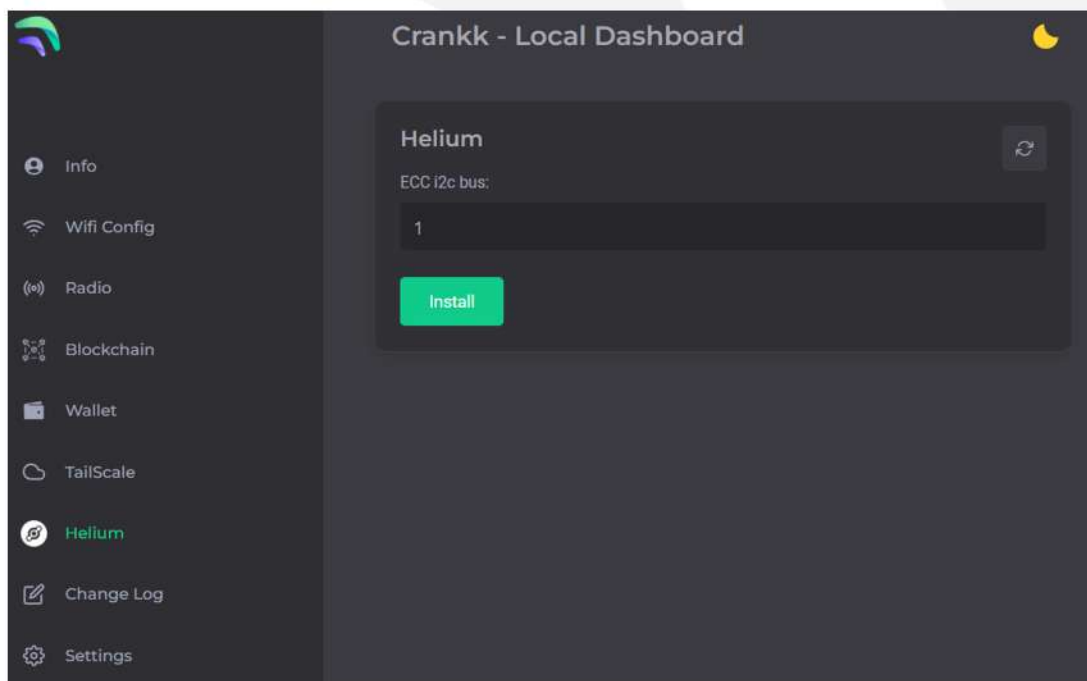
If you don't wish to mine Helium, leave only **127.0.0.1:1700**

Hit **Save**.

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

9. Double mining.

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

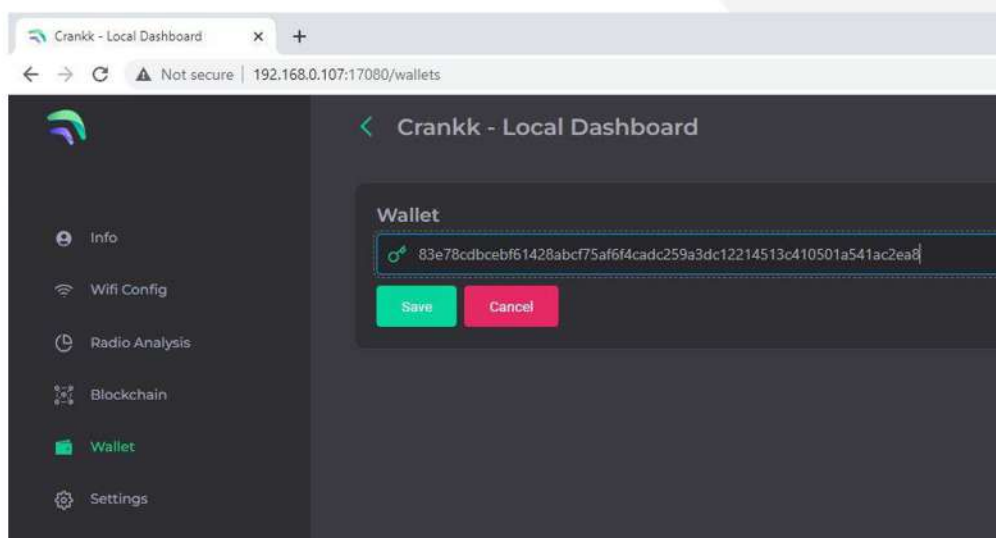


10. Import your secret key.

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.

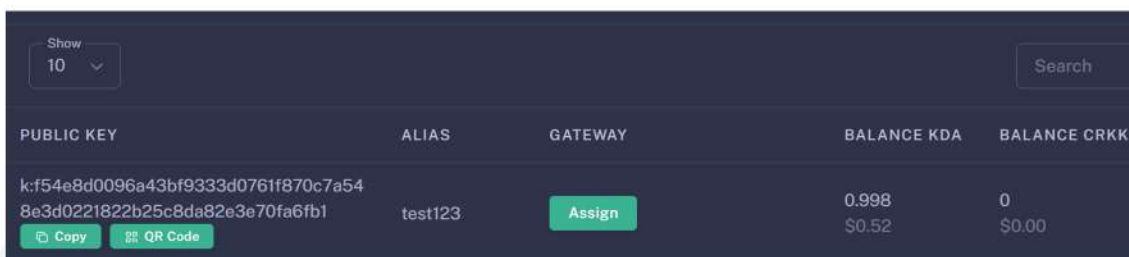
3) User Dashboard setup

11. Assign your gateway ID to a wallet in the User Dashboard.

Visit **User Dashboard** and sign in into your account.

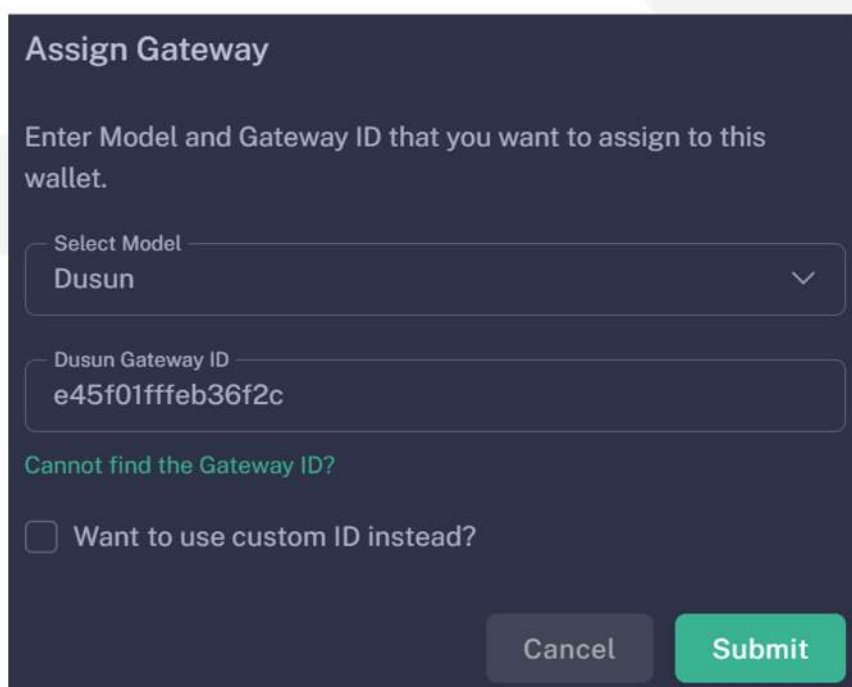
Navigate to the **Wallets** section and select the wallet that you want to use for your software license activation.

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	test123	Assign	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
Dusun

Dusun Gateway ID
e45f01fffeb36f2c

[Cannot find the Gateway ID?](#)

Want to use custom ID instead?

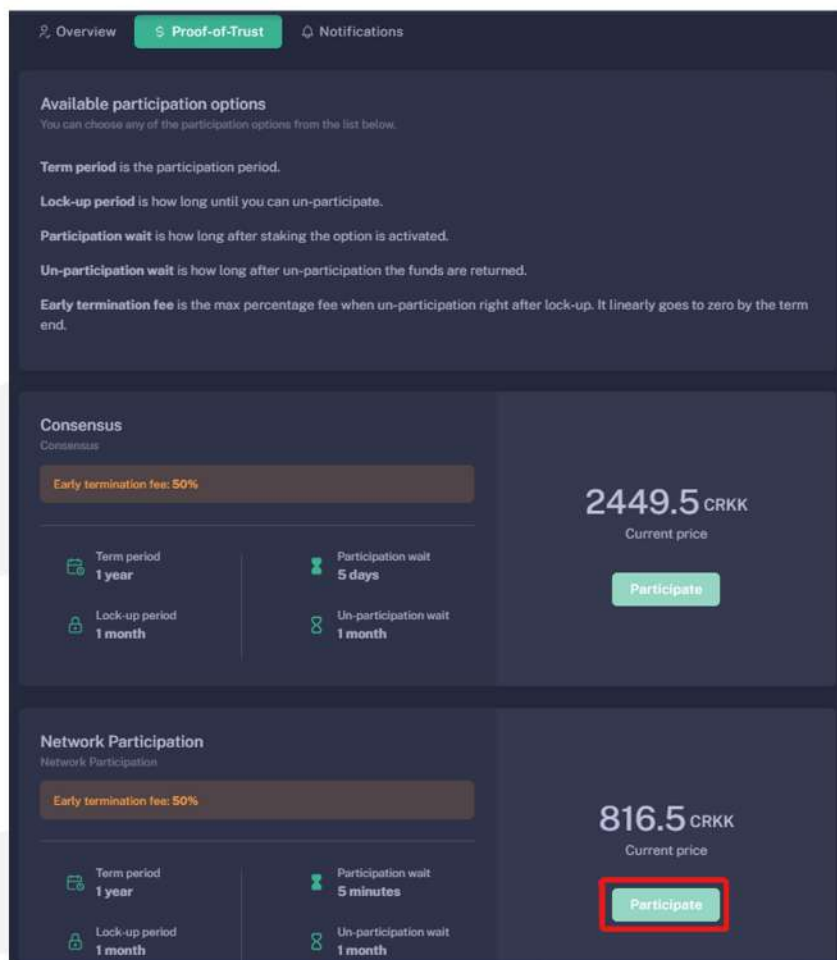
Cancel Submit

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

12. Staking

Staking is a mandatory requirement for all gateways onboarded into **Crankk**, in order to receive rewards. It requires staking \$100 worth of CRKK tokens.

Those funds remain yours, and you can fully withdraw them after period of 1 year.

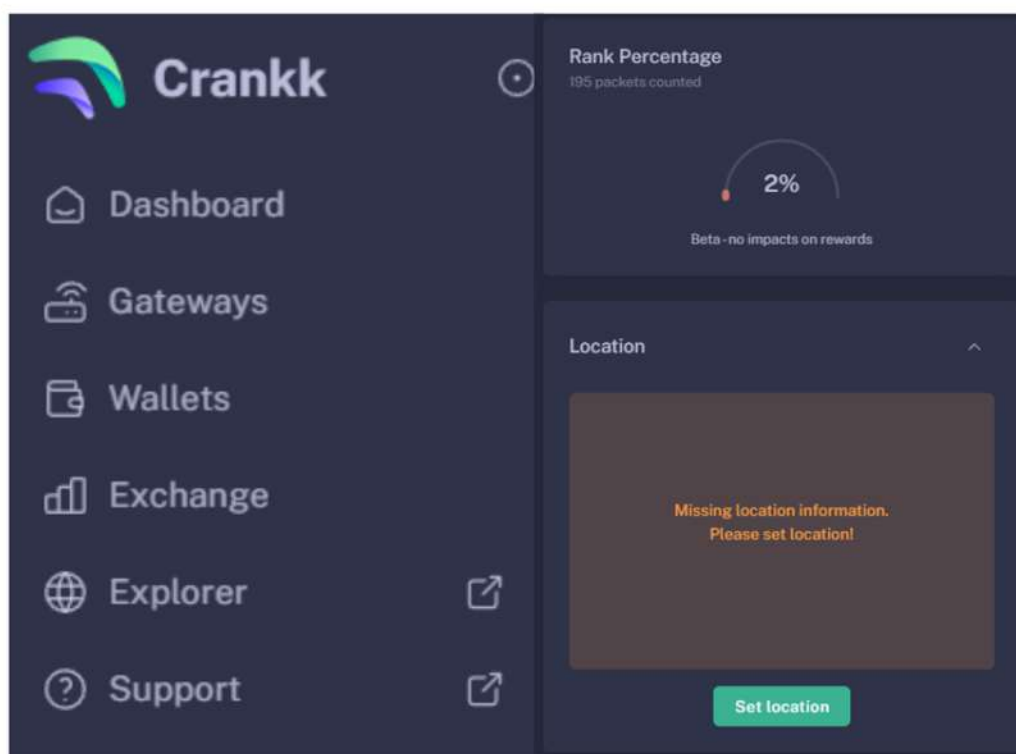


To complete this process:

- Log in to the **User Dashboard**.
- Navigate to **Gateways** and select your specific gateway.
- Click on **Proof-of-Trust**.
- Next to the "Network Participation" tab, you will find the current amount of CRKK tokens required for staking. Simply press the green **Participate** button.

It's important to note that the staking value remains constant at \$100. The only variable is the quantity of CRKK tokens that need to be staked. If you lack the necessary tokens for staking, our DEX offers the option to exchange KDA coins for CRKK tokens.

13. Set your gateway location



To set your gateway location you need to:

- Navigate to your gateway in the User Dashboard.
- Scroll down below the **Rank Percentage** section until you find the **Location** tab.
- Unlock your wallet by entering the correct password.
- Click on **Set Location**.
- Zoom out using the scroll wheel on your mouse.
- Select the desired gateway location.
- Click **Submit**.

Congratulations! You have successfully onboarded your **Dusun** 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.