

LoRaguard - Instructions for The Things Network v3 (TTN v3) connection

Objective

To connect to LoRaGuard a gateway already set up in The Things Network v3.


Steps


1- Set up in TTN

In short, we need to generate an API key for the gateway in the TTN site that will be provided to [LoRaguard](#) to read the gateway's messages.

1. If you don't have an account, create one in TTN

Go to the sign up menu in TTN, <https://account.TheThingsNetwork.org/users/login>. Then, enter your credentials.


[HOME](#)[CONSOLE](#)




CREATE AN ACCOUNT

Welcome aboard! Fill in your details to create an account on The Things Network and start exploring the world of LoRaWAN.


USERNAME
Your public name.



EMAIL ADDRESS
Your email address stays private. An activation email will be sent to you shortly (please check your spam folder).



PASSWORD
Use at least 6 characters.



NEWSLETTER
Subscribe to the newsletter. ☐

[Create account](#)

By registering an account you agree to our [Terms and Conditions](#) and [Privacy Policy](#).


Already have an account? [Log in](#)

You are the network. Let's build this thing together. - [The Things Network](#)

[Terms and Conditions](#) [Privacy Policy](#)

- Now, we need to generate the API key that will grant permissions to read the gateway traffic.

Go to <https://console.thethingsnetwork.org/> and select the region of your gateway:

**THE THINGS NETWORK**
The Things Network Cluster Picker
Select a cluster to start adding devices and gateways.


Europe 1
eu1

North America 1
nam1



Australia 1
au1

Legacy V2 Console
⚠️ shuts down in December 2021

More information



Click on “Login with The Things ID”



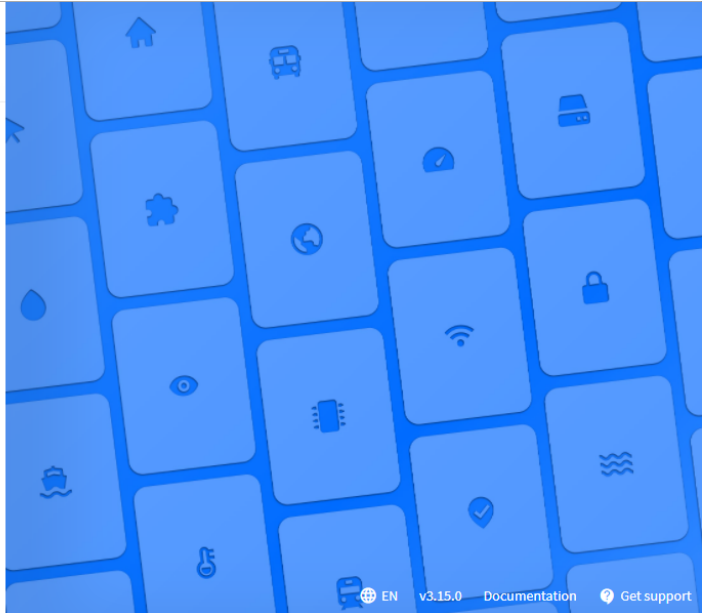
The Things Network Account

Please login to continue

Login with The Things ID


Login using credentials

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EN v3.15.0 Documentation Get support

Provide your username and password:



Login to The Things Stack with **The Things ID**

Username or email •

Password •

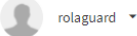
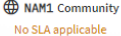
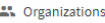





Submit

[Cancel](#)

[Register](#) [Forgot password?](#)

The Things ID by The Things Industries


Once logged in, go to the “Gateways” tab:



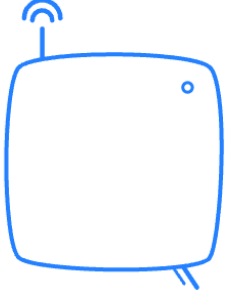
Welcome back, rolaguard! 🙌

Walk right through to your applications and/or gateways.

Need help? Have a look at our [Documentation](#) or [Get support](#).

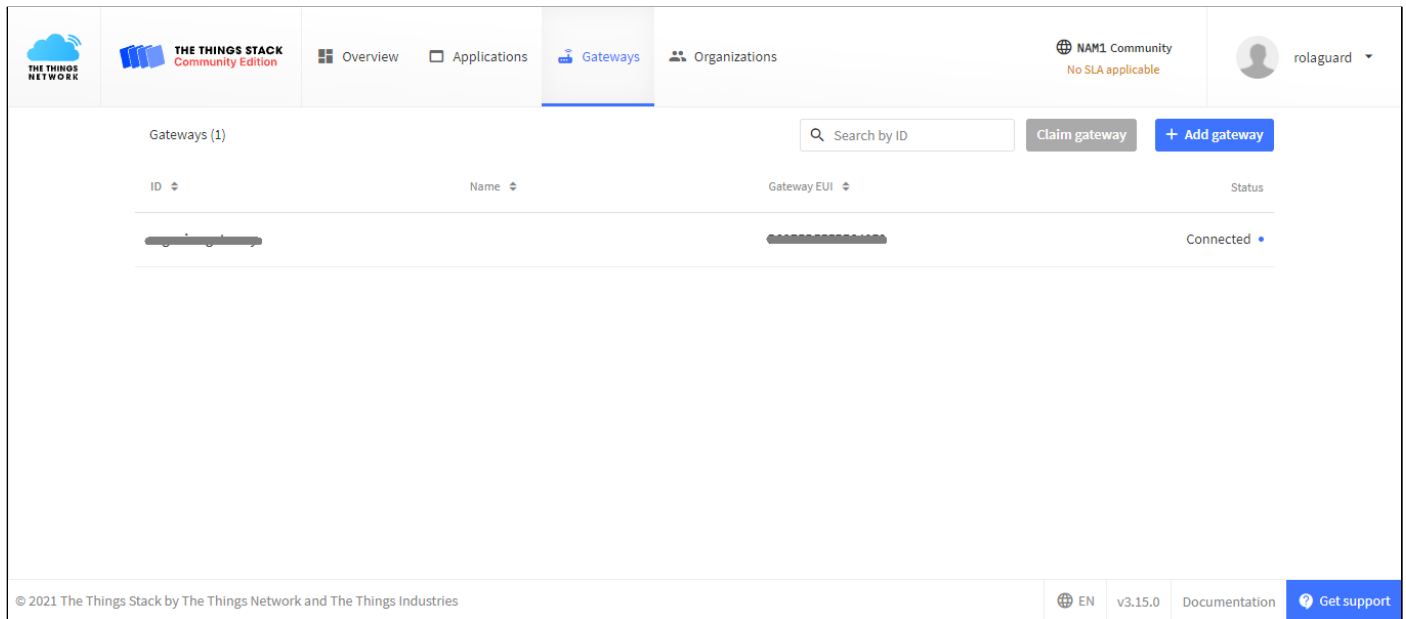


Go to applications



Go to gateways

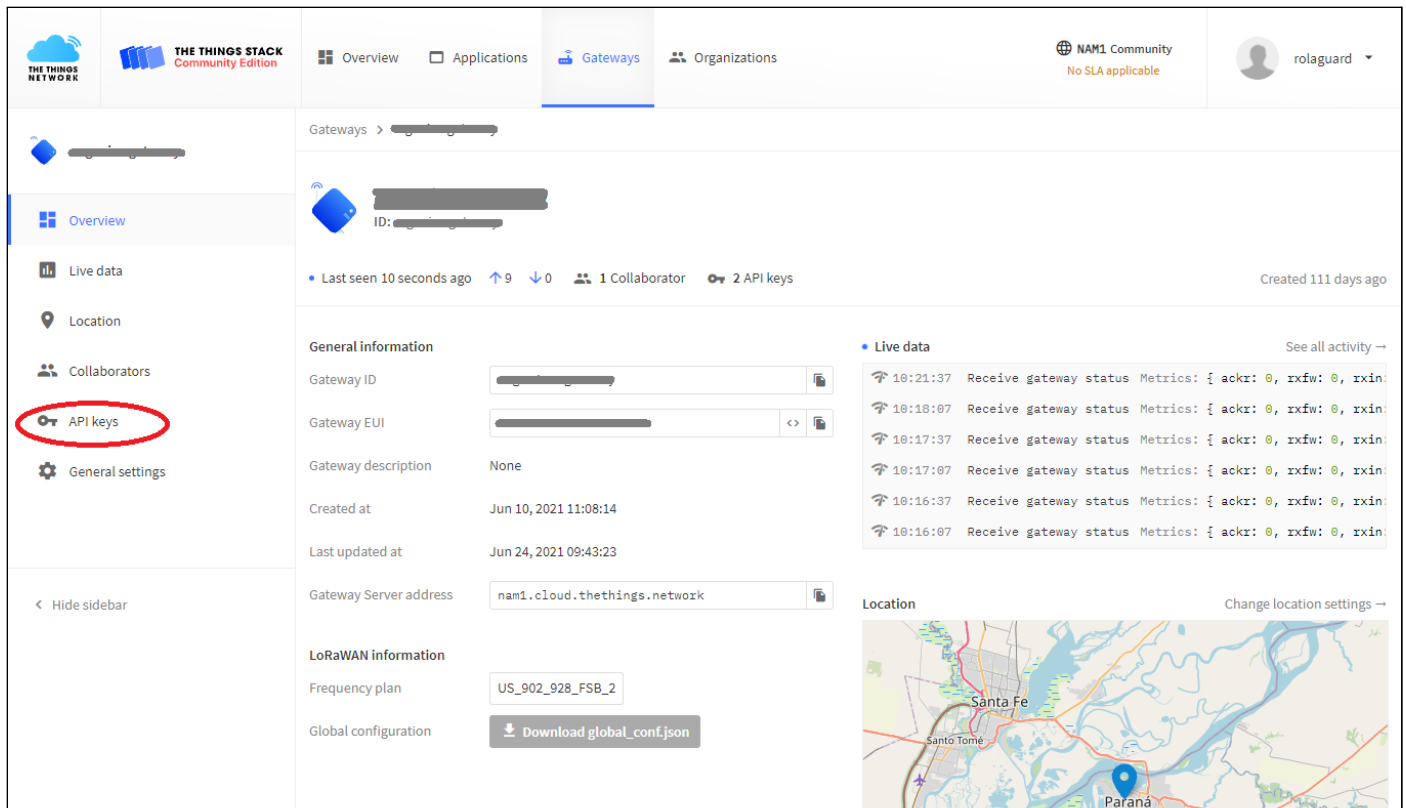
Click on the **gateway's name** that will be accessed by RoLaGuard



The screenshot shows the 'Gateways' page in The Things Stack Community Edition. The top navigation bar includes the 'THE THINGS STACK Community Edition' logo, a sidebar with 'Overview', 'Applications', 'Gateways' (selected), and 'Organizations', and a user profile 'rolaguard'. The main content area shows a table with one gateway. The table has columns for 'ID', 'Name', 'Gateway EUI', and 'Status'. The gateway is named 'Connected' and has a status of 'Connected'. Below the table, there is a footer with copyright information and links for 'EN', 'v3.15.0', 'Documentation', and 'Get support'.

ID	Name	Gateway EUI	Status
[REDACTED]	[REDACTED]	[REDACTED]	Connected

Go to “API keys”



The screenshot shows the details page for a specific gateway. The left sidebar is expanded, showing 'Overview', 'Live data', 'Location', 'Collaborators', 'API keys' (circled in red), and 'General settings'. The main content area is divided into two columns. The left column contains 'General information' with fields for 'Gateway ID', 'Gateway EUI', 'Gateway description', 'Created at', 'Last updated at', and 'Gateway Server address'. The right column contains 'Live data' with a list of recent status updates and a 'Location' map showing the gateway's position near Santa Fe and Paraná. The 'API keys' section is currently empty.

General information	Live data
Gateway ID: [REDACTED]	10:21:37 Receive gateway status Metrics: { ackz: 0, rxfw: 0, rxin: 0 }
Gateway EUI: [REDACTED]	10:18:07 Receive gateway status Metrics: { ackz: 0, rxfw: 0, rxin: 0 }
Gateway description: None	10:17:37 Receive gateway status Metrics: { ackz: 0, rxfw: 0, rxin: 0 }
Created at: Jun 10, 2021 11:08:14	10:17:07 Receive gateway status Metrics: { ackz: 0, rxfw: 0, rxin: 0 }
Last updated at: Jun 24, 2021 09:43:23	10:16:37 Receive gateway status Metrics: { ackz: 0, rxfw: 0, rxin: 0 }
Gateway Server address: nam1.cloud.thethings.network	10:16:07 Receive gateway status Metrics: { ackz: 0, rxfw: 0, rxin: 0 }

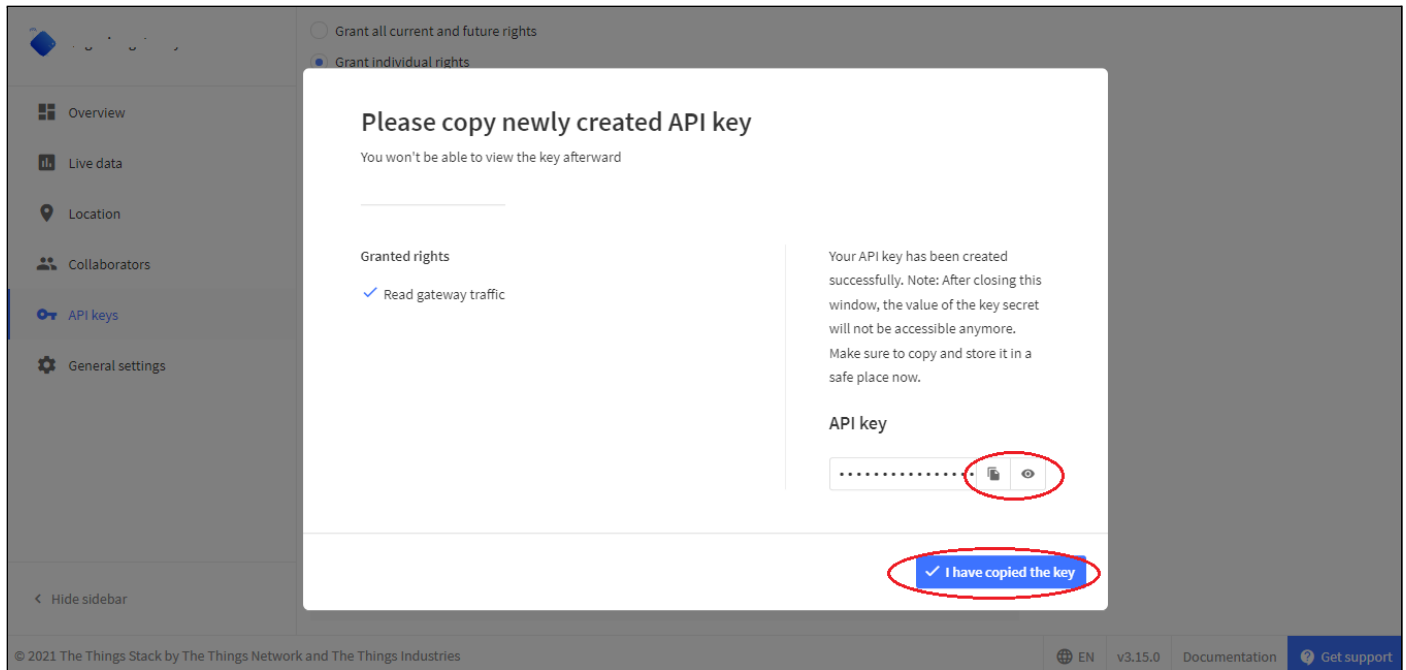
Click on “Add API key”

The screenshot shows the 'API keys' page in The Things Stack Community Edition. The left sidebar contains navigation links: Overview, Live data, Location, Collaborators, API keys (selected), and General settings. The main content area shows a table of API keys with columns for Key ID, Name, and Granted Rights. Two keys are listed: 'test_api_key' and 'gw-test-api-key'. A red circle highlights the '+ Add API key' button in the top right corner.

Give the API key a name, and click on “Grant individual rights”. RoLaGuard only needs permission to **read gateway traffic**. Finally, click on **Create API key**.

The screenshot shows the 'Add API key' form in The Things Stack Community Edition. The left sidebar is the same as the previous screenshot. The main content area shows the 'Add API key' form with a 'Name' field containing 'example-name'. Under the 'Rights' section, the 'Grant individual rights' option is selected and circled in red. Below this, a list of permissions is shown, with the 'Read gateway traffic' checkbox checked and circled in red. At the bottom of the form, the 'Create API key' button is circled in red.

TTN will provide you with the API key you just created. **Make sure to copy this key before clicking “I have copied the key”, because it cannot be accessed again after that.** If you don't copy this key, you'll need to create a new one.

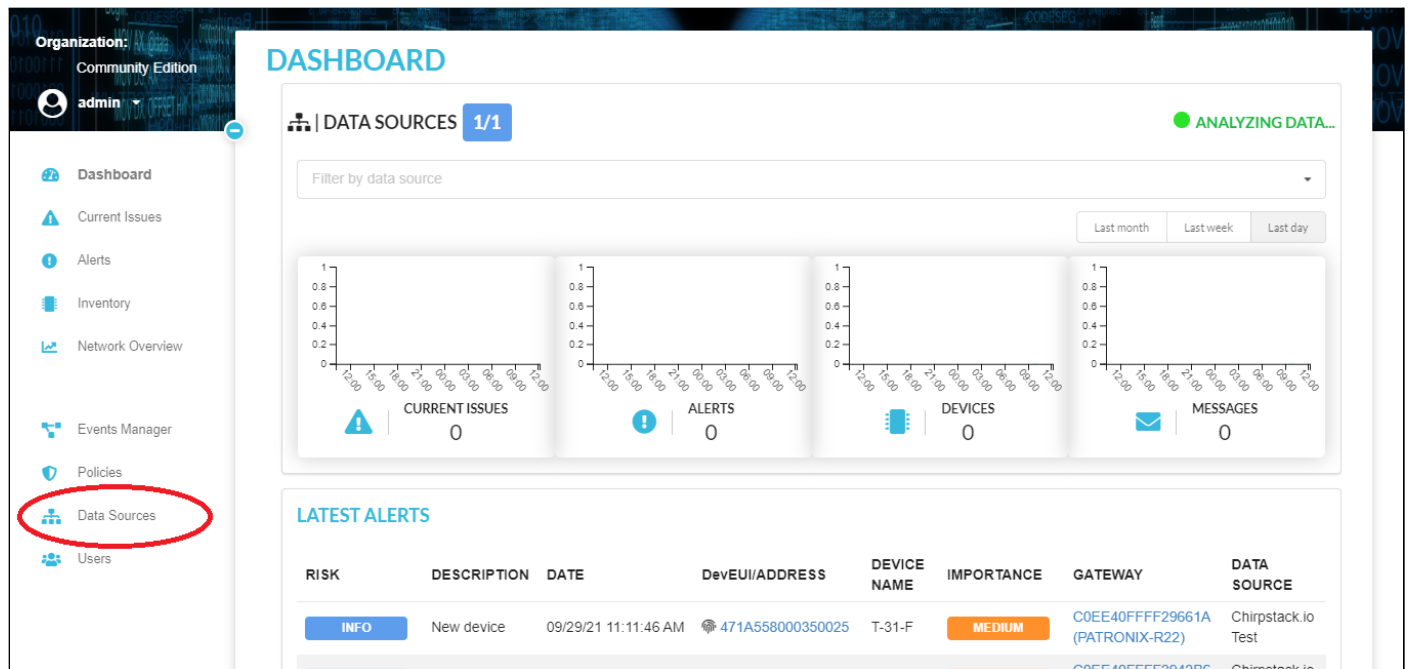


2- Set up in LoRaGuard

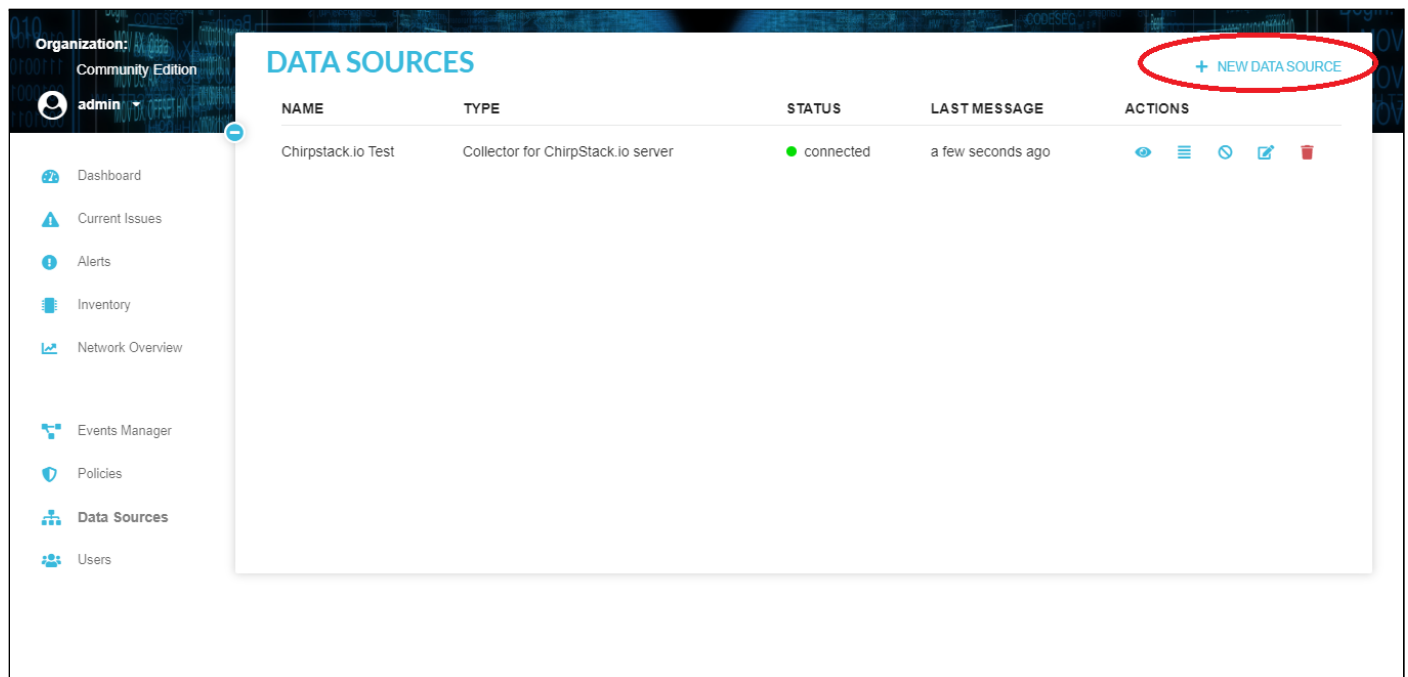
1. Create an account in LoRaGuard

First, you should have created a user and be logged into the system. If you don't have an account yet, you can create it [here](#).

Once in LoRaGuard's main page, go to **Data Sources**.



Click on “**New data source**”:



Finally, provide the Gateway ID and the Gateway API Key you've previously created in TTN. Note that you can only access the API key only once when you create it. If you lost this key, you'll need to generate a new one.

When you finish, you must **click on "Test connection"** before saving the data source:

Organization: Community Edition

admin

Dashboard

Current Issues

Alerts

Inventory

Network Overview

Events Manager

Policies

Data Sources

Users

New Data Source

Name * example-name

Type * Collector for The Things Network v3

Policy * Default

Description

Region * North America 1 (nam1)

Gateway ID *

Gateway API Key *

Test connection

Cancel Save

Organization: Community Edition

admin

Dashboard

Current Issues

Alerts

Inventory

Network Overview

Events Manager

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New Data Source

Name * example-name

Type * Collector for The Things Network v3

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Gateway ID *

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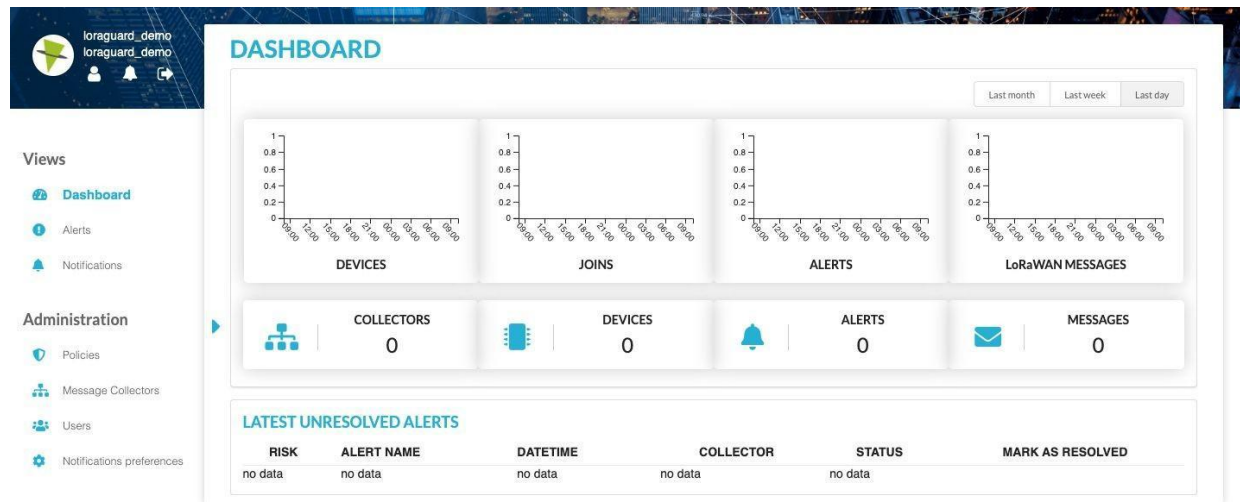
Test connection

Cancel Save

SUCCESS: Connection successful

Now, save the new collector and you're all set. From this point, LoRaGuard will connect to the TTN console and start to save and analyze packets. In the meantime, it's recommended to **give a look at the policies** so that you can configure them. Also, it's recommended to **take a look at the dashboard** to see the metrics, and the **alerts** if there is any.

A screenshot of the dashboard:



The policies page:

The 'POLICIES' page in 'loraguard_demo' includes a '+ NEW POLICY' button and a table with columns: NAME, MESSAGE COLLECTORS, and ACTIONS. The table lists a single policy named 'Default' with 'None' as its message collector. The actions column contains icons for viewing and editing the policy.

NAME	MESSAGE COLLECTORS	ACTIONS
Default	None	