

LoRaguard - Instructions for The Things Network (TTN) connection

Objective

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

Steps

1- Set up in TTN

In short, we need to generate a user in TTN site whose credentials will be provided to [LoRaguard](#). Then, we need to grant this user permissions to read gateway's messages. Of course you can provide your own TTN account, but this is discouraged.

1. Create an account in TTN

This is the account you'll need to provide to LoRaguard. Go to the sign up menu in TTN, <https://account.TheThingsNetwork.org/users/login>. Then, enter your credentials.



CREATE AN ACCOUNT

Create an account for The Things Network and start exploring the world of Internet of Things with us.

USERNAME

This will be your username — pick a good one because you will not be able to change it.



EMAIL ADDRESS

You will receive a confirmation email, as well as occasional account related emails. If this email address is managed by a third party (such as for corporate email addresses), this third party might block emails coming from The Things Network. This email address is not public.



PASSWORD

Use at least 6 characters.



NEWSLETTER



Subscribe to the newsletter.

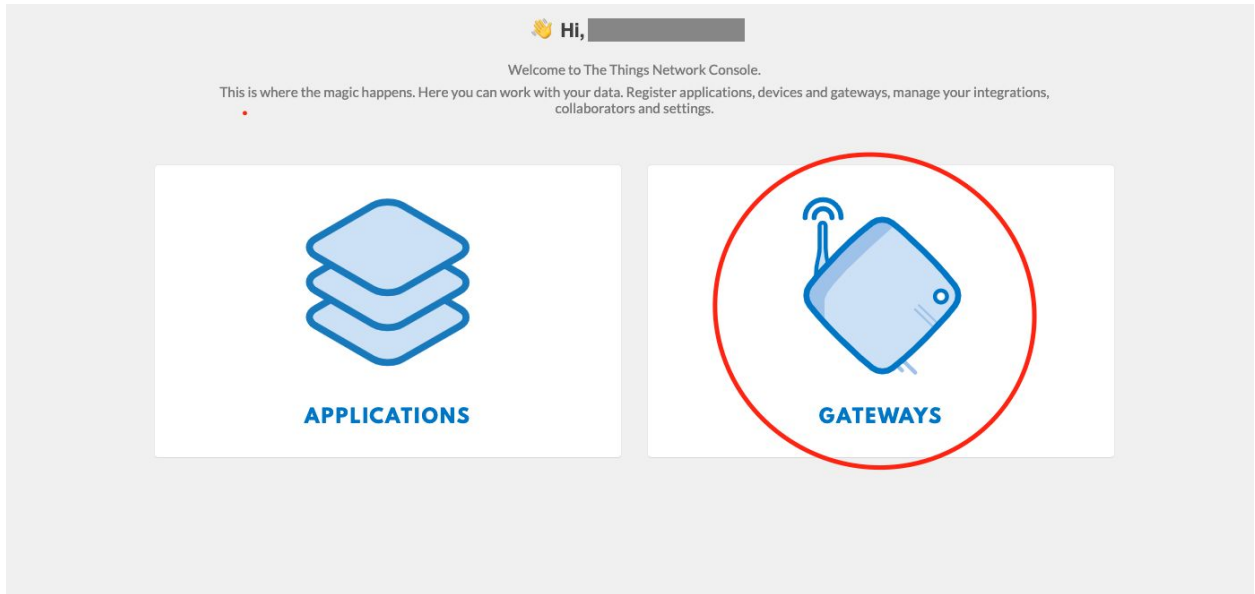
☐

Create account

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

2. Now, in the account which is owner of the gateway, we need to give permissions to read gateway's data to the previously created account. Note that here you can grant permission for a simple or multiple gateways.

Go to <https://console.thethingsnetwork.org/> and select **"Gateways"**.



Now, **select the gateway you want to add to LoRaguard.**

Go to **Settings**.

Gateways > eui-

Overview Traffic **Settings**

GATEWAY OVERVIEW

Gateway ID eui-

Description

Owner [Transfer ownership](#)

Status ● connected

Frequency Plan United States 915MHz

Router ttn-router-us-west

Gateway Key base64

Last Seen 1 second ago

Received Messages 15551

Transmitted Messages 315

Then, go to **Collaborators** -> **Add a collaborator**.

Gateways > eui- Settings

Overview Traffic Settings

GATEWAY SETTINGS

General

Owner

Location

Privacy

Information

Collaborators

COLLABORATORS

[+ add collaborator](#)

	edit
	edit

Finally, search the user you've just created, grant permissions to see gateway's messages and press 'Add Collaborator'.

Overview Traffic Settings

GATEWAY SETTINGS

General

Owner

Location

Privacy

Information

Collaborators

ADD COLLABORATOR

Username

loraguard_test

Rights

- ☒ **gateway:settings**
Manage the gateway settings and access keys
- ☐ **gateway:collaborators**
Edit the gateway collaborators
- ☐ **gateway:delete**
Delete the gateway
- ☐ **gateway:location**
View the exact location of the gateway
- ☒ **gateway:messages**
View traffic that occurs on the gateway

Cancel Add Collaborator

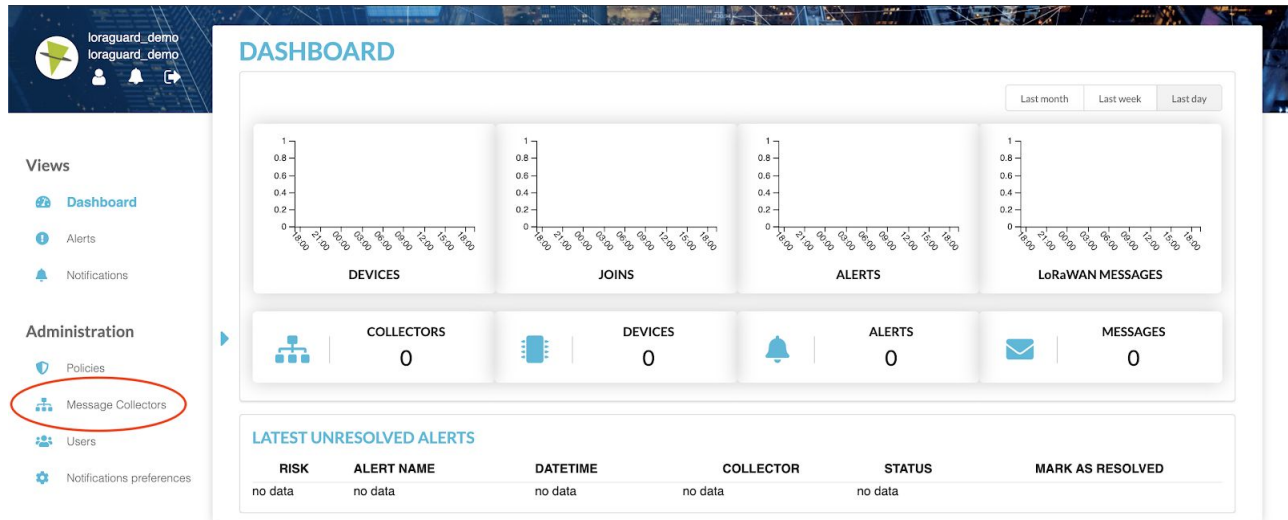
NOTE: If you want to add more than one Gateway, you should repeat this process for each gateway.

2- Set up in LoRaGuard

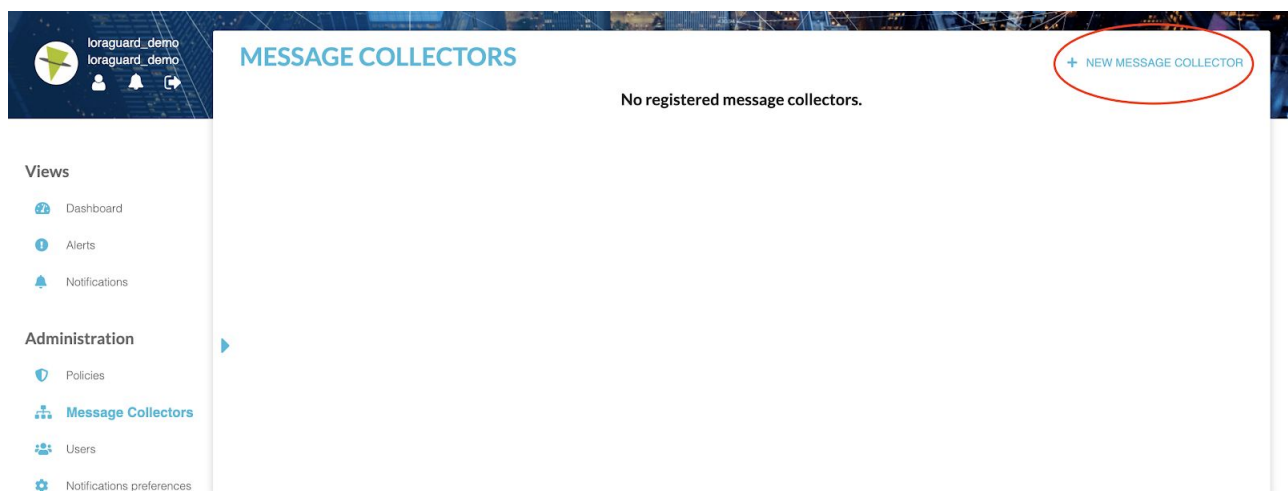
1. Create an account in LoRaGuard

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 main page, **go to Message Collectors**.



Now, go to **New message collector**.



Once in that page, you are able to select a name for that collector, assign a policy to it (if you have previously created one, otherwise you can do it later), a description, and so on. Make sure you select “Collector for TTN” in the collector type.

Finally, provide the credentials of the user you’ve previously created in TTN and the gateway ID you are uploading into LoRaGuard, which has this form “eui-AABBCCDDEEFF0011”. It’s important to provide this gateway ID, since it’s the identifier that LoRaGuard uses to parse the packets in TTN console.

New Message Collector

Name * TTN_test_collector

Type * Collector for TTN

Policy * Default

Description

User * ttn_user

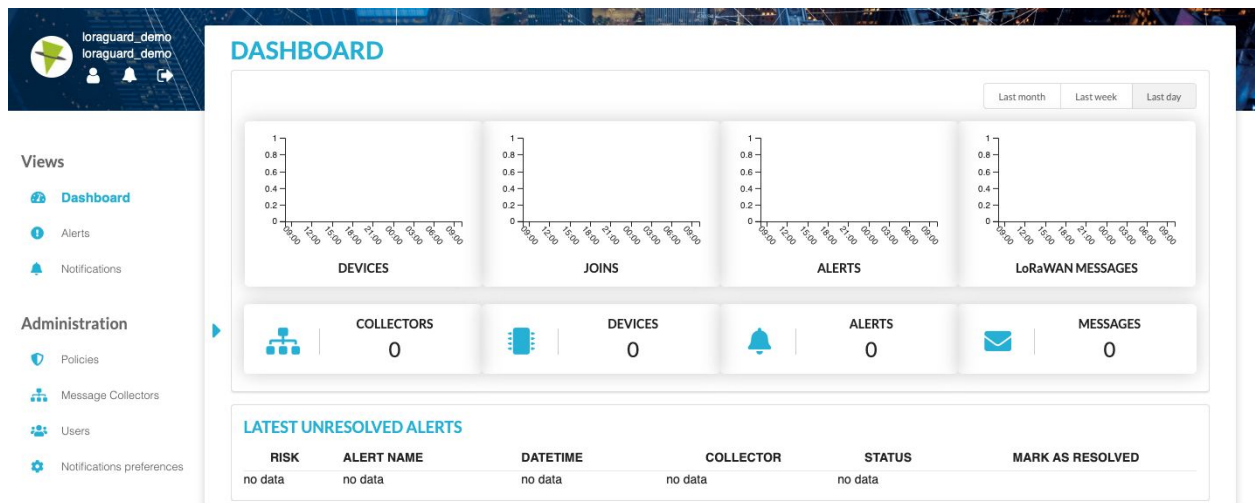
Password *

Gateway ID * eui-AABCCDDEEFF00


Cancel Save

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:





loraguard_demo
loraguard_demo




Views


 Dashboard


 Alerts


 Notifications

Administration


 Policies

 Message Collectors

 Users

 Notifications preferences

POLICIES



NAME	MESSAGE COLLECTORS	ACTIONS
Default	None	