

Getting Started Guide

Create a Freeboard.io dashboard with Live Objects

Freeboard.io is an open source dashboard project with optional hosted subscriptions, easy to integrate with various data sources, ready for production and very well designed.

Choose from a growing collection of widget types

Drag & drop widgets



Share it instantly

Freeboard being a dashboard, then Live Objects can serve as an API for data sources.

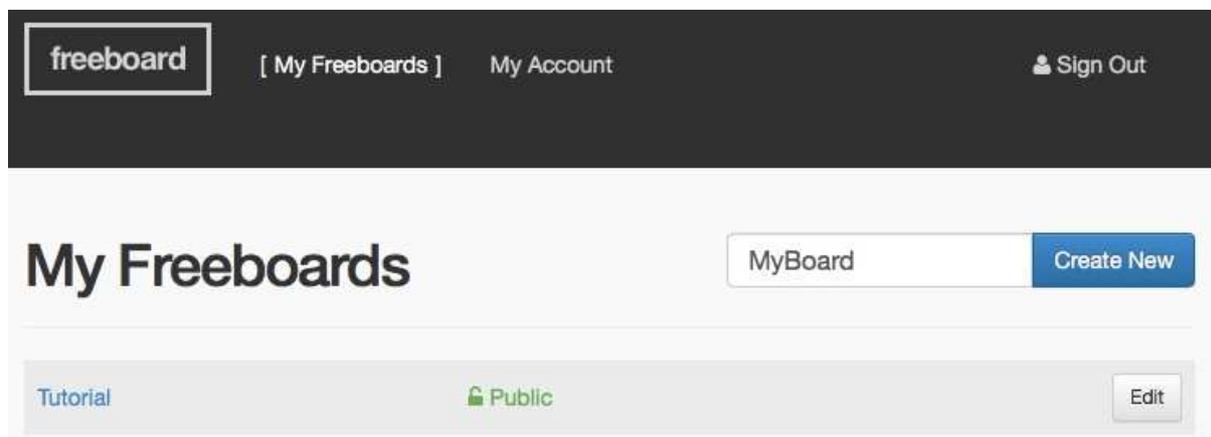
Let's move on to practice.

1- Go to www.freeboard.io

2- Create a free account

Freeboard has two types of account, paying and 30-days free accounts. The free version is enough for test and POCs (but note that your dashboard will be public in read only mode)

A small form appears to succeed this step. After login we can create our Dashboard.



3- Create data source

This is where Live Objects comes in. We draw our data via the Live Objects API.

a) b- How to add a source for MQTT devices

In Datasources, we click on ADD to add a new data source.

We can have a form you will have to fill in as the following:

DATASOURCE

A datasource to load JSON data from a url.

TYPE: JSON

NAME: VeloLivreur

URL: https://liveobjects.orange-business.com/api/v0/data/streams/an

TRY THINGPROXY: YES

REFRESH EVERY: 10 SECONDS

METHOD: GET

BODY: The body of the request. Normally, only used if method is POST

HEADERS:

Name	Value
X-API-KEY	XXXXXXXXXXXXXXXXXXXX

ADD

Fig. Adding a datasource

- In type, choose JSON.
- In name, enter the name you want.
- In method, choose GET.
- In Headers, enter name = "X-API-KEY" ; in Value enter an API key on your account with the accurate rights.
- In URL, enter the URL generated as follow:

In Live Objects, go to "Data" section

If your MQTT device was already connected to Live Objects you can see a line as this in "Data" section.

Date	Source	Stream	Value
01/24/2018 11:06:34 AM	urn:lo:nsid:android:359041083857129	android359041083857129	{ "revmin": 707, "temperature": 68, "hygrometry": 44 } 🔍

Copy the stream value (here *android359775656557129*) and paste it to replace *ZZZZZ* in the following URL

<https://liveobjects.orange-business.com/api/v0/data/streams/ZZZZZ?limit=1>

You will have a URL like this one

<https://liveobjects.orange-business.com/api/v0/data/streams/android359775656557129?limit=1>

and copy paste it in the URL field.

b- How to add a source for LoRa® devices

In Datasource, we click on ADD to add a new data source. We can have a form you will have to fill in as the following:

DATASOURCE

A datasource to load JSON data from a url.

TYPE: JSON

NAME: Lora

URL: api/v0/data/streams/urn:lora:0018B200000021F5!uplink?limit=1

TRY THINGPROXY: YES

REFRESH EVERY: 4 SECONDS

METHOD: GET

BODY:
The body of the request. Normally only used if method is POST.

HEADERS:

Name	Value
X-API-KEY	XXXXXXXXXXXXXXXXXXXX

ADD

SAVE CANCEL

- In type, choose JSON.
- In name, enter the name you want.
- In method, choose GET.
- In Headers, enter name = "X-API-KEY" ; in Value enter an API key on your account with the accurate rights.
- In URL, enter the URL generated as follow:

In **Live Objects**, go to "Data" section

If your LoRa device was already connected to Live Objects you can see a line as this in "Data" section.

Date	Source	Stream	Value	Fcnt	Tags
01/31/2018 3:20:40 PM	0018B200000021F5 ⓘ	urn:lora:0018B200000021F5!uplink	cf1b10010e3c0801 🔍	3	mon_bureau

Copy the stream value (here *urn:lora:0018B200000021F5!uplink*) and paste it to replace ZZZZZ in the following URL

<https://liveobjects.orange-business.com/api/v0/data/streams/ZZZZZ?limit=1>

You will have a URL like this one

<https://liveobjects.orange-business.com/api/v0/data/streams/urn:lora:0018B200000021F5!uplink?limit=1>

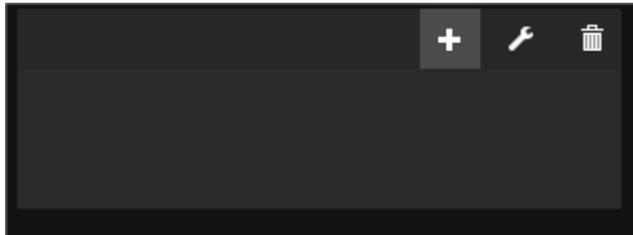
and copy paste it in the URL field.

4- Create widgets

To add widgets, you need first add a pane

A dark grey rectangular button with a white plus sign on the left and the text "ADD PANE" in orange on the right.

Then in a pane, you could add one or several widgets clicking on the +

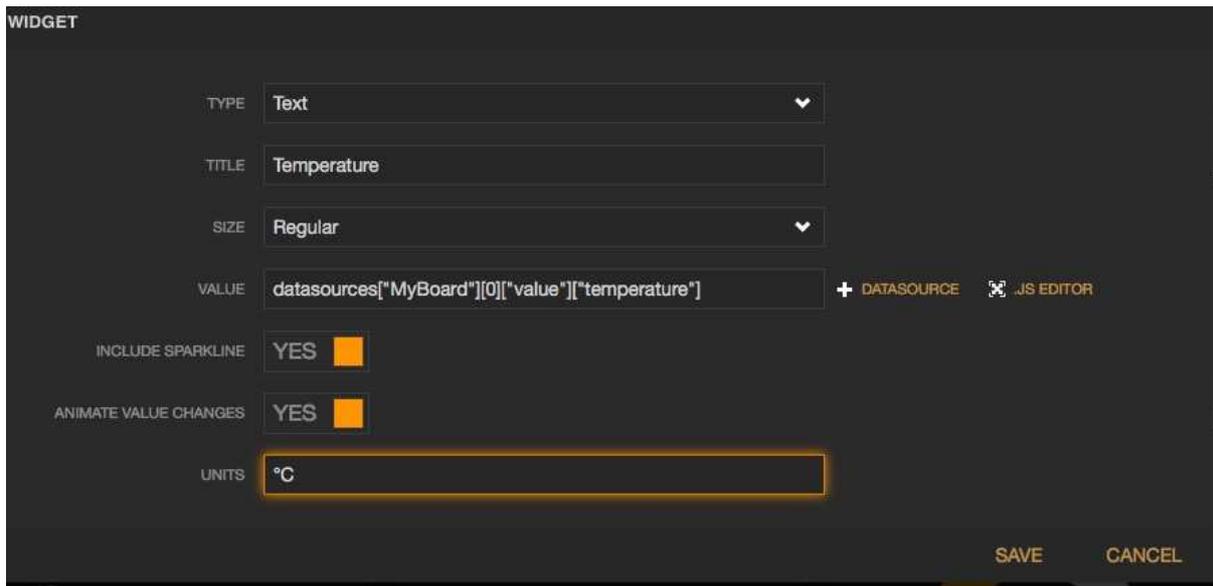


You can use for instance: Google Map, Text, Gauge, Sparkline, Indicator Light.

In the widget you will have several fields. You will have to select the source you have just created and which contains the data you want to display.

Click on datasource  and explore the structure of the json to get a value as this one.

First select the "datasource" with the wished data, then "[0]" to get the last data known by Live Objects, then "value" field in which you find the device payload, finally select the field you want to display.



Add several widgets from several sources and you can get a dashboard as this one :



This dashboard can be shared with the SHARE button at the bottom right.