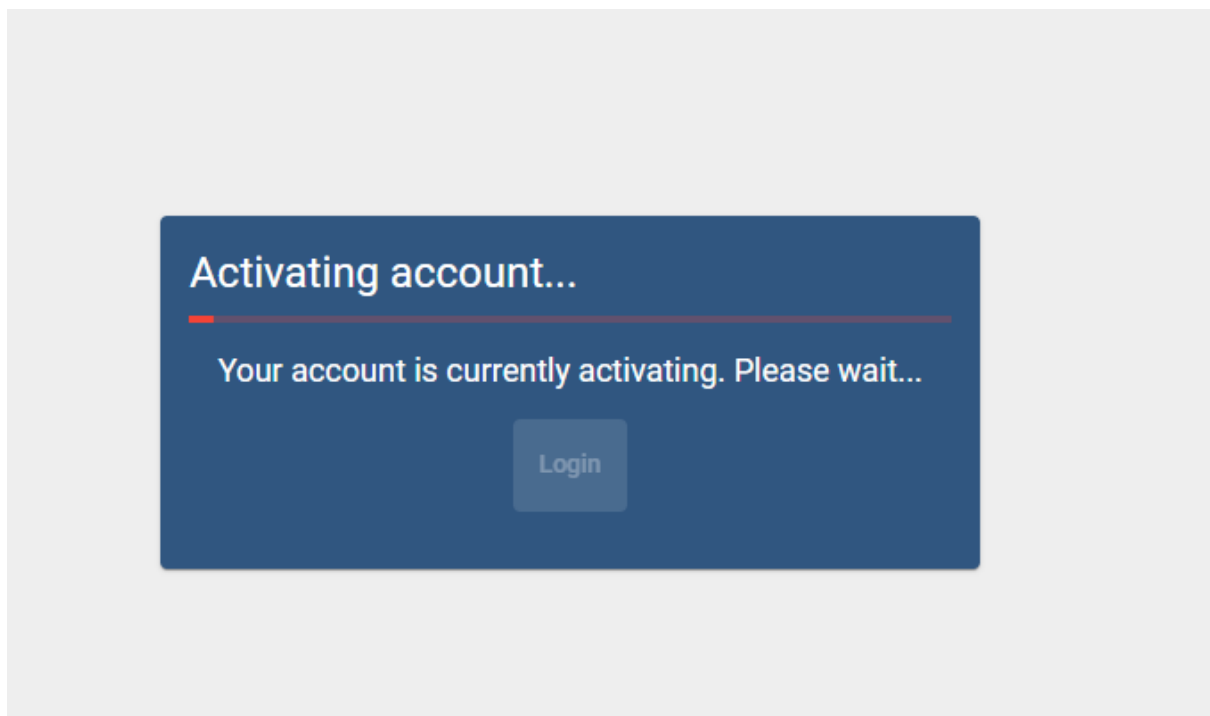
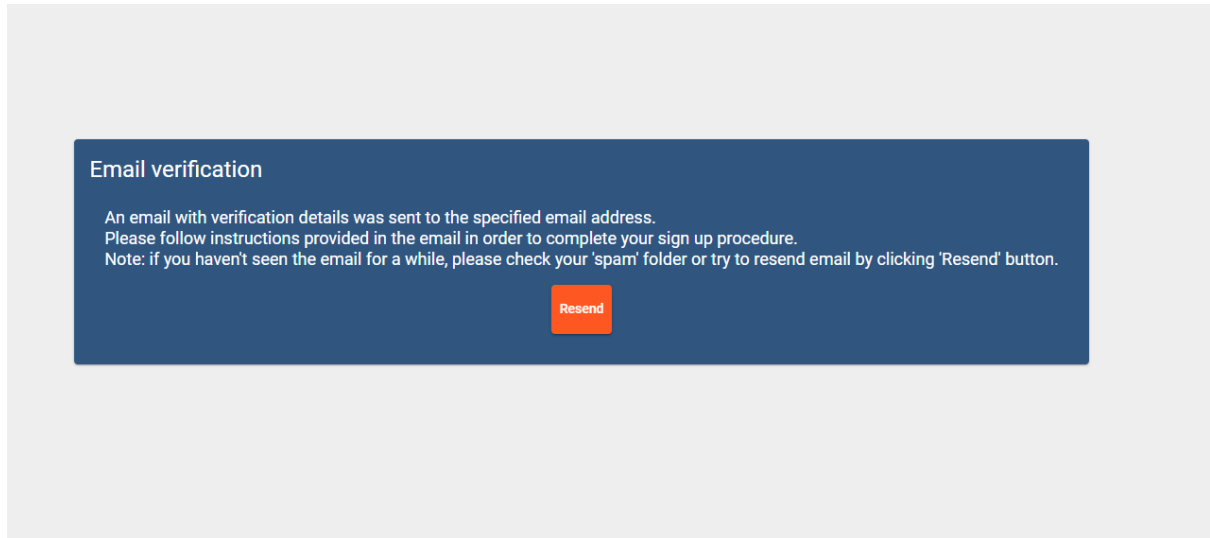


Thingsboard Demo Setup

Step 1: Go to <https://demo.thingsboard.io>

Create account. Once created, you need o activate it.



After account is activated, you will be redirected to the following dashboard

ThingsBoard

Home

Home

Rule chains

Customers

Assets

Devices

Profiles

OTA updates

Entity Views

Edge Instances

Edge management

Widgets Library

Dashboards

Version control

Audit Logs

Api Usage

System Settings

Total devices17

Active devices00.00%

Inactive devices17100.00%

Temperature sensors2

Air quality sensors2

Getting started with ThingsBoard

Hi, Jolly!

Thank you for your interest in the ThingsBoard open-source IoT Platform, and our live demo. At the moment you are browsing a special dashboard called "Home". We have prepared this dashboard with several use cases listed below. On the top of the dashboard, you may find some cards. Click on one of the cards to see the list of corresponding devices. Click on the bell icon to see the list of those devices. You may always change the content of this dashboard using this [guide](#). You may also change the home dashboard for your user in the [profile](#).

But first, we recommend you to follow the [getting started](#) guide. There you will learn the basics about how to connect devices, configure alarm rules, provision dashboards and assign them knowledge from the getting started guide, it will be much easier to adopt those use cases according to your needs.

Demo use cases

Environmental monitoring

Temperature Last 24h

Sensors

Name	Temp	Active
Sensor C1	18°C	Active
Sensor T1	21°C	Active

Sensor C1

Sensor T1

Basic environmental monitoring use case that visualizes sensors on the map and to provision new sensors and assign them to customers. Allows the custom use thresholds for each sensor and manage the alarms. Use this as a template for other monitoring projects.

The use case introduces few ThingsBoard concepts: [device](#), [device profile](#), [multi widget-actions](#). The ["Environmental monitoring"](#) dashboard contains useful examples.

Step 2: Create new asset

ThingsBoard

Assets

Home

Rule chains

Customers

Assets

Devices

Profiles

OTA updates

Entity Views

Edge Instances

Edge management

Widgets Library

Dashboards

Version control

Audit Logs

Api Usage

System Settings

Assets

Asset profileAll

<input type="checkbox"/>	Created time ↓	Name	Asset profile	Label	Customer
<input type="checkbox"/>	2023-03-26 13:49:53	Main_tb-rule-engine1			
<input type="checkbox"/>	2023-03-26 13:49:33	Main_tb-rule-engine2			
<input type="checkbox"/>	2023-03-26 13:49:08	Charging Station C1			Demo Customer
<input type="checkbox"/>	2023-03-26 13:49:08	Office center			Demo Customer

Add Asset

Name *

TestAsset

Asset profile *

default

Label

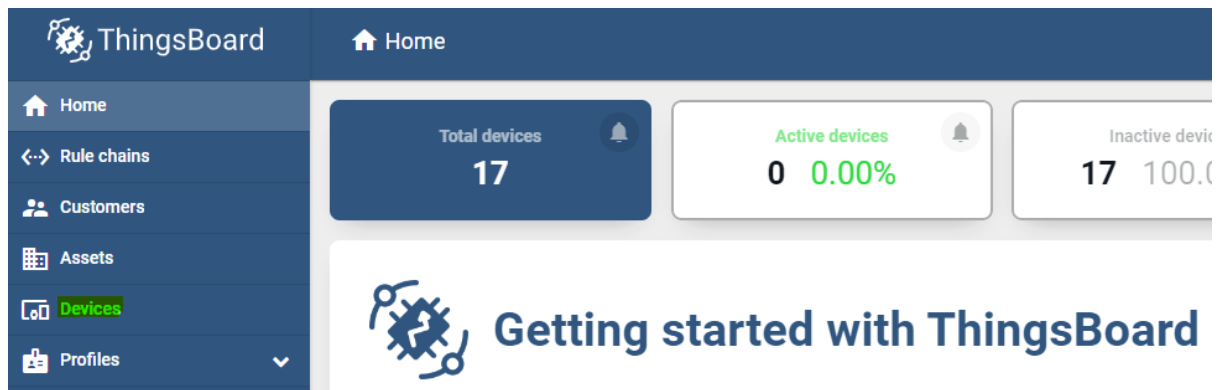
TestAsset

Description

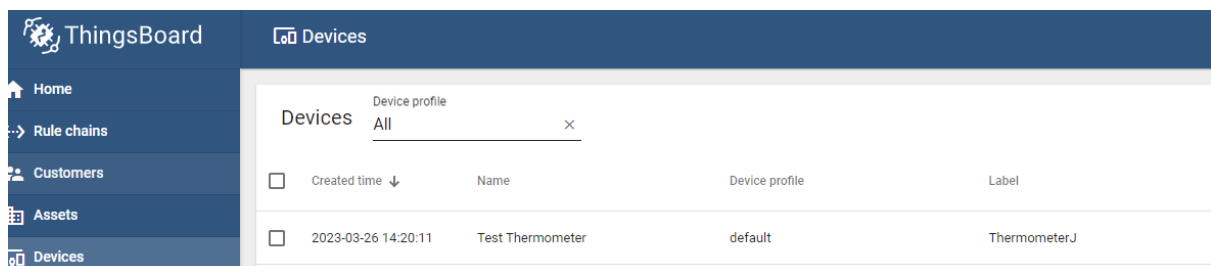
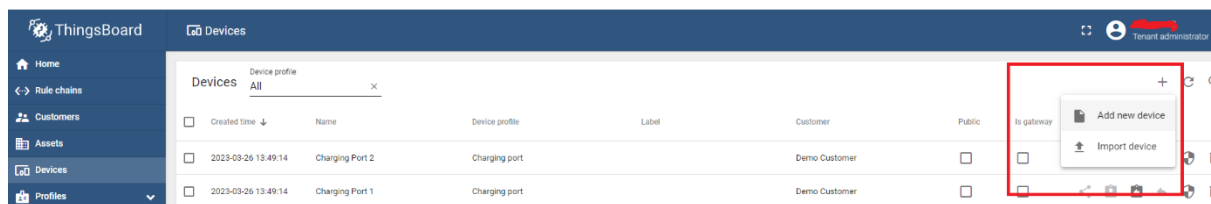
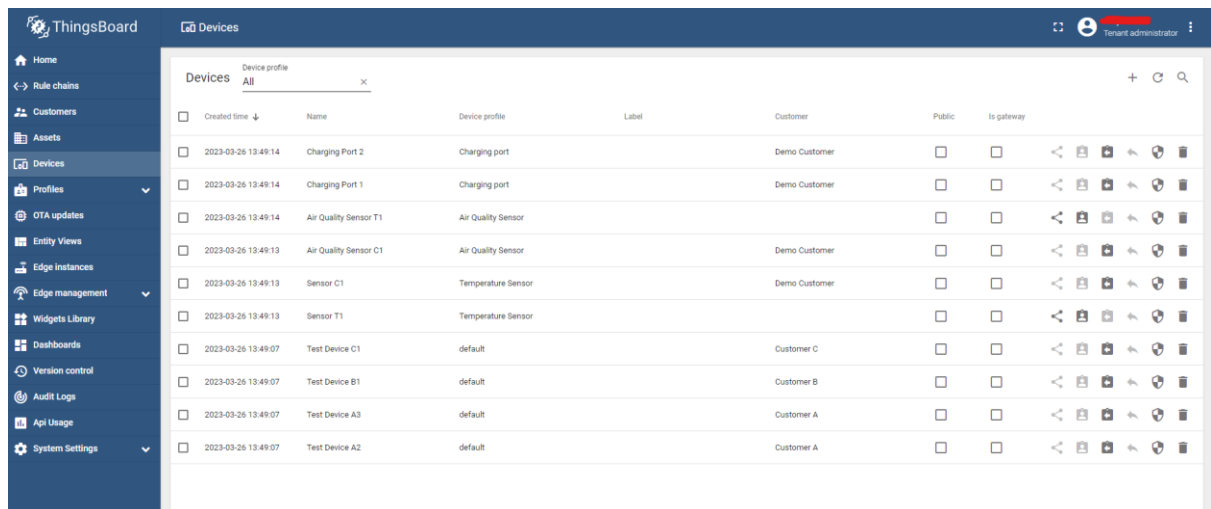
Cancel

Add

Step 3: Go to Devices



Device page will look like this



ThingsBoard

Home

Rule chains

Customers

Assets

Devices

Profiles

OTA updates

Entity Views

Edge instances

Edge management

Widgets Library

Dashboards

Version control

Audit Logs

Api Usage

System Settings

Devices

Device profile
All

Created time

Name

Device profile

2023-03-26 14:20:11

Test Thermometer

default

2023-03-26 13:49:14

Charging Port 2

Charging port

2023-03-26 13:49:14

Charging Port 1

Charging port

2023-03-26 13:49:14

Air Quality Sensor T1

Air Quality Sensor

2023-03-26 13:49:13

Air Quality Sensor C1

Air Quality Sensor

2023-03-26 13:49:13

Sensor C1

Temperature Sens

2023-03-26 13:49:13

Sensor T1

Temperature Sens

2023-03-26 13:49:07

Test Device C1

default

2023-03-26 13:49:07

Test Device B1

default

2023-03-26 13:49:07

Test Device A3

default

Test Thermometer

Device details

Details

Attributes

Latest telemetry

Alarms

Events

Relations

Audit Logs

Version control

Open details page

Make device public

Assign to customer

Manage credentials

Delete device

Copy device id

Copy access token

Name

Test Thermometer

Device profile

default

Label

Thermometer.J

Assigned firmware

Assigned software

☐ Is gateway

Description

ThingsBoard

Home

Rule chains

Customers

Assets

Devices

Profiles

OTA updates

Entity Views

Edge instances

Edge management

Widgets Library

Dashboards

Version control

Audit Logs

Api Usage

System Settings

Assets

Asset profile
All

Created time

Name

2023-03-26 22:47:57

TestAsset

2023-03-26 13:49:53

Main_tb-rule-engine1

2023-03-26 13:49:33

Main_tb-rule-engine2

2023-03-26 13:49:08

Charging Station C1

2023-03-26 13:49:08

Office center

TestAsset

Asset details

Events

Relations

Audit Logs

To entity

Type *

Device

Test Thermometer

Entity list

Additional info (JSON)

Tidy Mini

1

Cancel

Add

No relations found

TestAsset
Asset details

Details
Attributes
Latest telemetry
Alarms
Events
Relations
Audit Logs
Version control

Outbound relations

Direction
From

☐
Type ↑

To entity type

To entity name

☐
Contains

Device

Test Thermometer

Test Thermometer
Device details

Details
Attributes
Latest telemetry
Alarms
Events
Relations
Audit Logs
Version control

Latest telemetry

☐
Last update time

Key ↑

Value

No telemetry found

Step 4: Publish Data

Go to command prompt

```
curl -v -X POST -d '{"temperature": 25}'
$THINGSBOARD_HOST_NAME/api/v1/$ACCESS_TOKEN/telemetry --header "Content-Type:application/json"
```

`$THINGSBOARD_HOST_NAME` = <https://demo.thingsboard.io/>

`$ACCESS_TOKEN` – copied earlier

```
C:\Users\>curl -v -X POST -d '{"temperature": 25}' https://demo.thingsboard.io/api/v1/e0Z89t2WBh5mj5wgpJpn/telemetry --header "Content-Type:application/json"
Note: Unnecessary use of -X or --request, POST is already inferred.
* Trying 104.196.24.70:443...
* Connected to demo.thingsboard.io (104.196.24.70) port 443 (#0)
* schannel: disabled automatic use of client certificate
* ALPN: offers http/1.1
* ALPN: server accepted http/1.1
* POST /api/v1/e0Z89t2WBh5mj5wgpJpn/telemetry HTTP/1.1
> Host: demo.thingsboard.io
> User-Agent: curl/7.83.1
> Accept: */*
> Content-Type:application/json
> Content-Length: 19
>
* Mark bundle as not supporting multiuse
< HTTP/1.1 200
< content-length: 0
< date: Sun, 26 Mar 2023 20:09:53 GMT
<
* Connection #0 to host demo.thingsboard.io left intact

C:\Users\>
```

```
C:\Users\>curl -v -X POST -d '{"temperature": 25}' https://demo.thingsboard.io/api/v1/telemetry --header "Content-Type:application/json"
Note: Unnecessary use of -X or --request, POST is already inferred.
* Trying 104.196.24.70:443...
* Connected to demo.thingsboard.io (104.196.24.70) port 443 (#0)
* schannel: disabled automatic use of client certificate
* ALPN: offers http/1.1
* ALPN: server accepted http/1.1
* POST /api/v1/telemetry HTTP/1.1
> Host: demo.thingsboard.io
> User-Agent: curl/7.83.1
> Accept: */*
> Content-Type:application/json
> Content-Length: 19
>
* Mark bundle as not supporting multiuse
< HTTP/1.1 200
< content-length: 0
< date: Sun, 26 Mar 2023 20:09:53 GMT
<
* Connection #0 to host demo.thingsboard.io left intact

C:\Users\>
```

There is now record in latest telemetry

Temperature Generator

Action - generator

?

×

Details

Events

Help

Name *

Temperature Generator

☐ Debug mode

Message count (0 - unlimited) *

0

Period in seconds *

10

Originator Type

Device

Device

Test Thermometer

×

TBEL

Java Script

function Generate(prevMsg, prevMetadata, prevMsgType) {

1

var msg = { temperature: +(Math.random()*5 + 25).toFixed(1) };

2

var metadata = { data: 40 };

3

var msgType = "POST_TELEMETRY_REQUEST";

4

5

return { msg: msg, metadata: metadata, msgType: msgType };

}

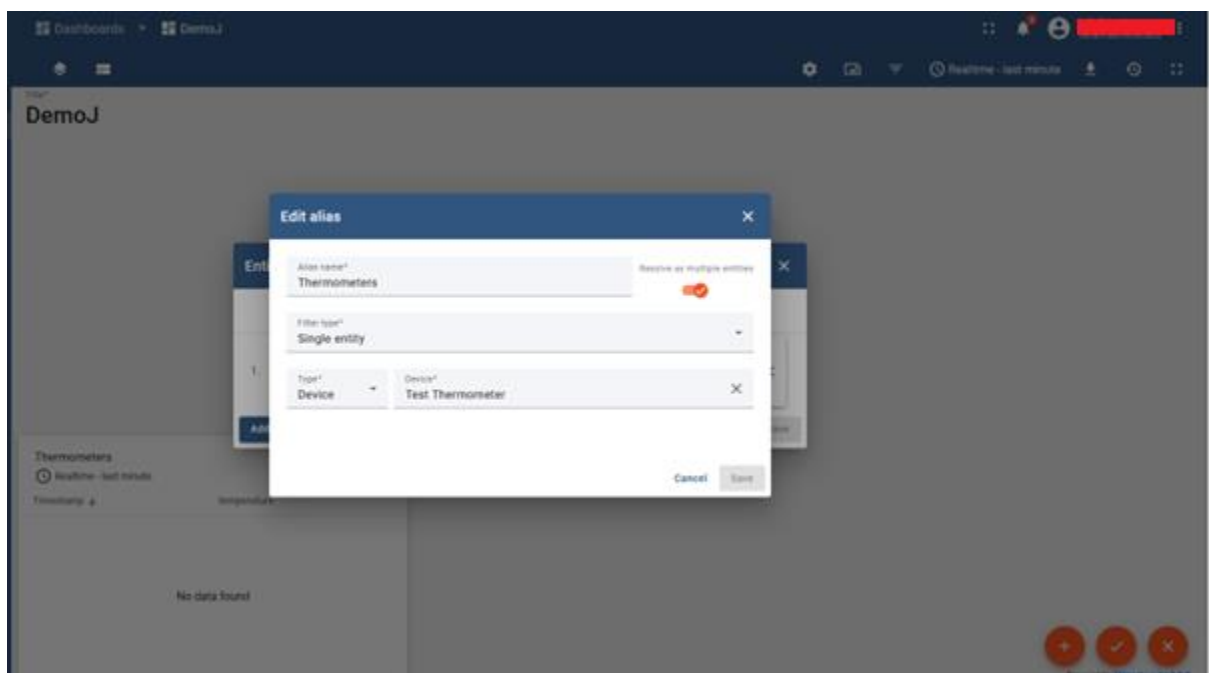
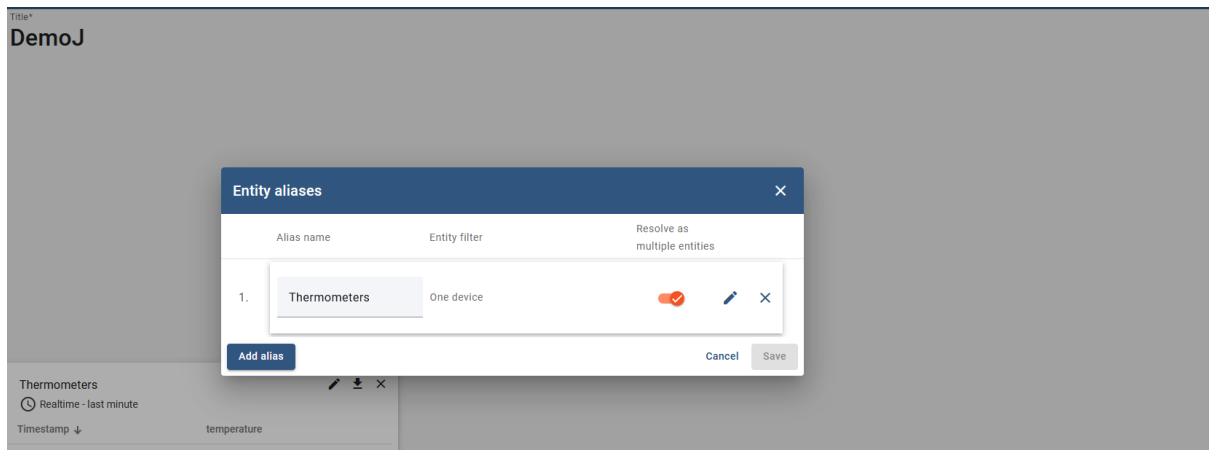
Test generator function

Description

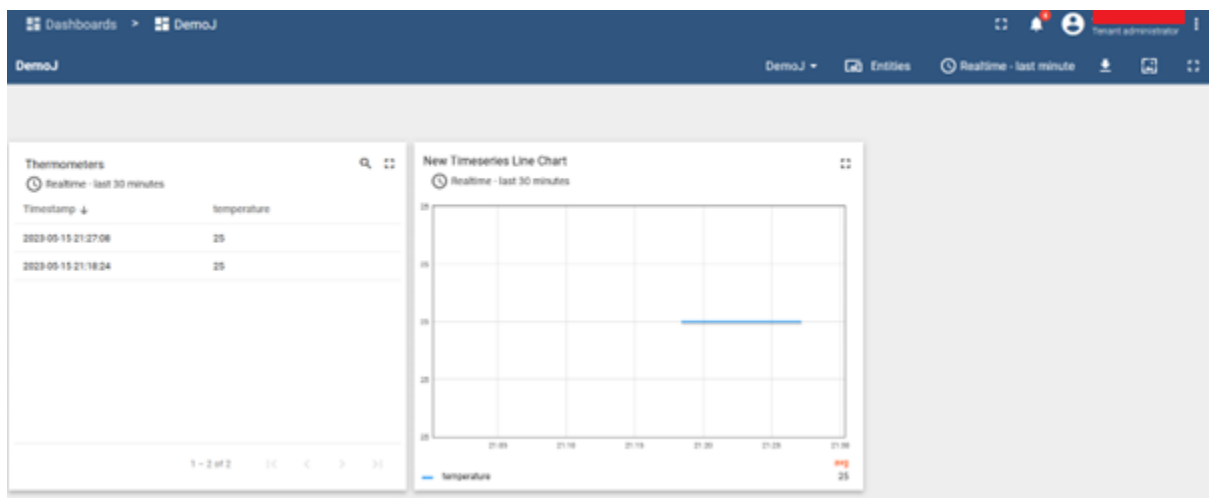
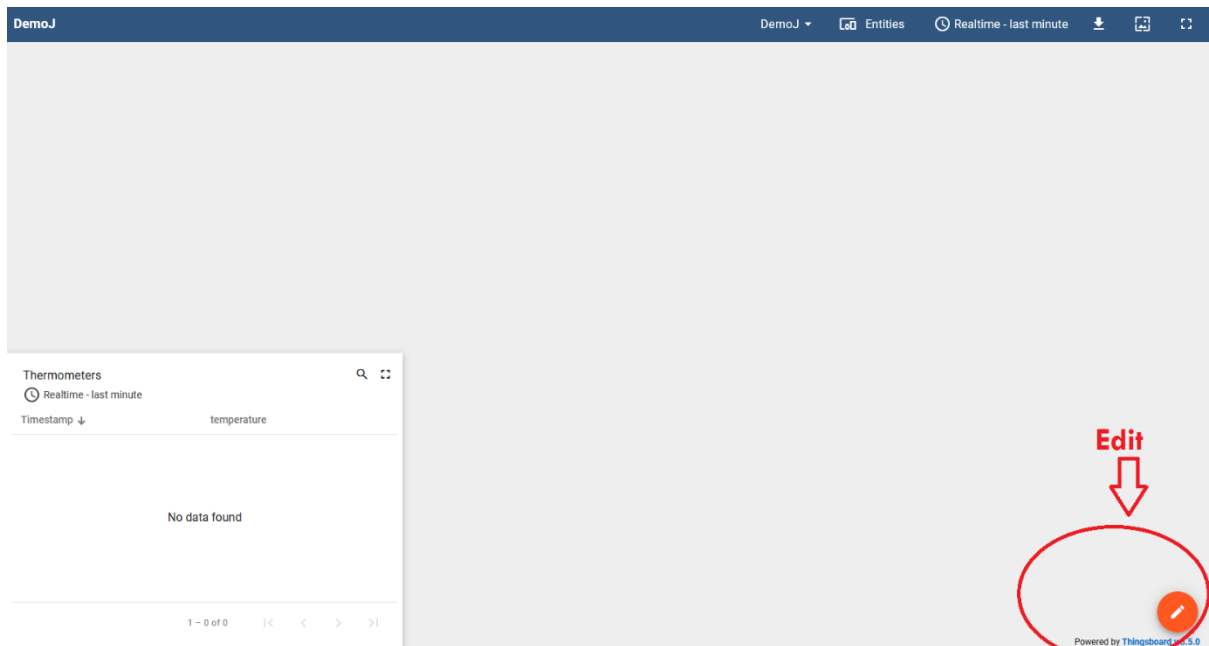
Step 5: Create Dashboard say – “DemoJ”

Created time ↓	Title	Assigned to customers	Public	
<input type="checkbox"/>	2023-03-26 13:49:10	Charging Port (For Mobile App)	Device Claiming Customer, Demo Customer	<input type="checkbox"/>
<input type="checkbox"/>	2023-03-26 13:49:09	EV Charging Stations	Demo Customer	<input type="checkbox"/>
<input type="checkbox"/>	2023-03-26 13:49:09	Air Quality Sensor (For Mobile App)	Device Claiming Customer, Demo Customer	<input type="checkbox"/>
<input type="checkbox"/>	2023-03-26 13:49:09	Indoor Air Quality	Demo Customer	<input type="checkbox"/>
<input type="checkbox"/>	2023-03-26 13:49:09	Sensors	Device Claiming Customer, Demo Customer	<input type="checkbox"/>
<input type="checkbox"/>	2023-03-26 13:49:09	Device claiming		<input type="checkbox"/>
<input type="checkbox"/>	2023-03-26 13:49:09	Temperature Sensor (For Mobile App)	Device Claiming Customer, Demo Customer	<input type="checkbox"/>
<input type="checkbox"/>	2023-03-26 13:49:09	Environmental monitoring	Demo Customer	<input type="checkbox"/>
<input type="checkbox"/>	2023-03-26 13:49:08	Home		<input type="checkbox"/>
<input type="checkbox"/>	2023-03-26 13:49:08	DHT22: Temperature & Humidity Demo Dashboard (Deprecated)		<input type="checkbox"/>

Step 6: Create Entity Alias



Step 7: Edit Dashboard and add widgets



Step 8: Check Device Telemetry

Test Thermometer			
Device details			
Details	Attributes	Latest telemetry	Alarms
Events	Relations	Audit Logs	Version control
Latest telemetry			
<input type="checkbox"/>	Last update time	Key ↑	Value
<input type="checkbox"/>	2023-05-15 21:27:08	temperature	25