

# 如何将 Milesight 的网关和设备集成到 Akenza 平台



Version Change Log			
Version	Revision Date	Revision Details	Revised By
V1.0	20250310	Initial	Lockon



# 前言

Akenza AG 是一家总部位于瑞士苏黎世的公司，成立于 2017 年，专注于提供低代码物联网 (IoT) 平台。该平台旨在帮助企业连接、控制和管理各种 IoT 设备，为智慧城市、工业自动化和环境监测等应用提供支持。Akenza 通过其云端解决方案，使用户能够快速集成不同类型的传感器和网络协议。

本文主要介绍如何使用 UG65 网关借助第三方的 TTN 平台对接 Akenza 平台，并且在 Akenza 平台上添加 AM308 设备作为示例，配置简单的规则案例。

## 1. 前置条件

- 网关型号：UG65（固件版本 v60.0.0.45）或者 UG56、UG67 也可以
- 传感器型号：AM308，固件为 v1.6
- 本文演示用到的频段：915M (8-15 channel)

## 2. 添加网关到 The Things Network 平台

参考 [Milesight Gateway -The Things Stack\(TTN\) Integration via Basic Station](#) 文章操作即可，配置完成后的结果如下：

- 下面是网关的配置截图，以及状态，如图所示：

The screenshot shows the Milesight Gateway configuration interface. On the left, there's a sidebar with options like Status, Packet Forwarder, Network Server, Protocol Integration, Network, System, Maintenance, and APP. The main area has tabs for General, Radios, Advanced, Custom, and Traffic. Under General, there are fields for Gateway EUI (2AE124FFFEFA3300), Gateway ID (2AE124FFFEFA1111), Frequency Sync (Disabled), and Data Retransmission (checkbox). Below these are sections for Multi-Destination and Packet Filters. The Multi-Destination table lists three entries:

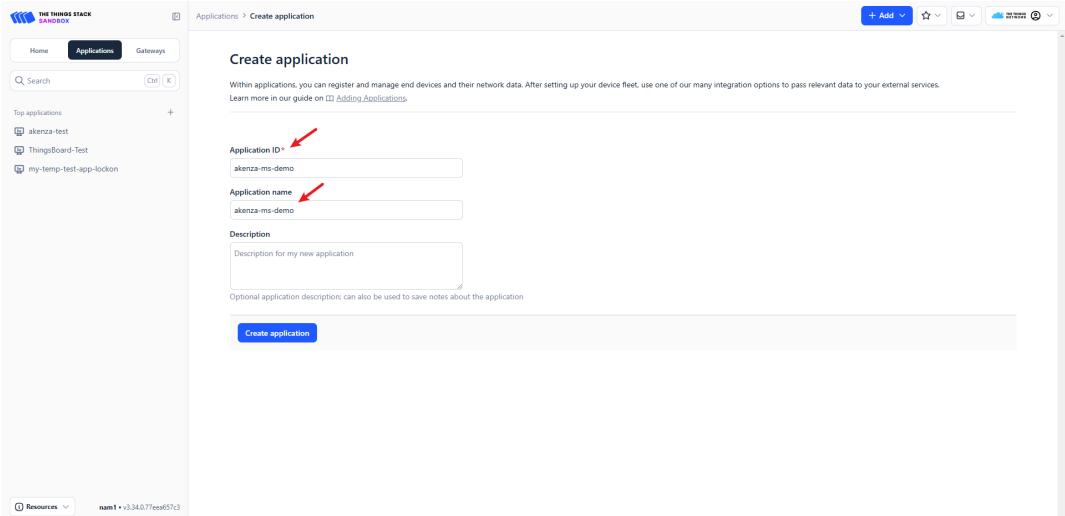
ID	Enable	Type	Server Address	Connect Status	Operation
0	Disabled	Embedded NS	localhost	Disconnected	<input checked="" type="checkbox"/> <input type="checkbox"/>
1	Disabled	Semtech		Disconnected	<input checked="" type="checkbox"/> <input type="checkbox"/>
2	Enabled	Semtech	nam1.cloud.thethings.network	Connected	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>

- 下面是 TTN 平台显示的网关状态，我们可以看到，TTN 已经显示网关上线，并且数据上报正常：

### 3. 创建 Application

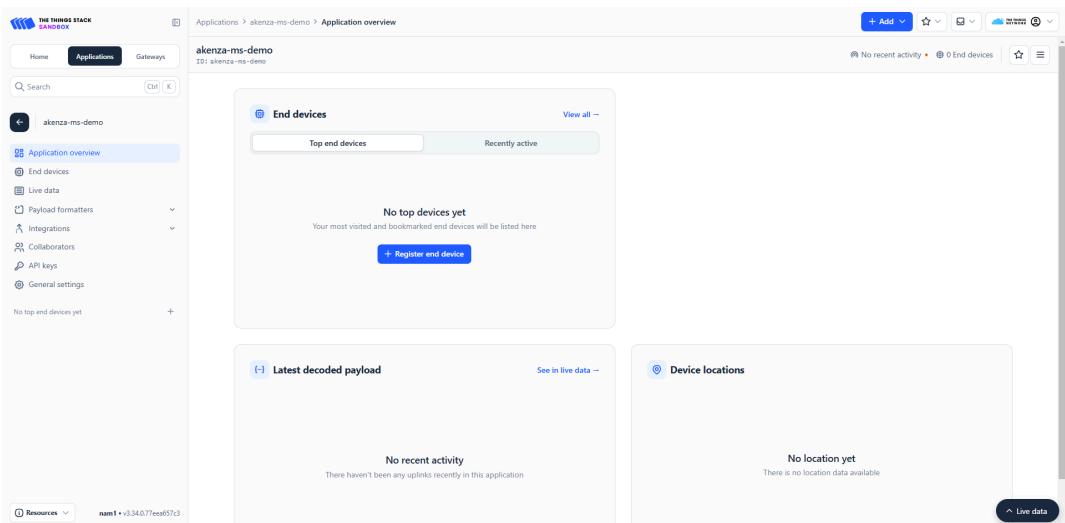
如图进行操作即可：

在弹出的界面中填写下面的信息即可：



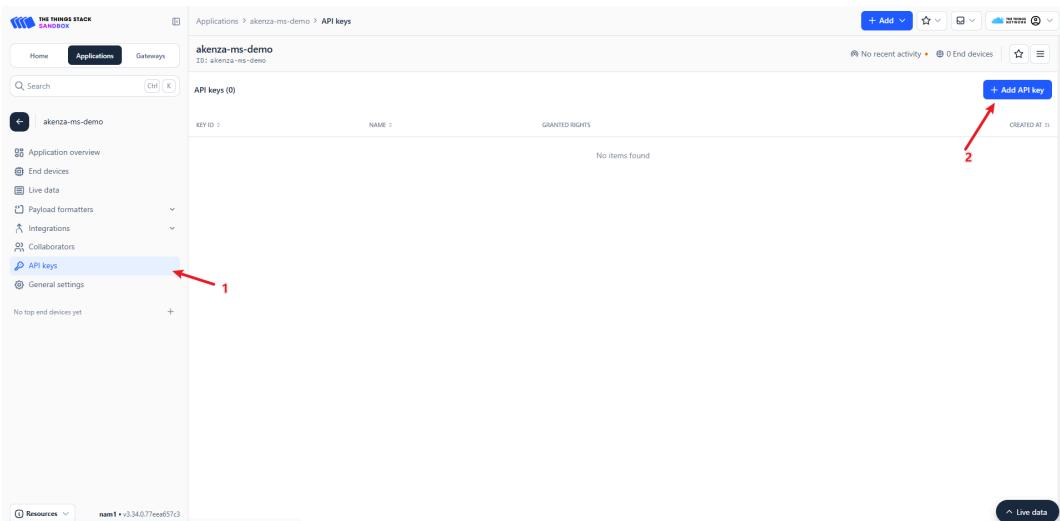
特别说明：Application ID 具有唯一性，不能和已存在的重复，否则无法使用。

创建完毕后如图所示：

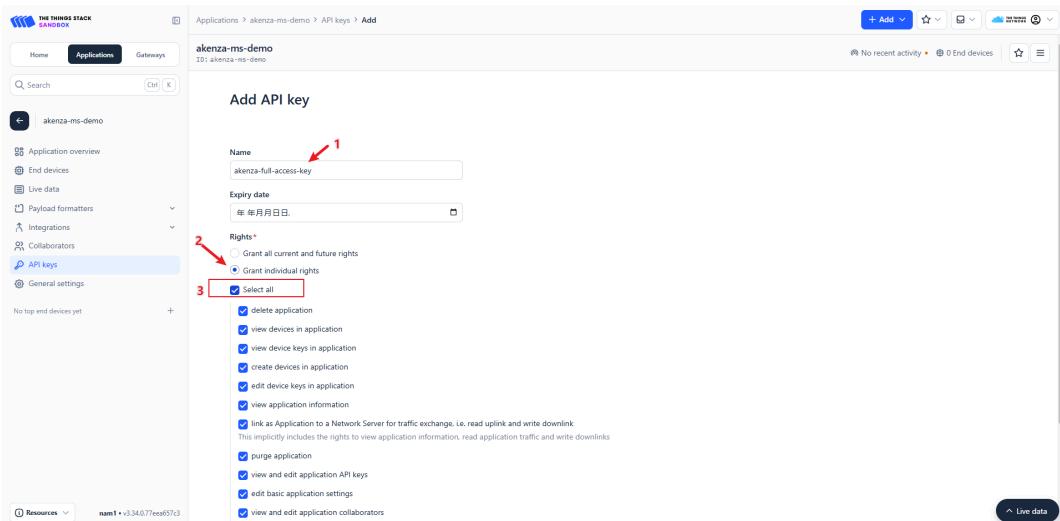


## 4. 创建 API Key

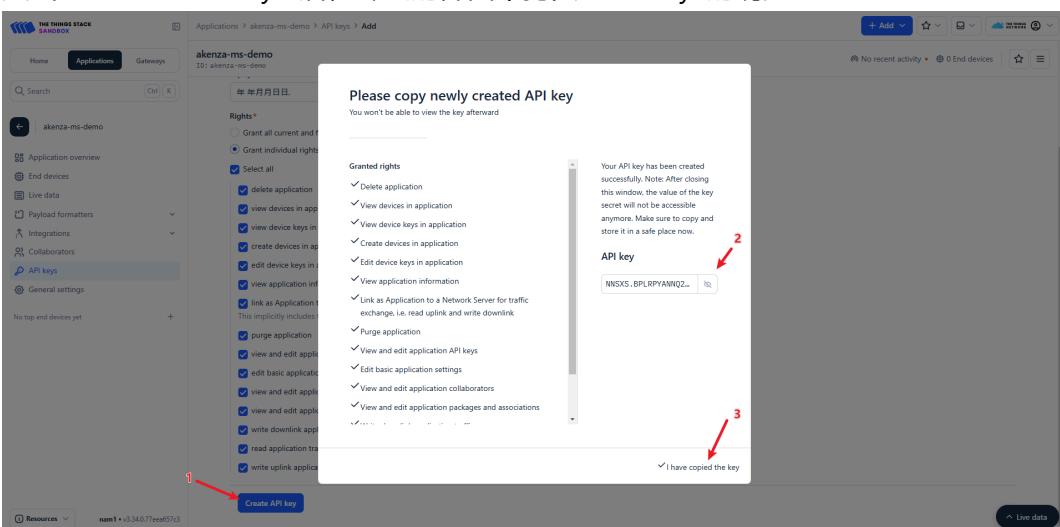
如图依次点击操作即可：



在弹出的界面中，如图进行配置即可，根据 Akenza 的文档建议，这里的权限全部勾选：



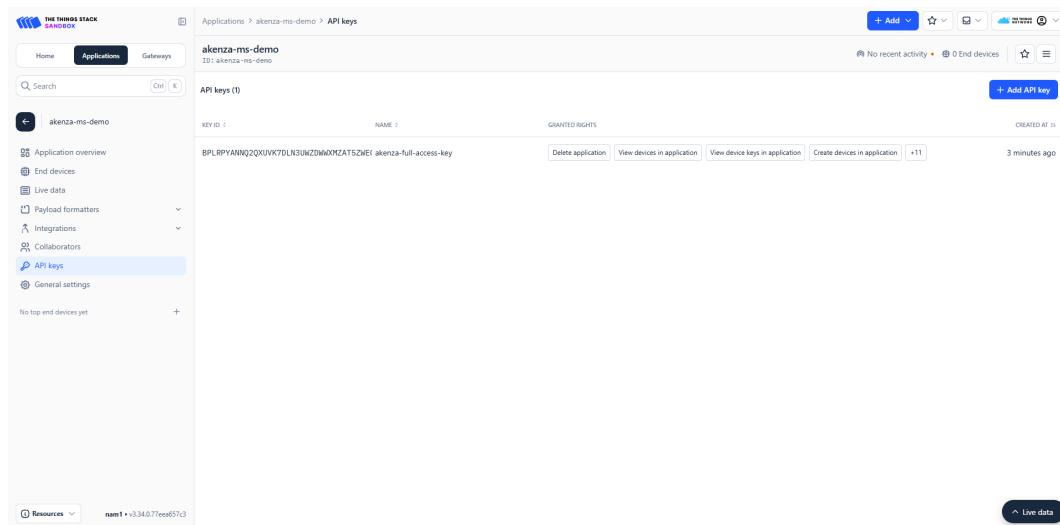
点击“Create API key”后，弹出的界面中拷贝 API Key 的明文：



特别说明：这里的 Key 的明文只显示一次，请现在一定要拷贝出来，否则关闭这个界面后，你就无法再获取当前信息了。

这里的示例 API key 明文如下

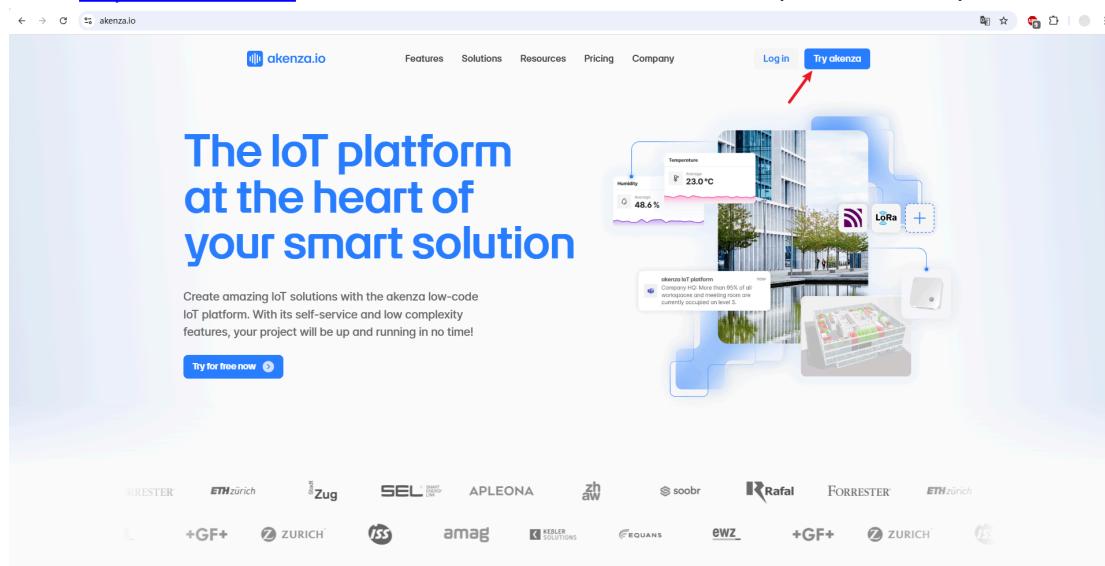
NNSXS.BPLRPYANNQ2QXUVK7DLN3UWZDWWXMZAT5ZWEG5Y.RCLOBZNEHYCCM54TKI6BTS3AU3  
Z4NXHIHGJHWNLPDL2WD7HUPA2Q



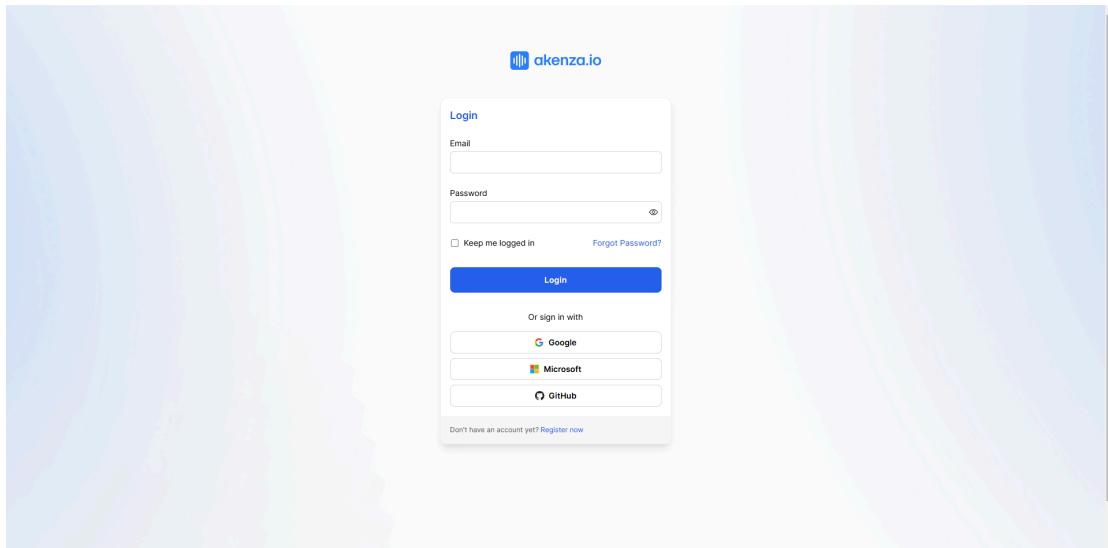
至此，我们在 TTN 平台的操作结束，API key 已经获取，接下来的操作就需要 Akenza 平台上面执行。

## 5. 注册 Akenza 账号

访问 <https://akenza.io/>，页面右上角可以注册一个体验账号（有效期 30 天）

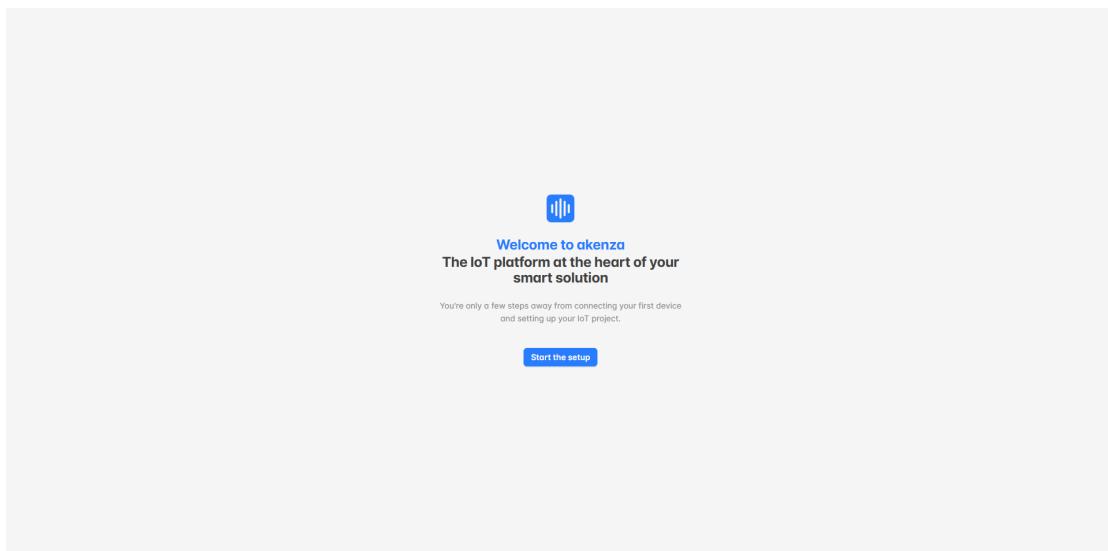


点击进去，根据提示注册即可：



## 6. 创建 Organization

首次登录会提示你创建 Organization，根据提示填写信息即可，这里我以 MS-ORG 为示例进行演示：



Your Organization

The Organization will be the home for your projects.

Organization name  
MS-ORG

Billing currency ⓘ  
CHF USD EUR

Organization description (optional)  
MileSight Demo

Company size (optional)  
Select size

Company industry (optional)  
Select industry

Create Organization

## 7. 创建 Workspace

创建完毕 MS-ORG 之后，还要继续创建 Workspace，根据提示填写信息即可：

Your first Workspace

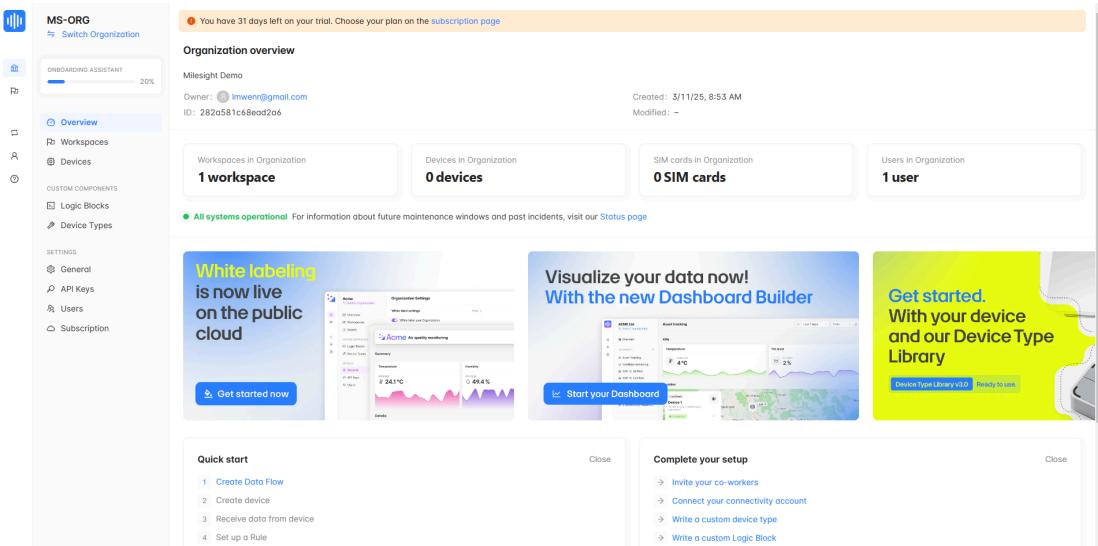
Workspaces allow you to have separate setups for different projects. You can add more Workspaces at any time.

Workspace name  
MS-WP

Workspace description (optional)

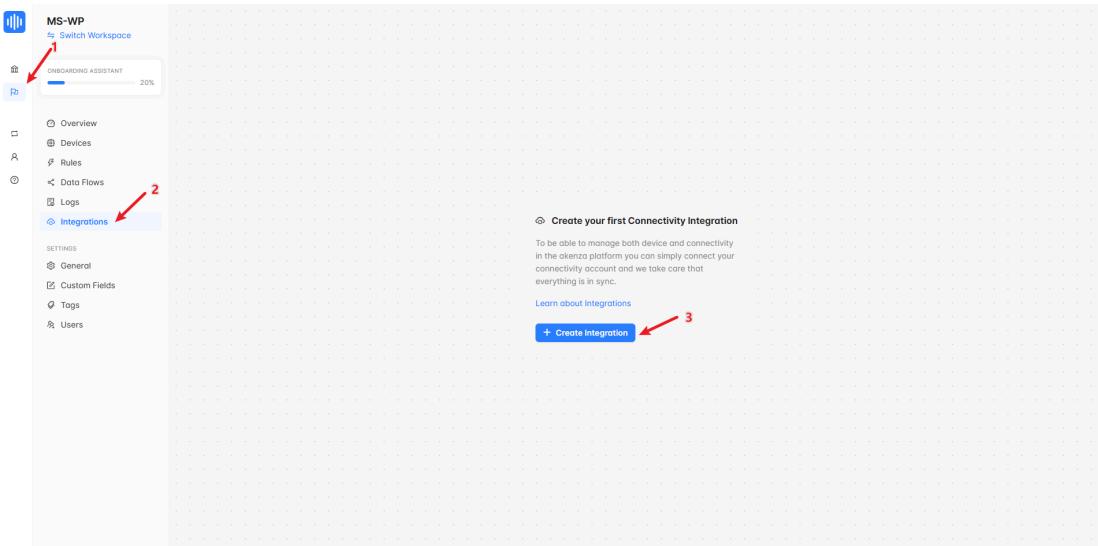
Create Workspace

接下来的步骤保持默认即可，所有流程创建完毕后的效果如下：



## 8. Akenza 对接 TTN 平台

如图进行操作，按顺序点击：



在弹出的界面中点击 “TTN LoRaWAN”选项：

The screenshot shows the 'Integration setup' page with the 'LoRaWAN' tab selected. It displays several options: 'Swiscom LoRaWAN', 'Loriot LoRaWAN', 'Acility LoRaWAN', 'ewz LoRaWAN', 'Celicom LoRaWAN', and 'Everynet LoRaWAN'. Below these, there's a 'Cellular' section with 'iotcreators.com' and a 'Cloud to cloud' section with 'emnethub' and 'hannu'. A red arrow points to the 'TTN LoRaWAN' section.

在弹出的界面中选择你注册的 TTN 的区域的地址，由于我们前面注册的地址是 nam1 区域的，所以这里一定要下拉选择对应的选项，如果不確定自己的区域，可以参考下图的内容参考：

The left screenshot shows the 'Integration setup' page with the 'TTN LoRaWAN host' dropdown set to 'Custom'. A red arrow labeled '2' points to the 'The Things Stack Community EU1' option. The right screenshot shows the 'API keys' section in the TTN dashboard, with the URL 'nam1.cloud.thethings.network/console/applications/akenza-ms-demo/api-keys' highlighted in a red box. A red arrow labeled '1' points to this URL.

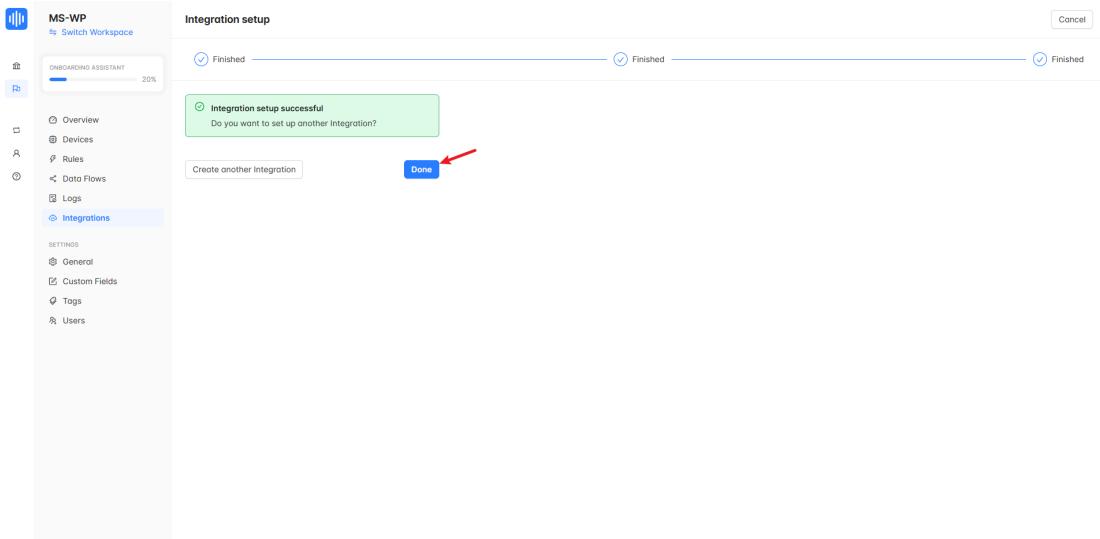
其余的参数根据下面的截图提示填写即可：

The screenshot shows two overlapping interfaces. On the left is the 'MS-WP' integration setup page, which has completed its first step ('Integration login'). It shows fields for 'TN LoRaWAN host' (set to 'The Things Stack Community NAME'), 'Authentication' (set to 'Application ID / API Key'), and 'Application ID' (set to 'akenza-ms-demo'). Below these is an 'API key permissions' section with a note about configuring the API key. On the right is a browser window showing 'The Things Stack API keys' for application 'akenza-ms-demo'. It lists one key: 'BPLRPYANNQ2QXUVK7DLN3UWZDWWXMZAT5Z' with 'NAME' 'akenza-ms-demo'. The 'GRANTED RIGHTS' column shows 'akenza-full-access-key'. A red arrow points from the 'Application ID' field in the MS-WP interface to the 'NAME' field in the API keys list. Another red arrow points from the 'API key' field in the MS-WP interface to the 'KEY ID' field in the API keys list.

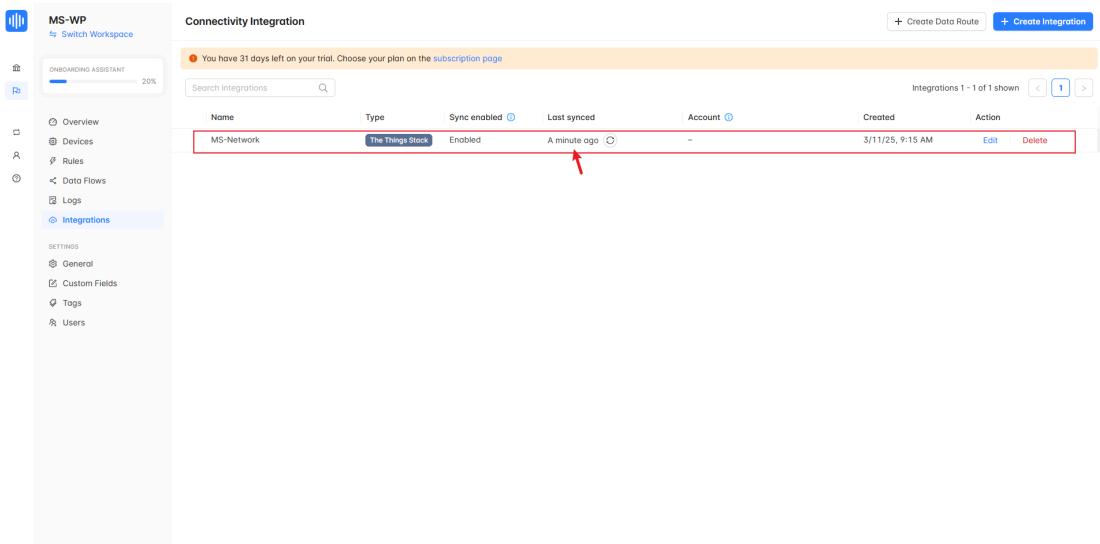
注意，其中的 Authentication 必须选择 Application ID/ API Key，然后根据提示继续填写信息即可，这里我以 "MS-Network" 作为 Integration name 进行示例：

The screenshot shows the 'Integration setup' process for 'MS-Network'. It has completed step 1 ('Integration login') and is currently on step 2 ('Additional account details'). In this step, the 'Integration name' field is filled with 'MS-Network'. A red arrow labeled '1' points to this field. A red arrow labeled '2' points to the 'Next' button at the bottom right of the form. The background shows the 'MS-WP' workspace sidebar.

稍等片刻，平台会自动创建好，截图如下：



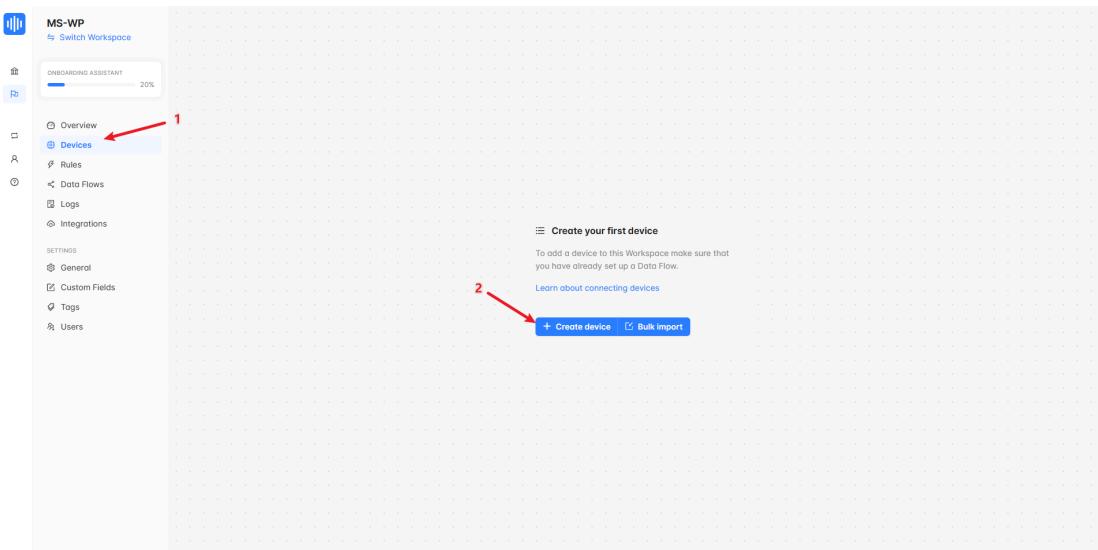
最终的截图如下，这里我们可以看到，网关的数据已经可以和 Akeza 平台同步：



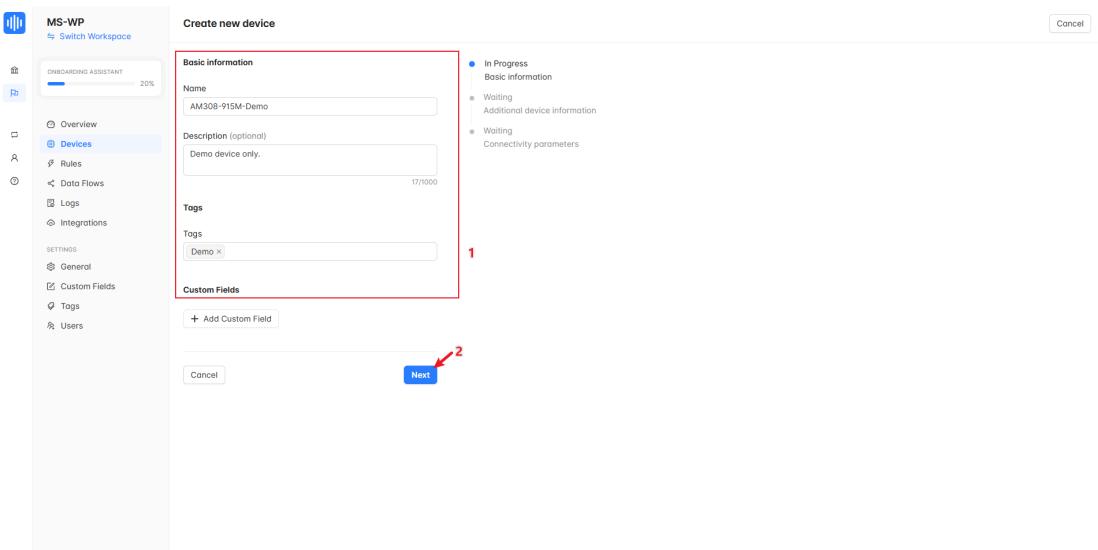
至此，UG65 对接 Akenza 平台完成。

## 9. 添加 LoRaWAN 设备

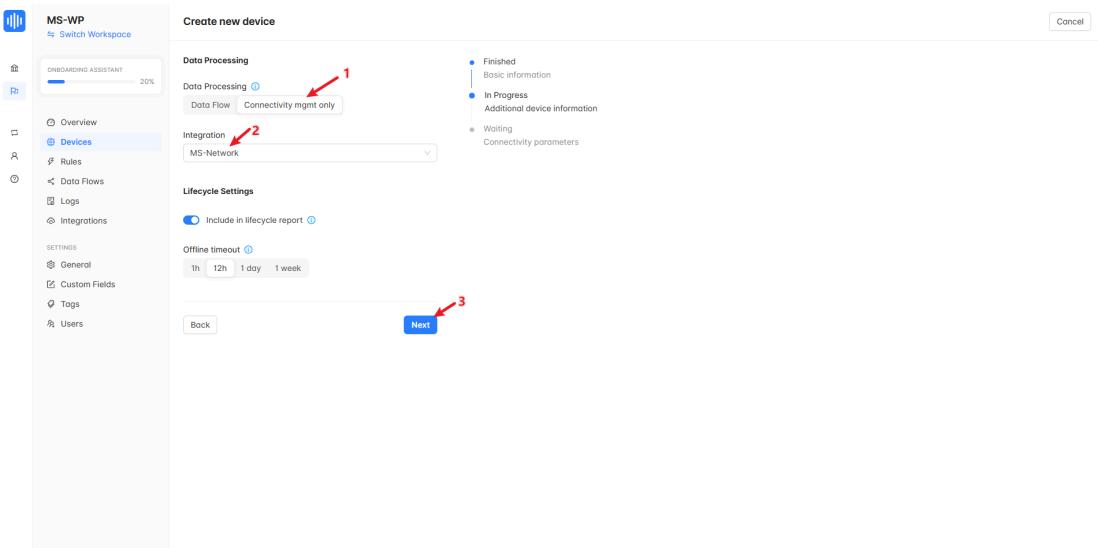
接下来介绍如何添加 Sensor 设备，这里我以 AM308 为示例进行演示。  
如图进行操作：



如图进行信息填写即可,这里我以“AM308-915M-Demo”作为示例进行配置:

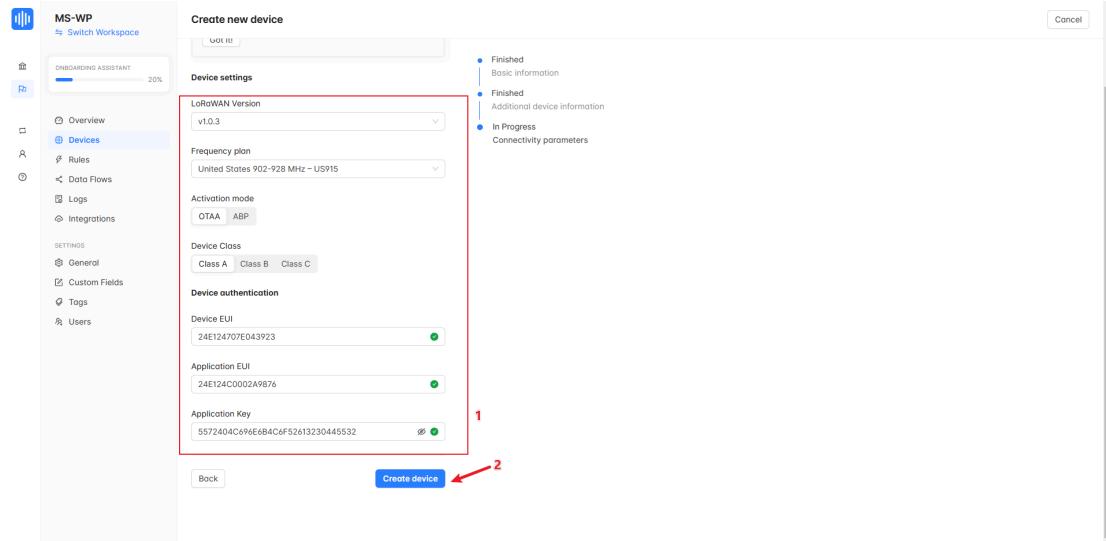


点击“Next”后你会看到下面的界面,参考下面的截图填写即可:

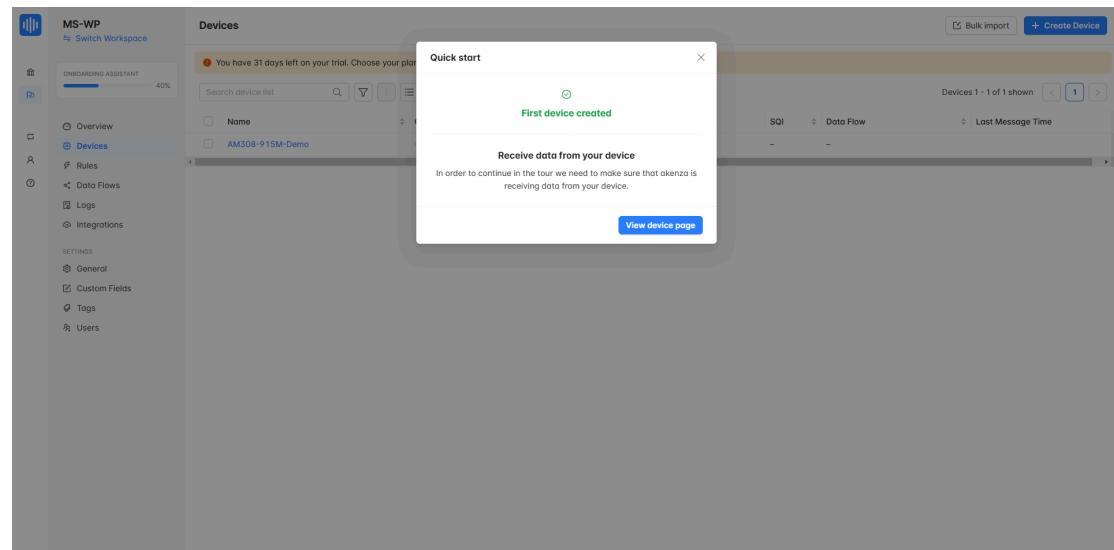


需要说明的是，由于我们暂时还没有创建过任何 Data Flow，所以这里的 Data Processing 需要选择“Connectivity mgmt only”，Integration 下拉选择我们刚创建好的“MS-Network”即可，其余参数保持默认。

点击“Next”后你会看到下面的截图，根据提示填写 AM308 的 LoRa 相关参数就可以了：



创建完毕后，你会看到提示如下：

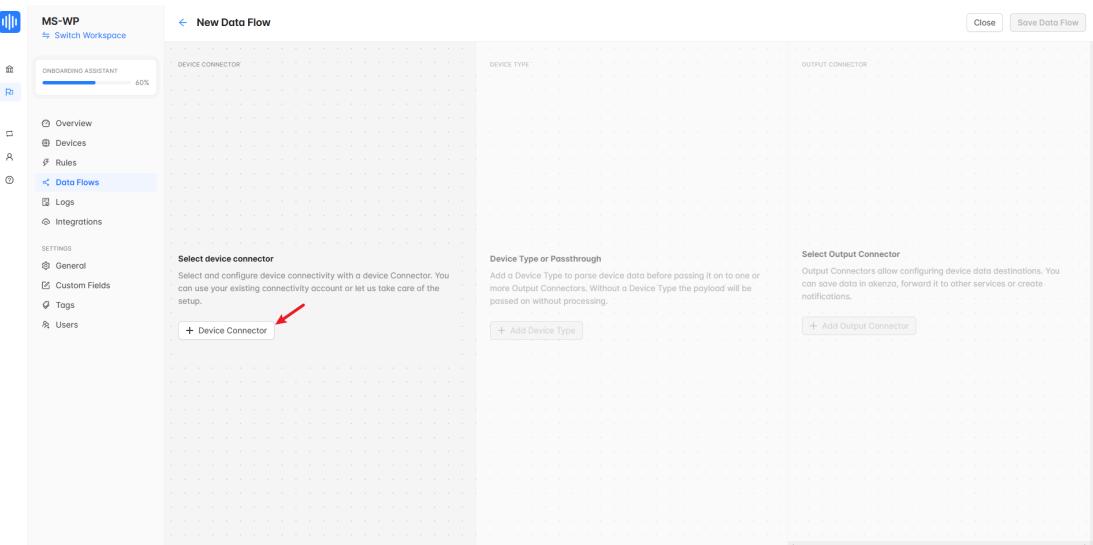
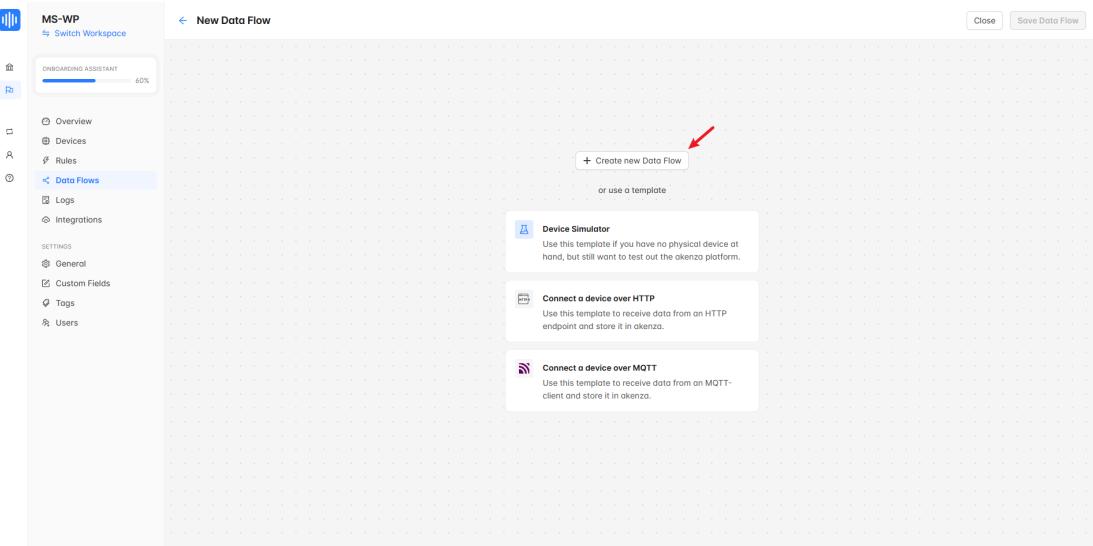
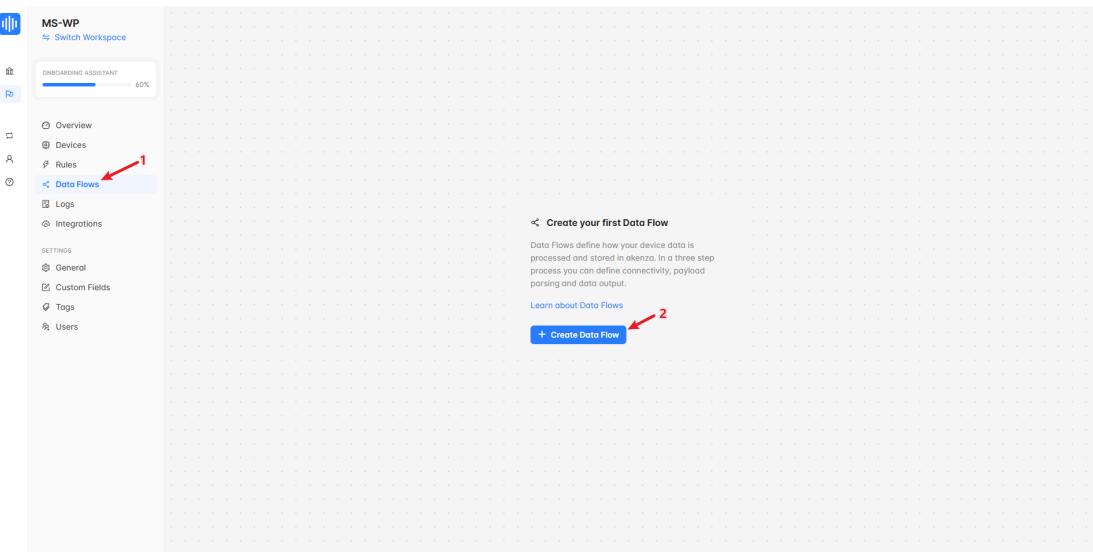


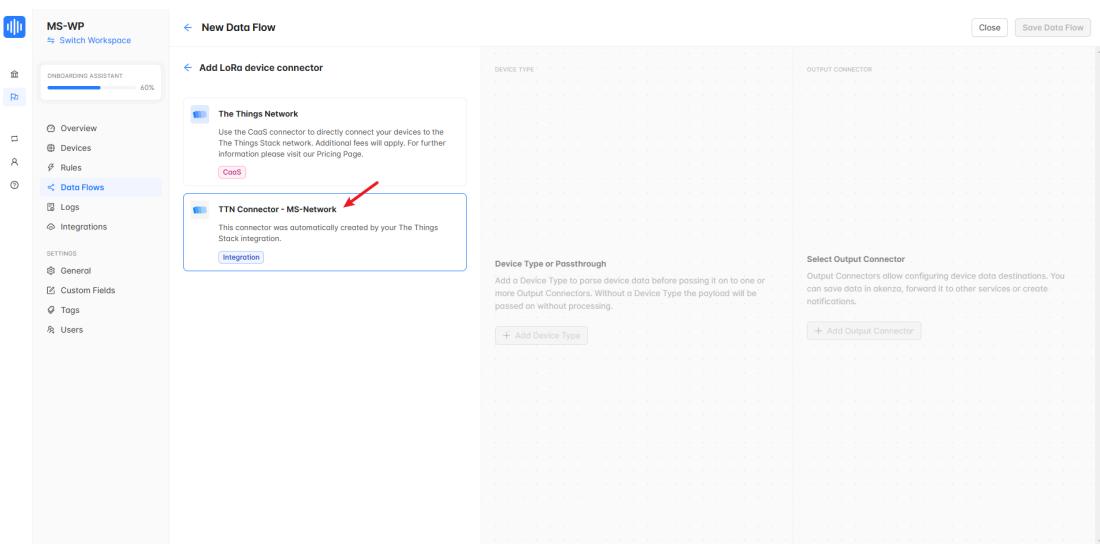
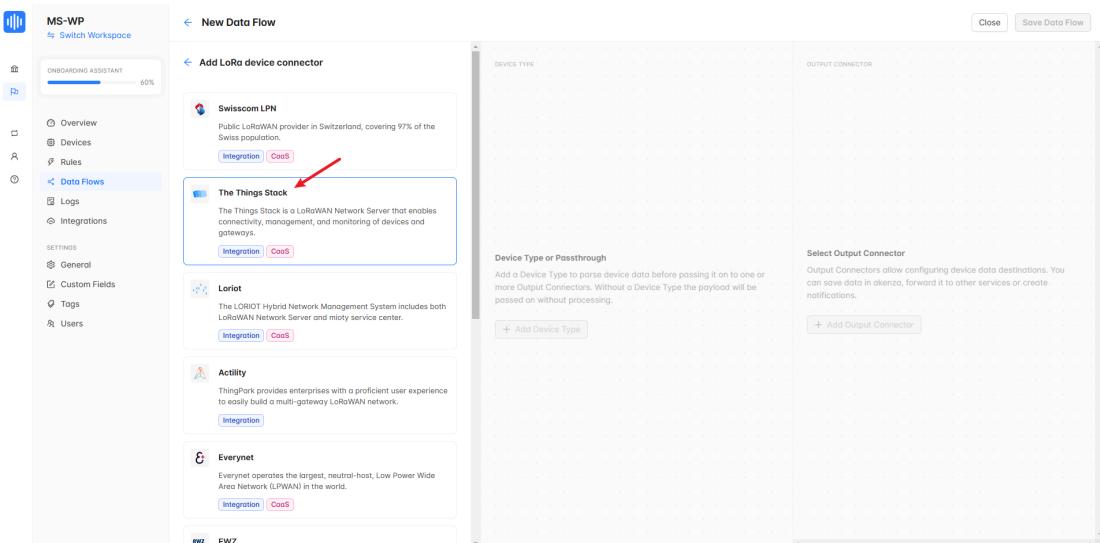
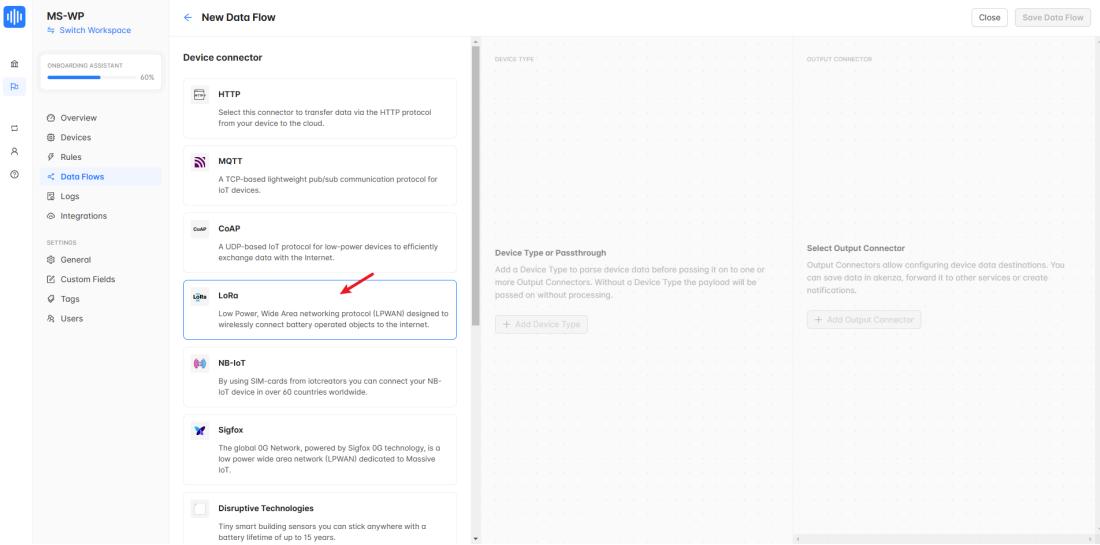
点击进去就可以看到当前 sensor 的状态：

我们可以看到，添加进来的 AM308-915M-Demo 设备已经上线，并且数据链路已经建立完毕，但是平台只知道我们注册了 LoRaWAN 的设备，但是还没办法正常 decode 解析，接下来需要配置 Data Flows 进行配置。

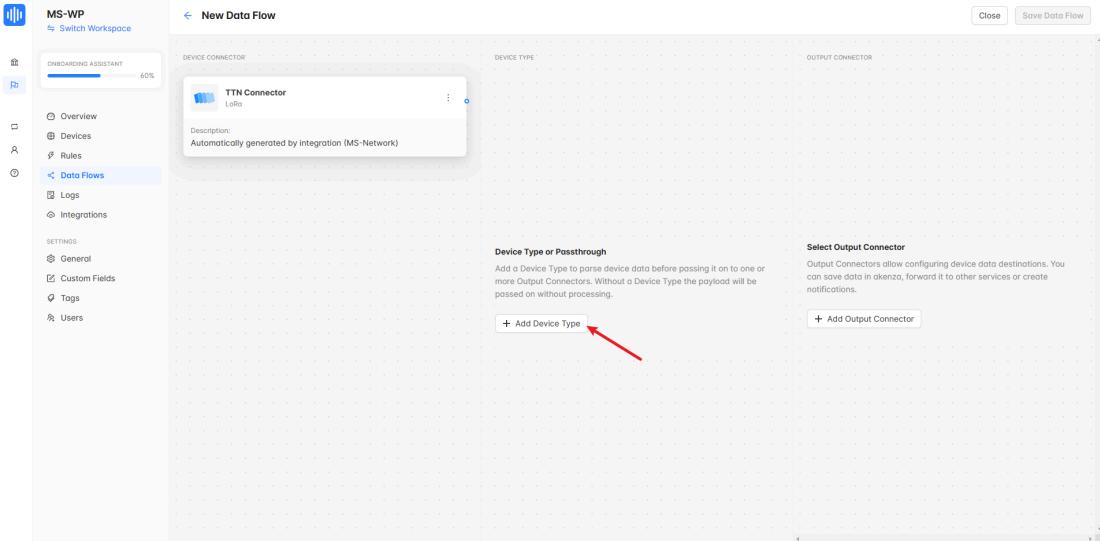
## 10. 配置 Data Flow

如图进行操作：

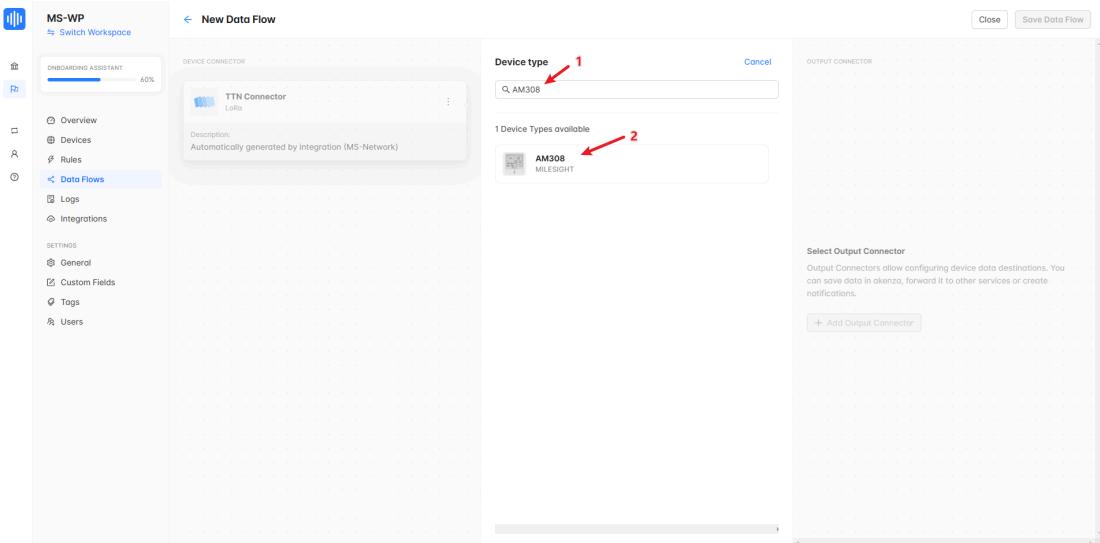




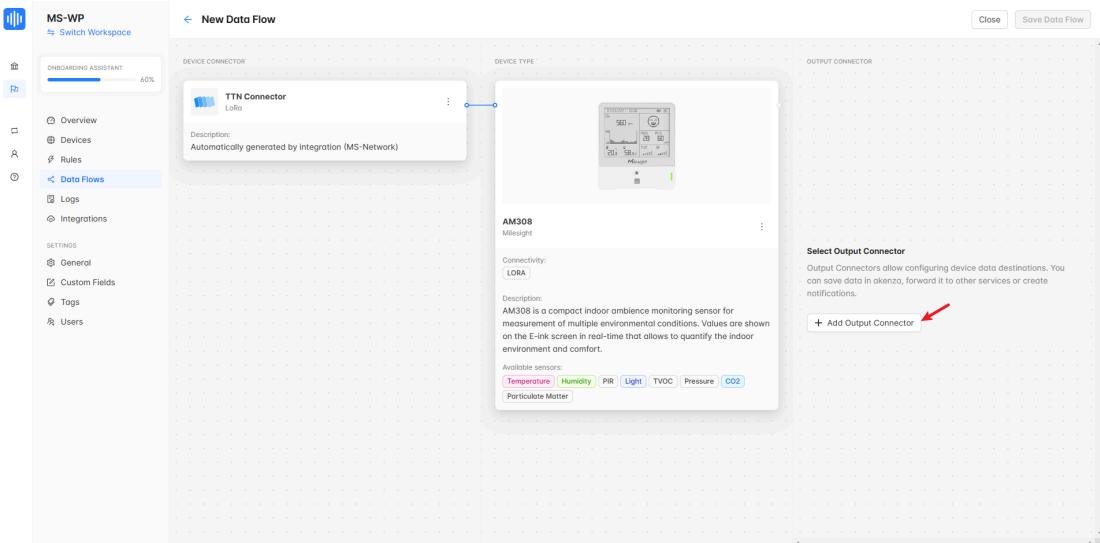
然后配置 Device Type , 如图进行操作:



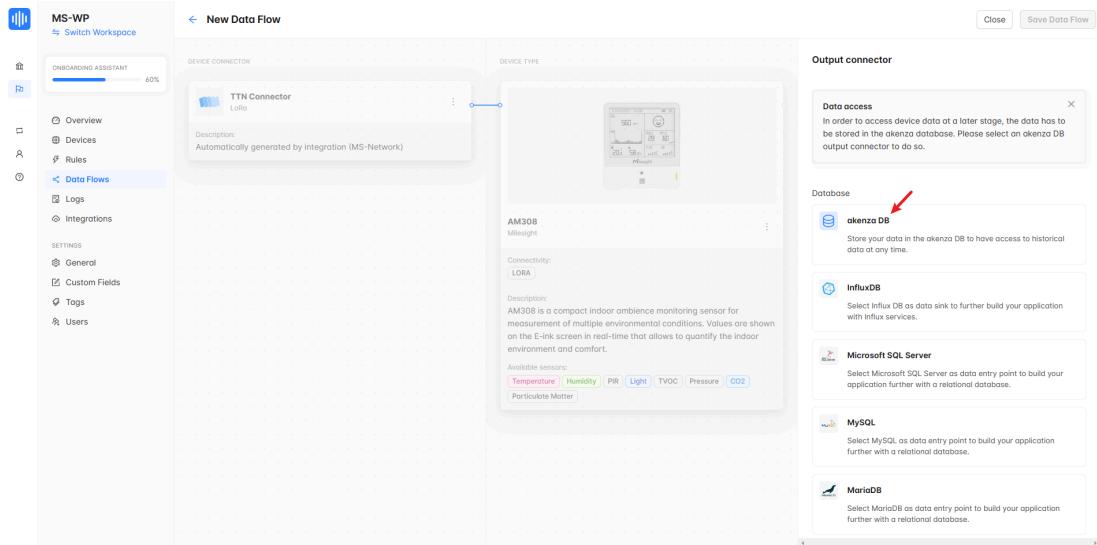
在弹出的界面中输入 AM308，然后选中即可，参考下面的截图：



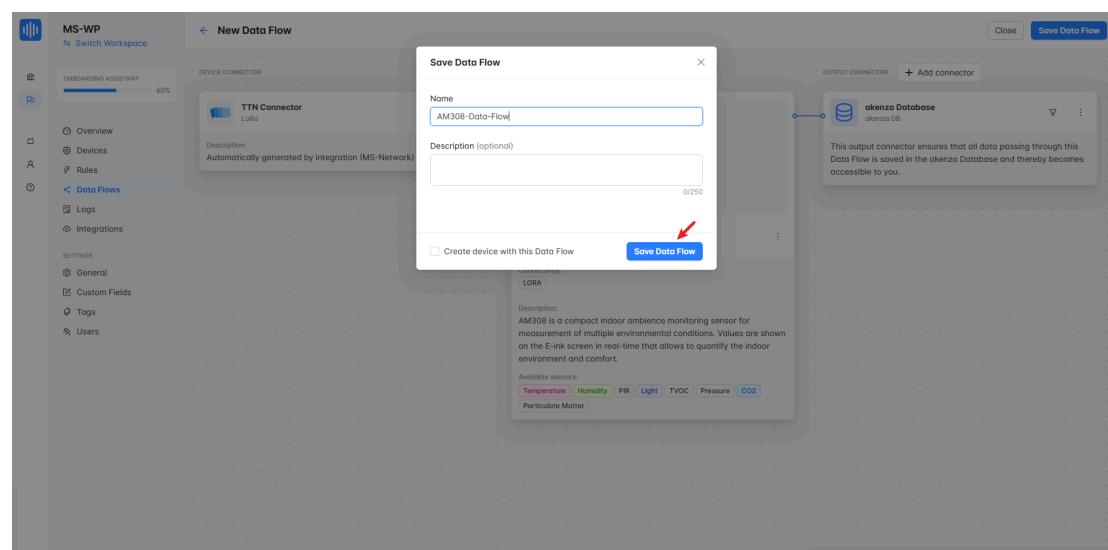
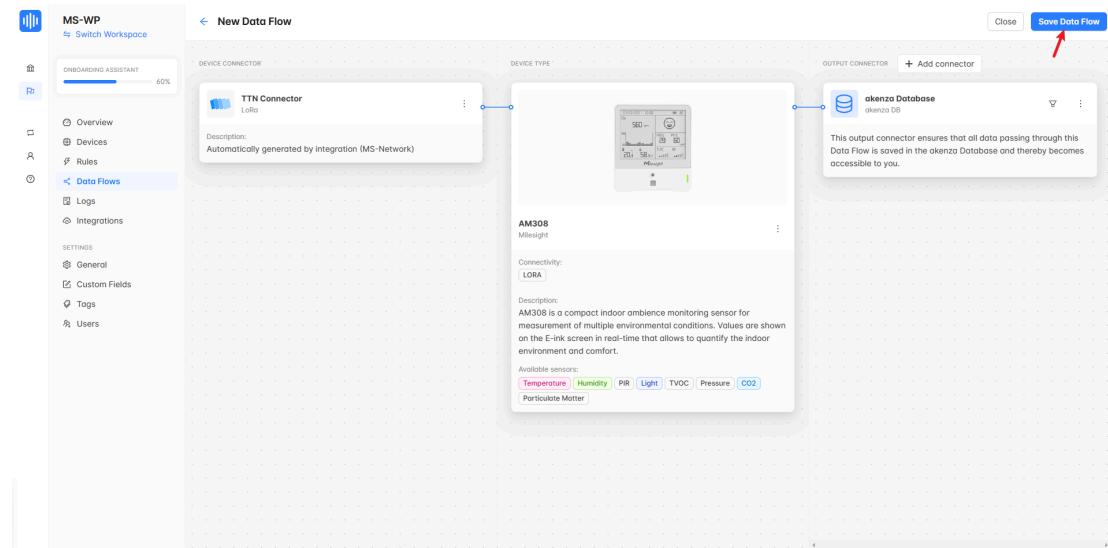
接下来继续配置 Output Connector，如图进行操作即可：



这里我们选择 “akenza DB”作为数据存储：



至此，我们针对 AM308 的 data flow 创建完毕，点击 “Save Data Flow”即可：



接下来我们还需要回到 Devices 菜单，把我们的 AM308-915M-Demo 关联进来，参考下面的截图操作即可：

The image contains two screenshots of the Microsoft Workbench (MS-WP) interface, illustrating the steps to associate a device with a Data Flow.

**Screenshot 1: Devices List**

This screenshot shows the 'Devices' list page. A red arrow labeled '1' points to the 'Devices' menu item in the sidebar. Another red arrow labeled '2' points to the device entry 'AM308-915M-Demo' in the main list, which is highlighted with a blue border.

Name	CS	Device ID	Tags	SQL	Data Flow	Last Message Time
AM308-915M-Demo	*	24E124707E043923	Demo	SQL	-	3/11/25, 9:47 AM

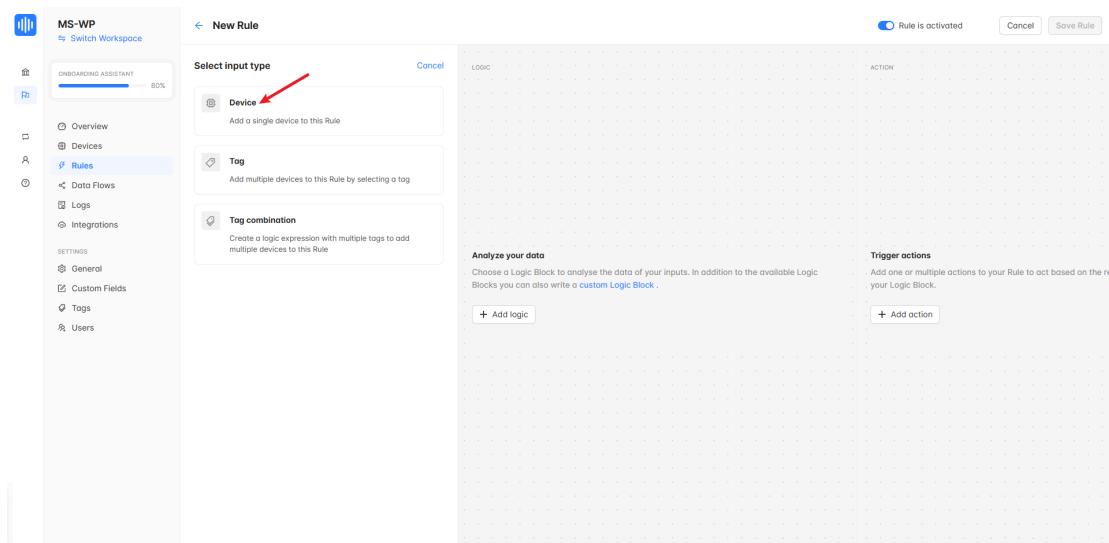
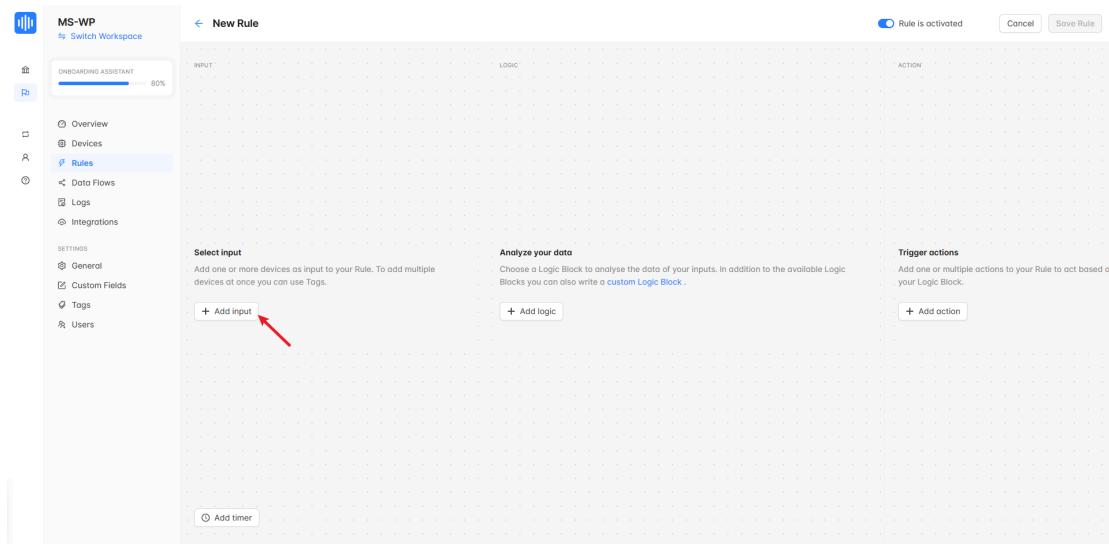
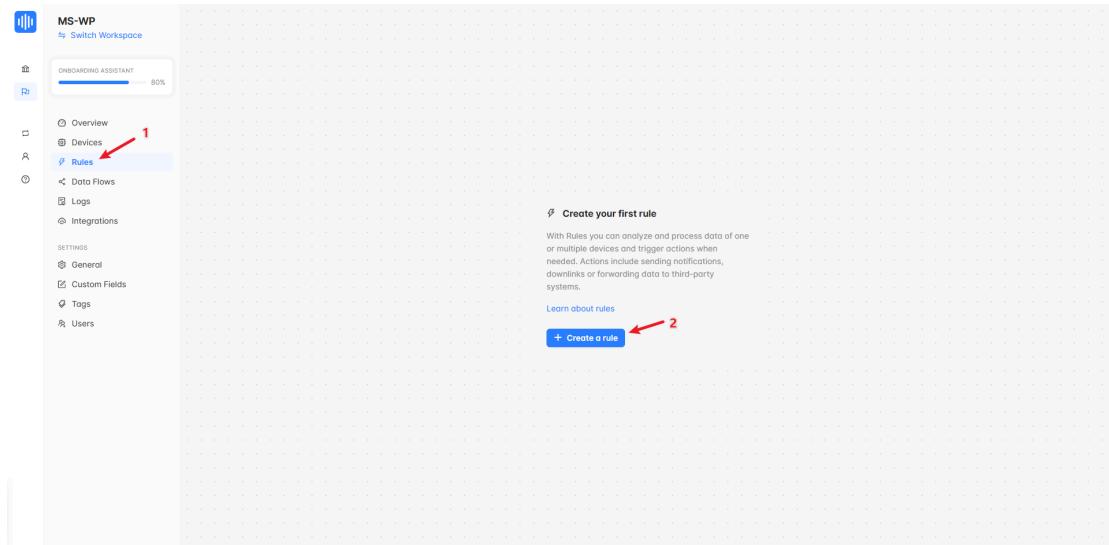
**Screenshot 2: Device Details**

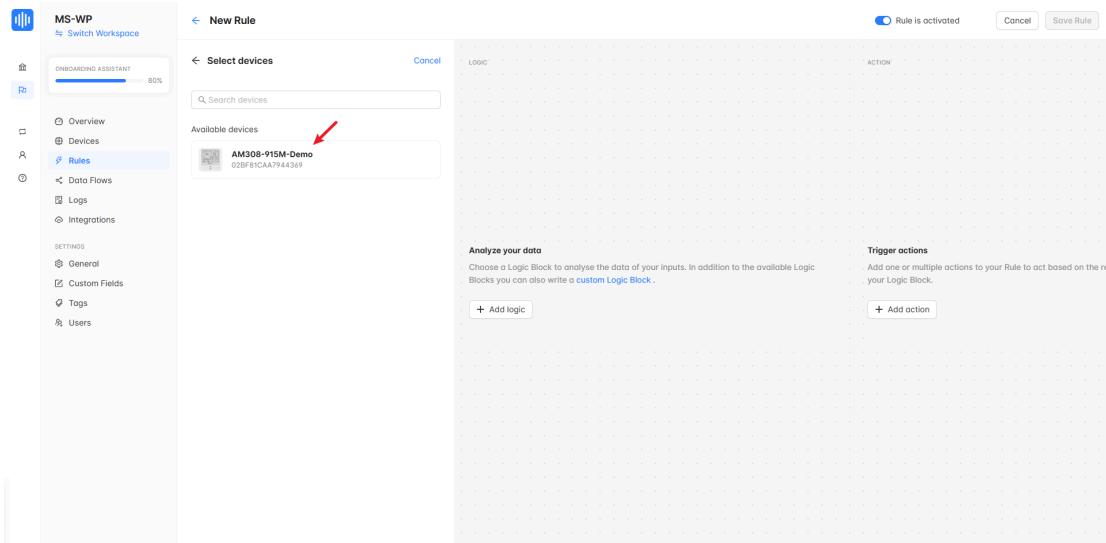
This screenshot shows the 'Device details' page for the 'AM308-915M-Demo' device. A red arrow labeled '1' points to the 'To send/receive data assign a Data Flow' hint. A red arrow labeled '2' points to the 'Search Data Flows' input field, which contains the text 'AM308-Data-Flow'. The input field has a dropdown arrow icon indicating a list of results.

至此，我们的 AM308-915M-Demo 的设备可以根据配置的 Data Flow 进行正常解析了，接下来我们配置一个简单的 Rule 检查一下结果。

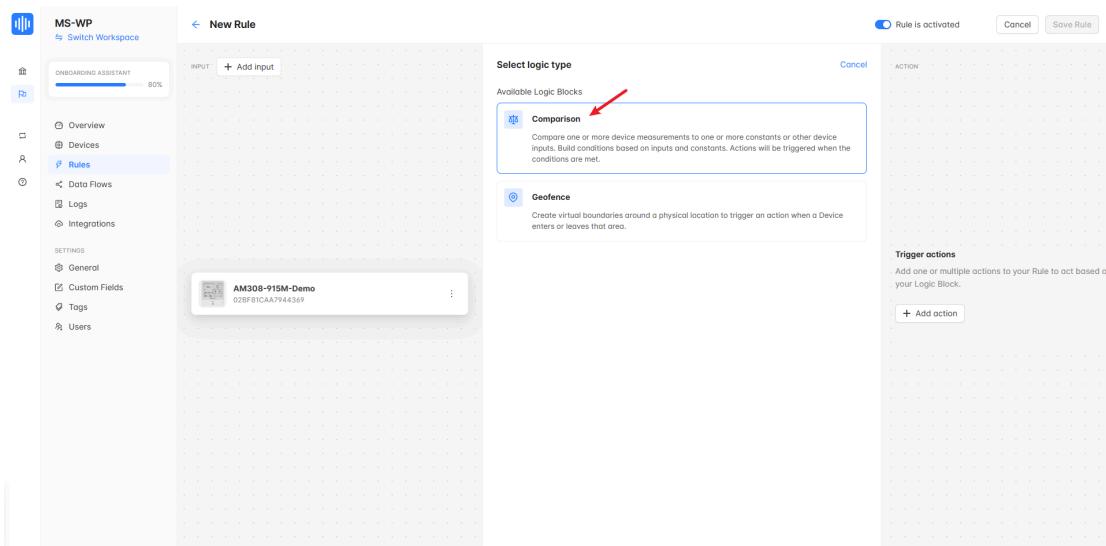
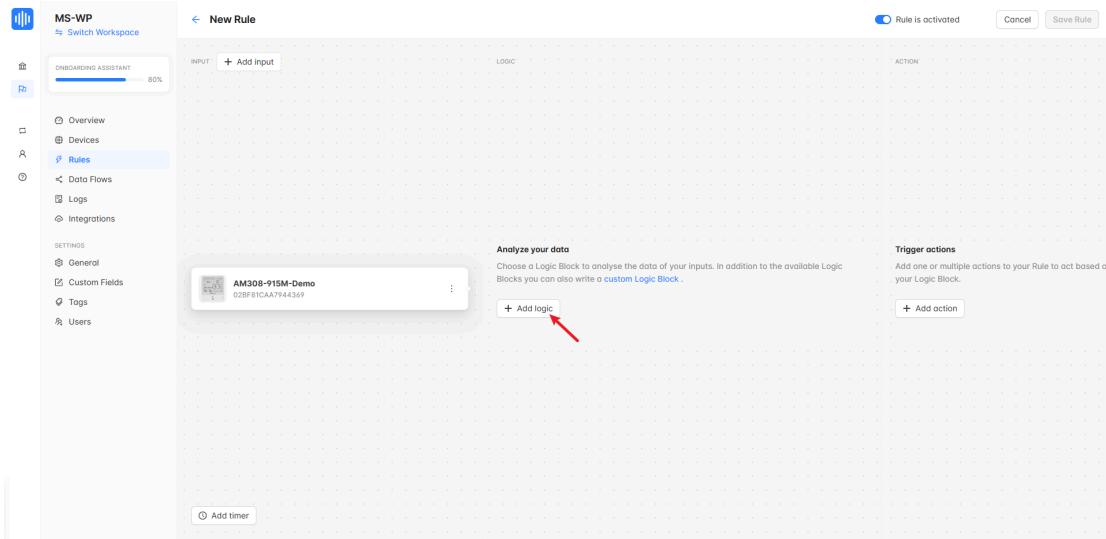
## 11. 配置 Rule 示例

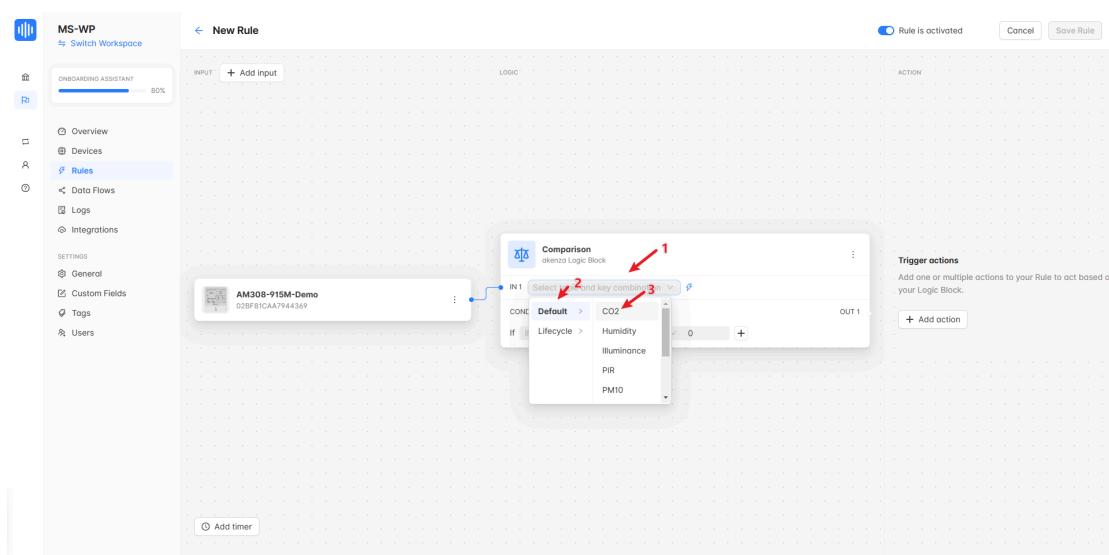
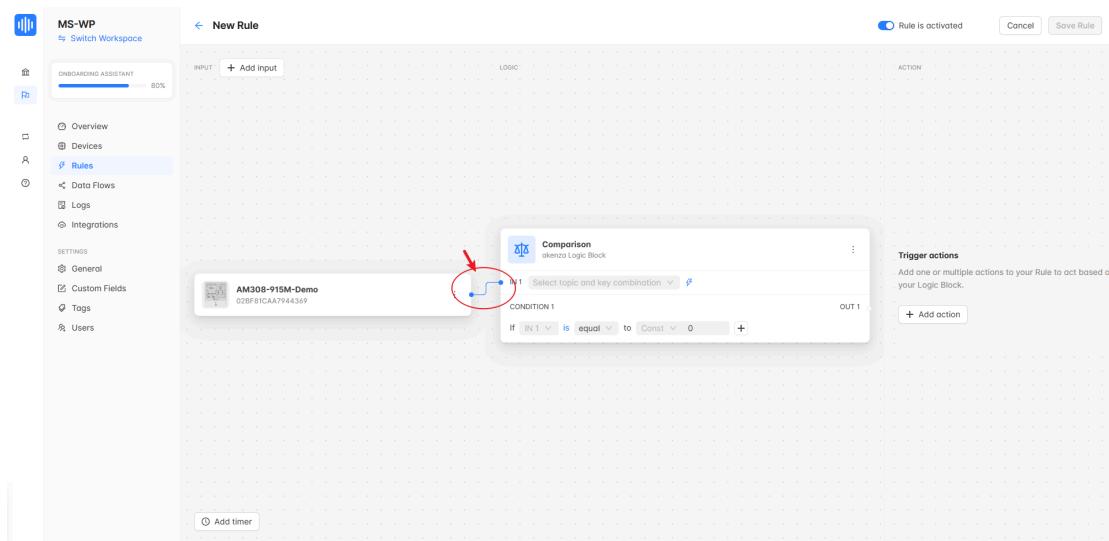
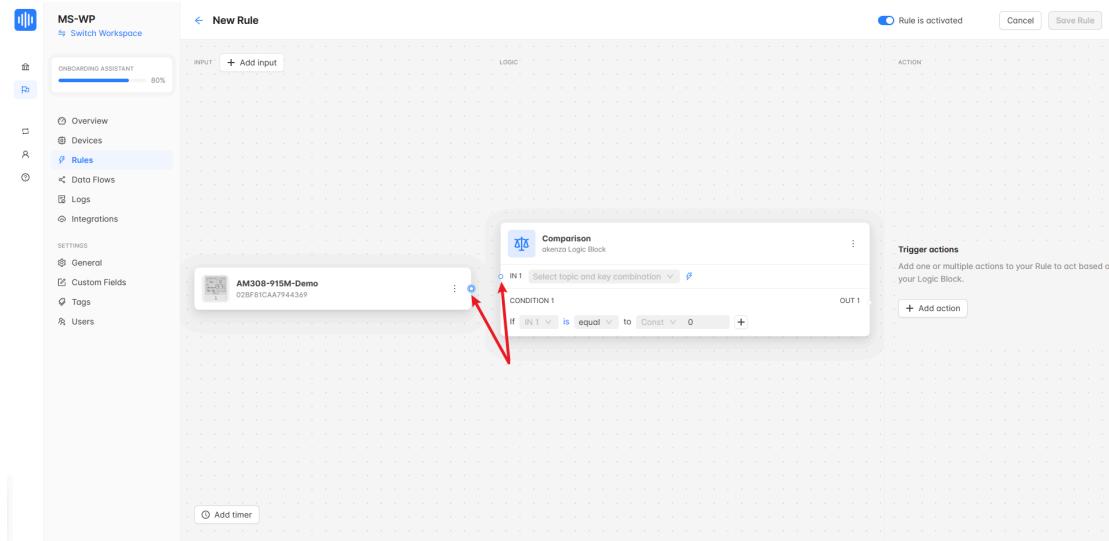
如图进行操作：





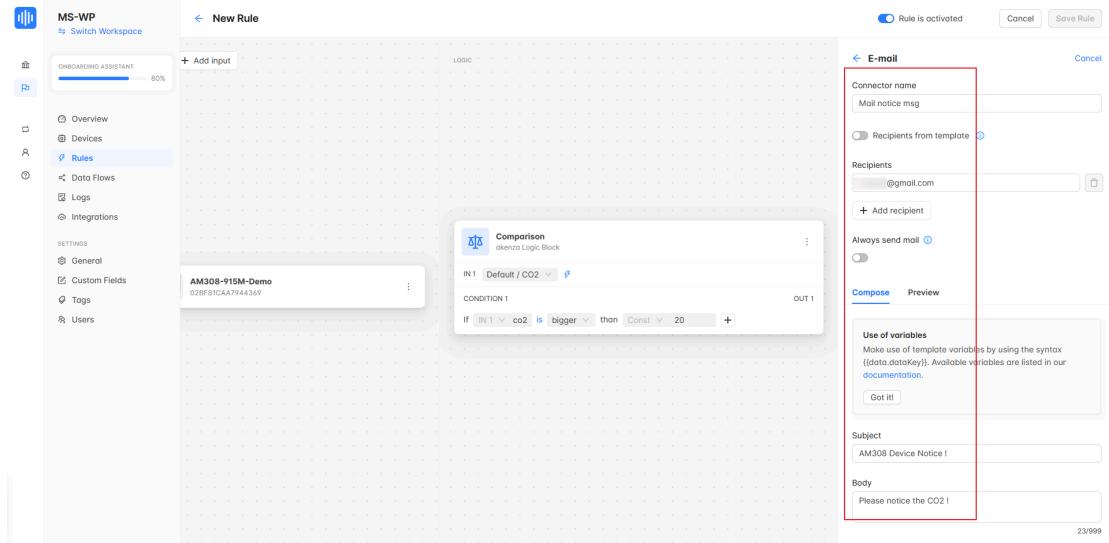
接下来配置 Logic 规则，这里我们以 AM308 的 CO<sub>2</sub> 数据作为阈值判断，然后触发邮件通知，参考下面的截图操作即可：



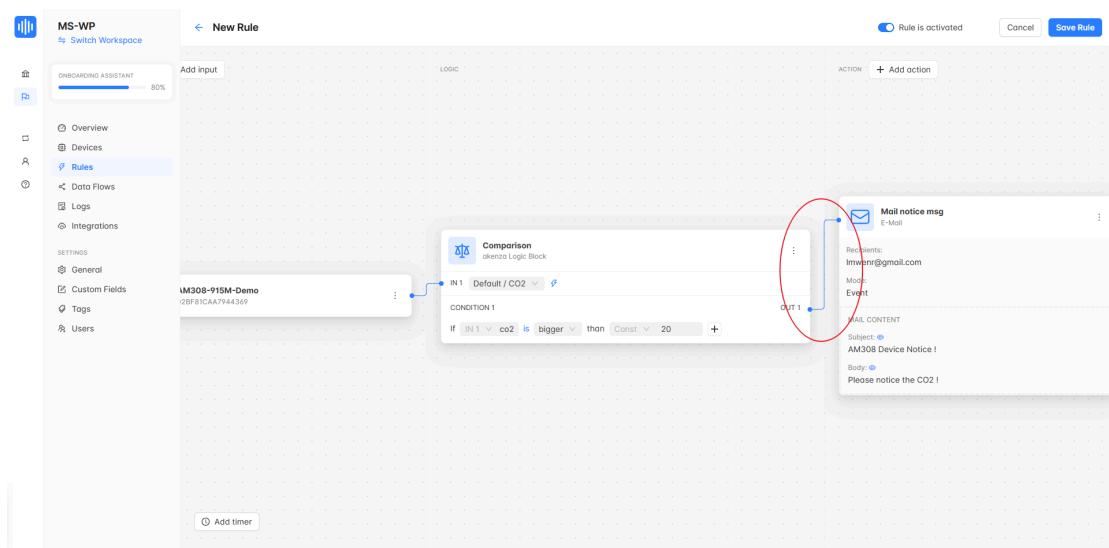


接下来配置 Action , 如图进行配置即可：

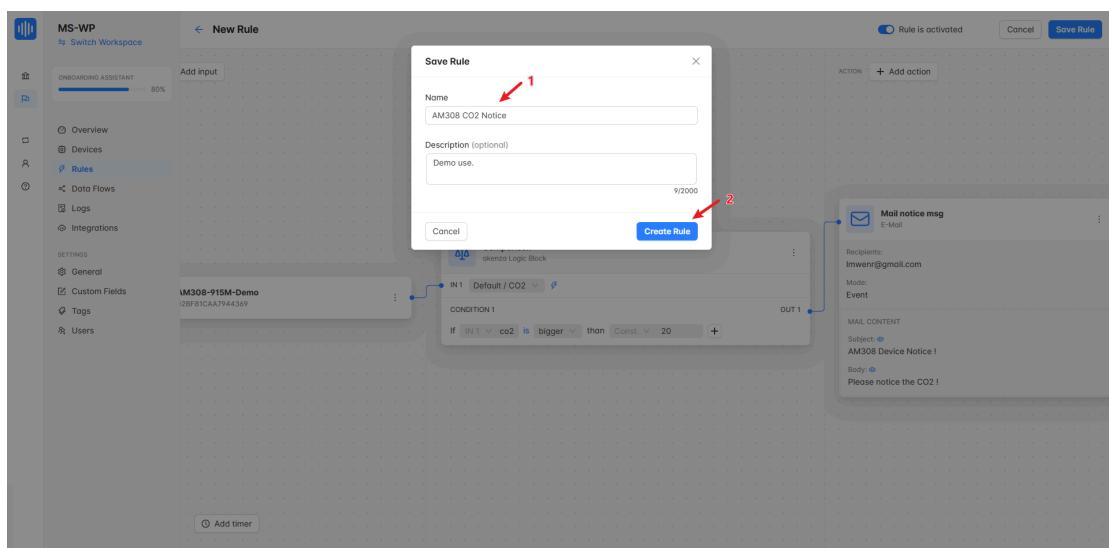
根据提示填写即可：



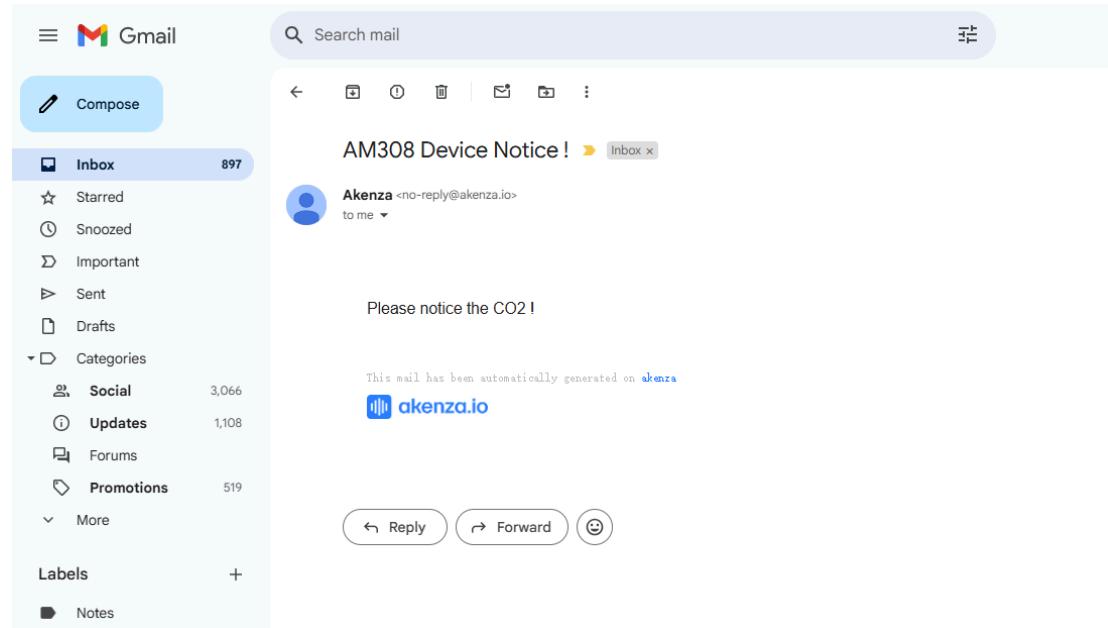
配置完毕后，绘制好连接线，效果如下：



所有配置完毕后，保存即可立即生效：



稍等片刻，我们会收到邮件通知，如下：



至此，完整对接 Akenza 的平台流程全部介绍完毕。

-END-