



# 如何将 Milesight 的网关和设备集成到 Zoho IoT 平台



Version Change Log			
Version	Revision Date	Revision Details	Revised By
V1.0	20250320	Initial	Lockon



# 前言

Zoho IoT 是 Zoho 公司推出的物联网解决方案，旨在帮助企业管理和监控 IoT 设备，实现数据采集、远程控制和自动化运维。该平台支持多种协议，提供可视化仪表盘、规则引擎和 API 接口，适用于智慧工业、智能建筑和远程资产管理等场景。Zoho 作为全球知名的软件企业，其 IoT 解决方案与 Zoho 生态系统无缝集成，助力企业提升运营效率和数据驱动决策能力。

本文主要介绍如何使用 UG65 网关对接 Zoho IoT 平台（借助第三方 LNS，也就是 TTN 平台），并且在 Zoho IoT 上面添加 AM308、AM319 设备作为示例的完整操作过程。

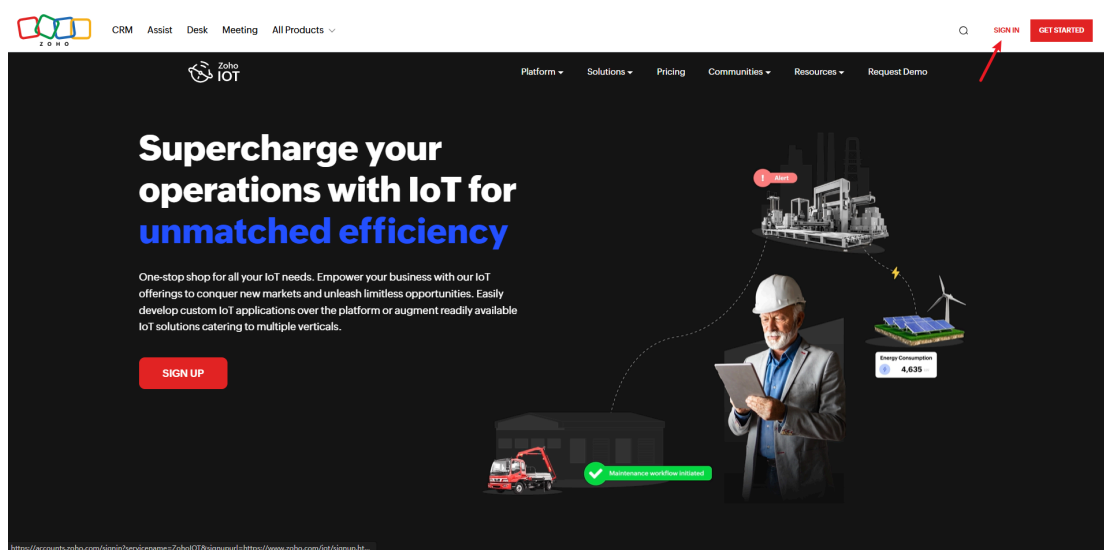
## 1. 前置条件

- 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：AM319、AM308，固件为 v1.6
- 本文演示用到的频段：US915
- 网关已经接入互联网


特别提醒：读者可以根据实际情况使用其他类型的 LoRaWAN 设备，本文内容提及到的 AM 设备仅作为演示使用，并不是说明其他类型的 LoRaWAN 不支持，请读者知悉

## 2. 注册 Zoho IoT 账号

访问 <https://www.zoho.com/iot/>，点击右上角“SIGN IN”即可：



在跳转的页面中根据实际情况编写基本信息即可：



Have a Zoho Account? [SIGN IN](#)

**Your one stop shop for all things connected.**

- Manage scaling IoT devices easily
- Build superlative apps with developer tools
- On time alerts on real-time anomalies
- Visualize data to actualize decision-making
- Unify your favorite apps from silos to synergy

**Zoho IOT**

Full Name \*  
lockon




Email \*  
[redacted]

Password \*  
[redacted]

Your data will be stored in the US data center.

☒ I agree to the [Terms of Service](#) and [Privacy Policy](#).

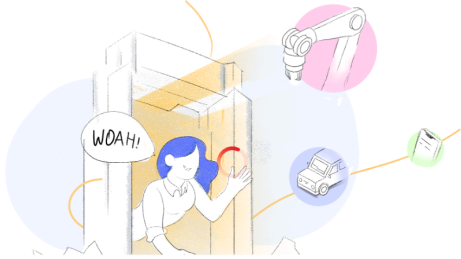
**SIGN UP FOR FREE**

or sign in using   

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### 3. 首次登陆

首次登陆后，平台会引导你创建第一个 Portal，这里我以“Milesight”为例进行填写，读者可以根据自己实际情况填写：



Hi there, lockon !

Create your portal to start building the **solution of tomorrow!**

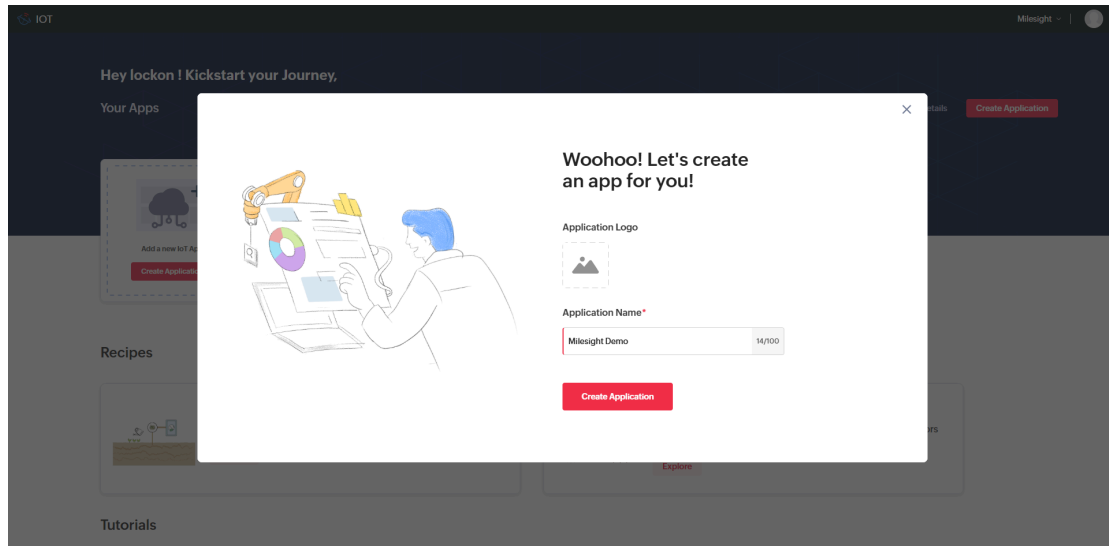
Portal Name \*   
Milesight 9/50

**Create Portal**

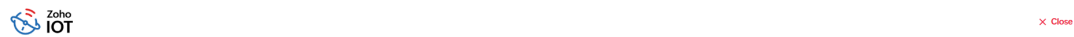
By clicking create portal, you agree to our [Terms of Services](#) and [Privacy Policy](#).

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接下来会引导你创建第一个 Application，这里我以“Milesight Demo”作为示例进行填写：



由于我们是 Free 账户，所以有 30 天的免费试用期，到期后可根据实际情况修改或者续费试用：



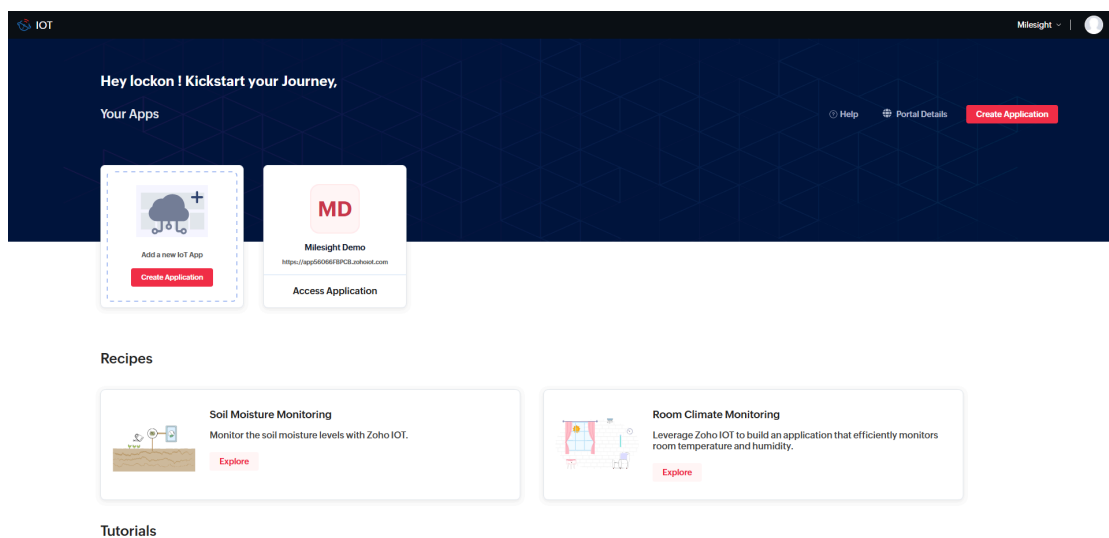
Application successfully created!  
Your 30-day free **trial** starts now!

Explore Zoho IoT to create intelligent and connected apps

[Get Started](#)

Want to know more ?

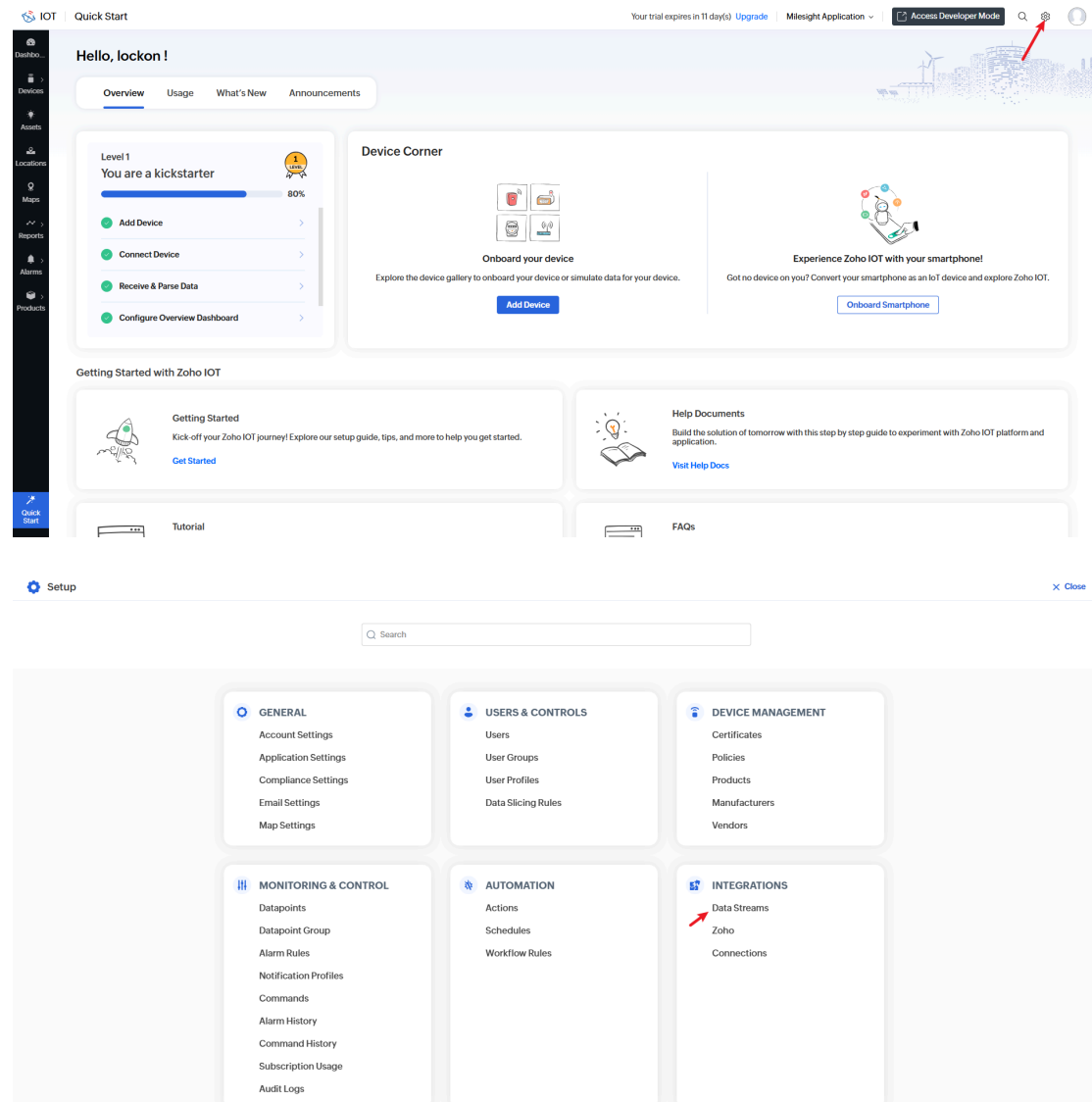
[View resources](#) | [Write to us](#)

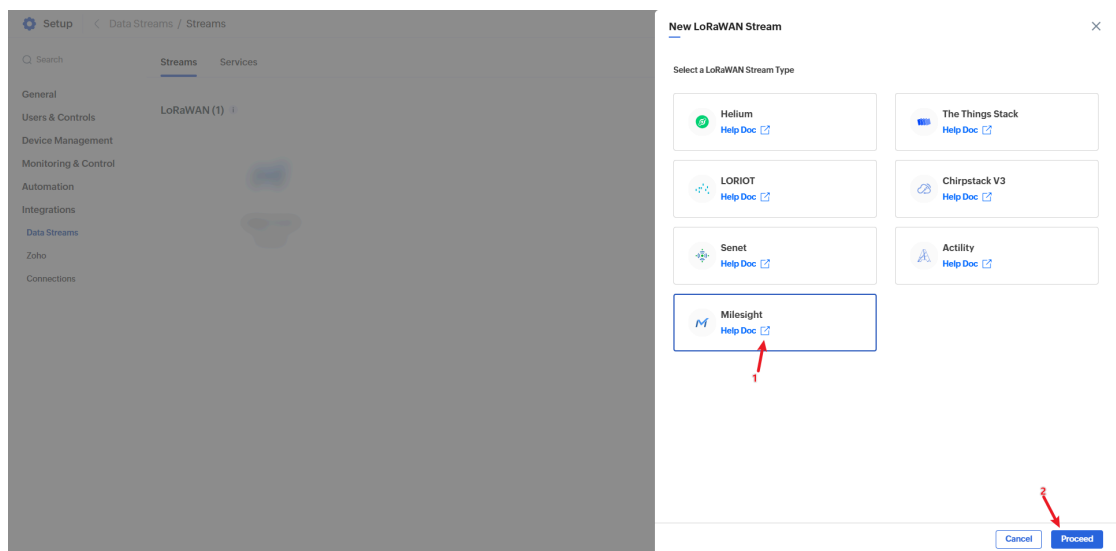
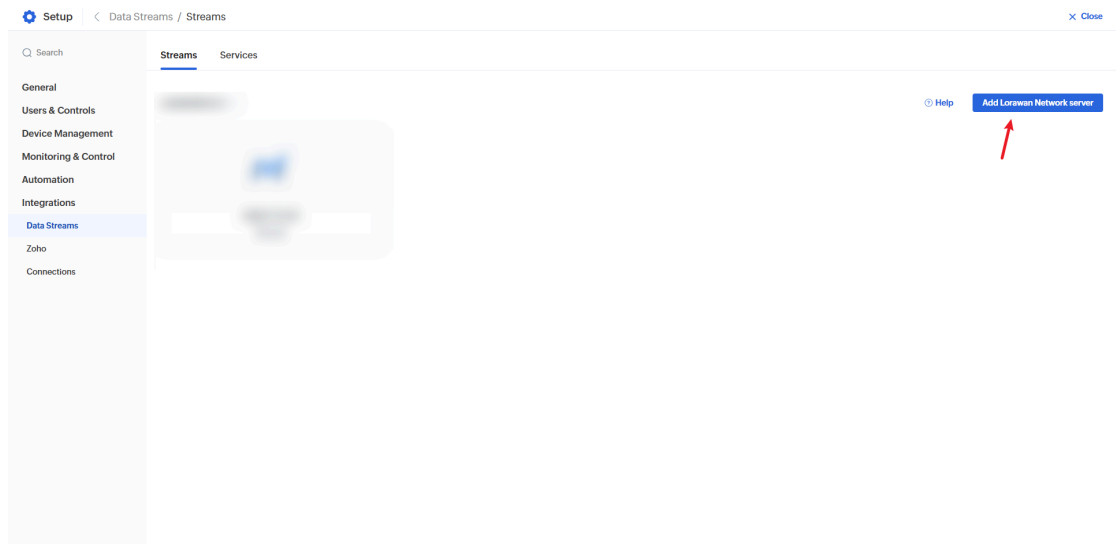


至此，我们的第一个 Application 创建完毕，接下来的所有操作都是在这个 Application 里面进行配置。

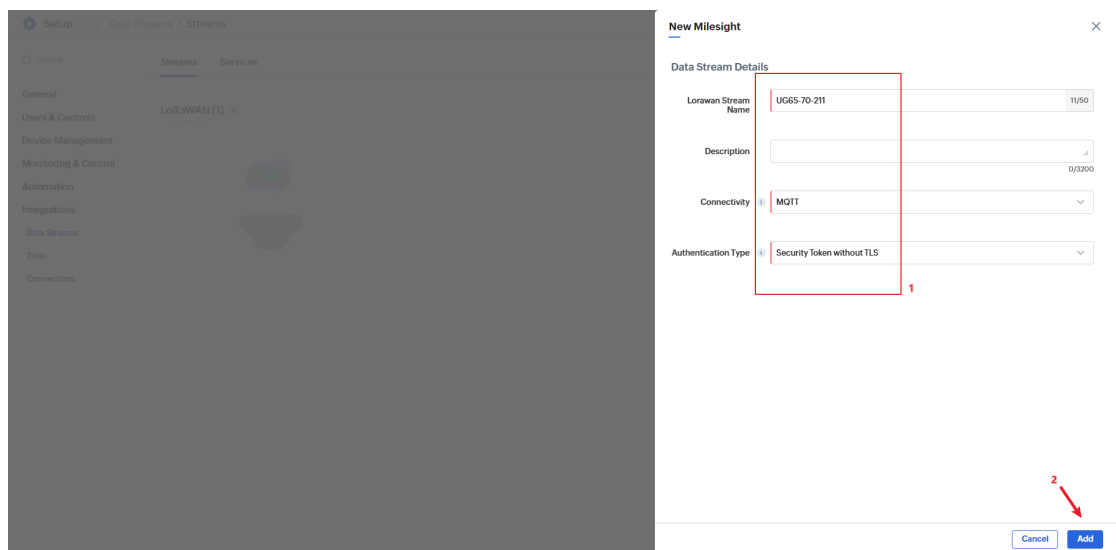
## 4. 创建 Data Streams

如图进行操作：





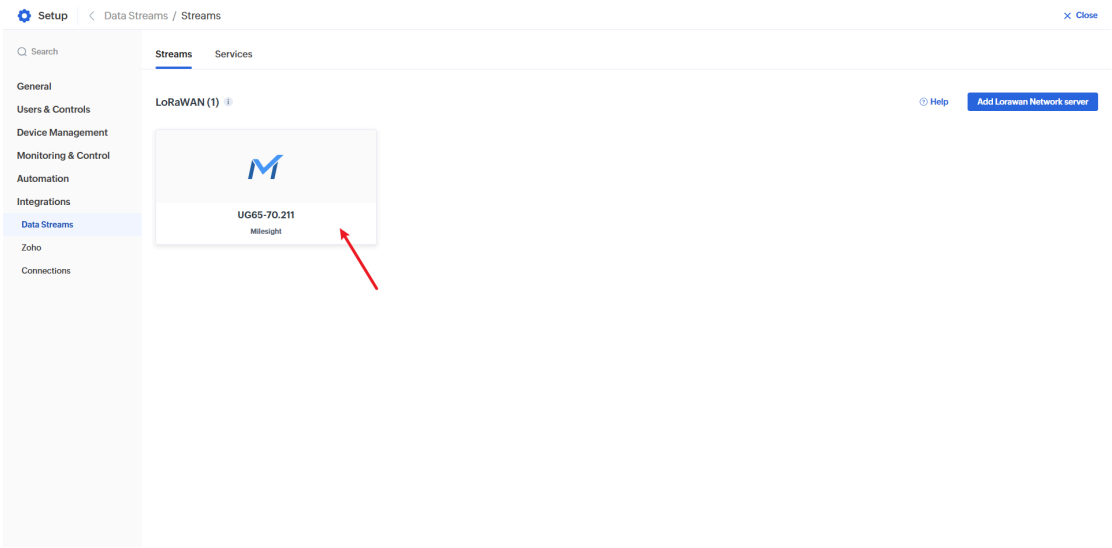
参考下面的信息配置即可：



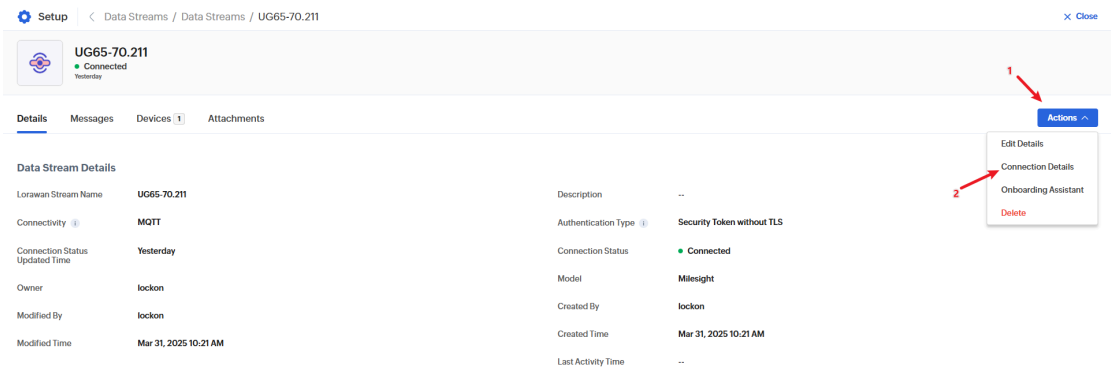
注意：这里为了方便演示，没有开启安全认证，所以读者需要根据自己的实际需要选择适

合自己的配置参数。

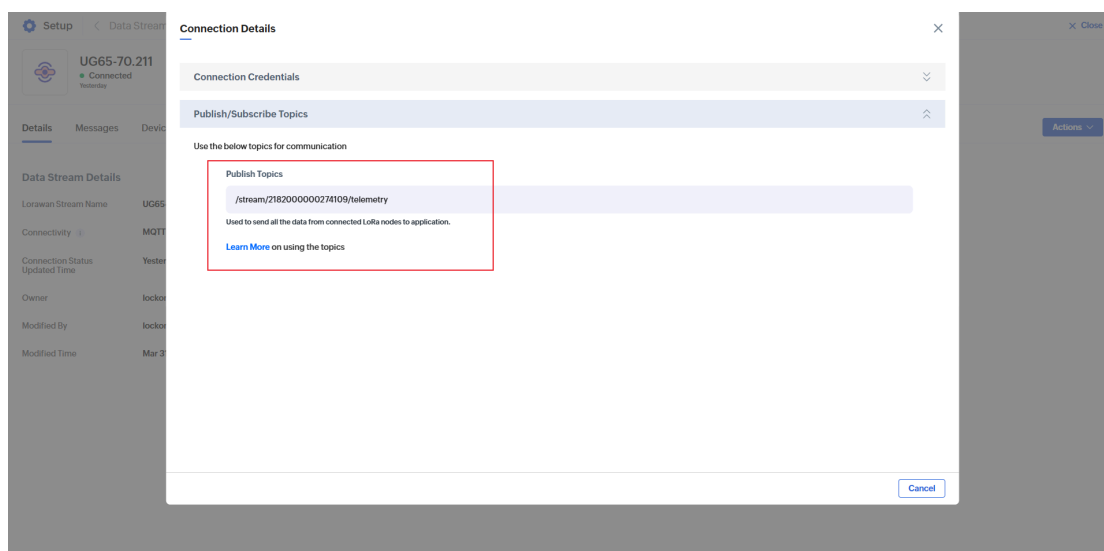
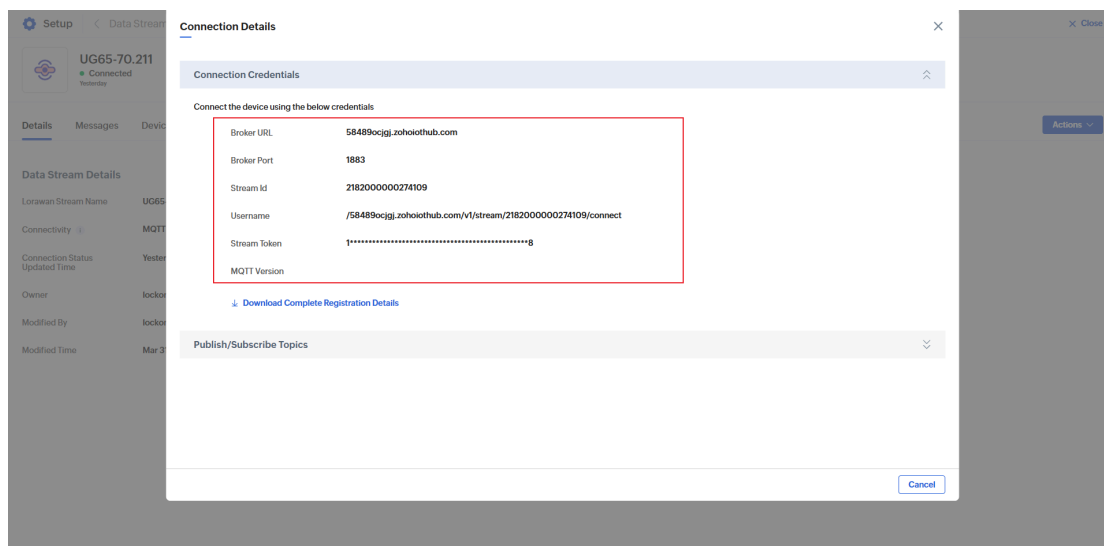
添加完毕后，如下图所示：



点击之后，参考下面的截图操作，即可获取到平台的 MQTT 的连接信息：







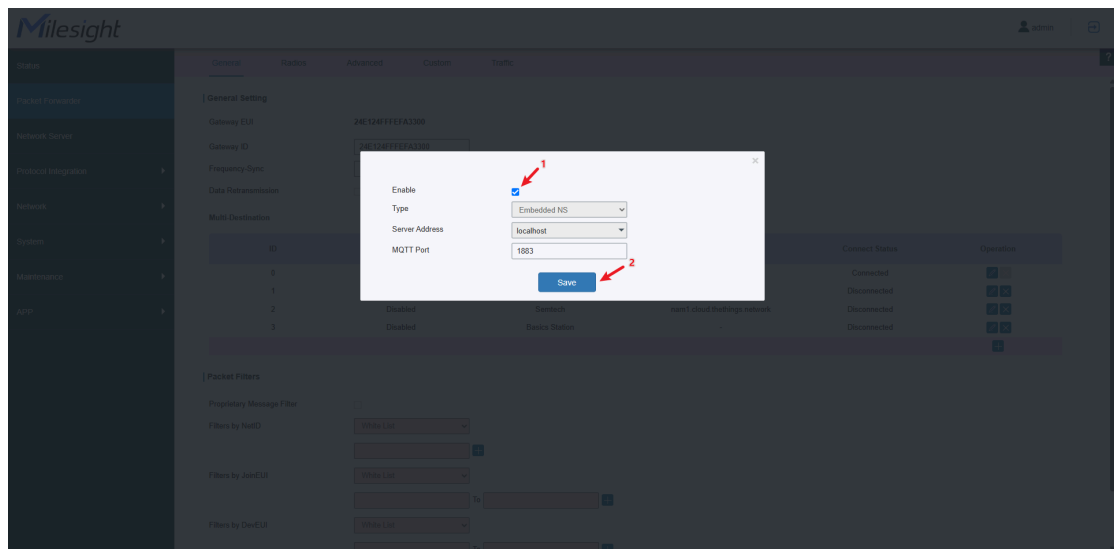
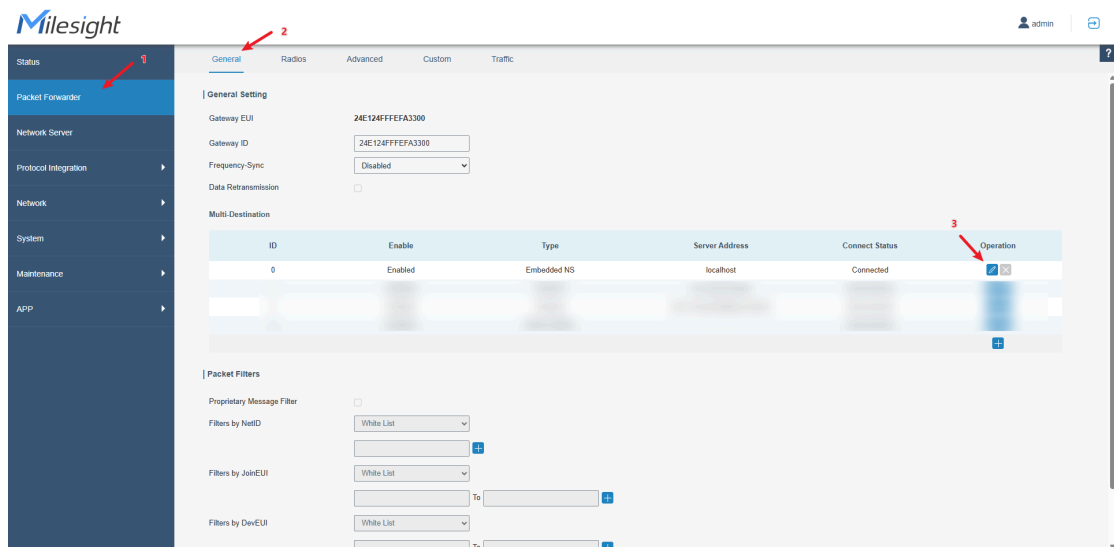
这里的信息要单独记录一下，稍后网关上面配置的时候会用到。

## 5. 配置网关

### 5.1. 开启内置 NS

登录网关管理界面，参考下面的截图操作即可（如果已经开启，这步可以跳过）：

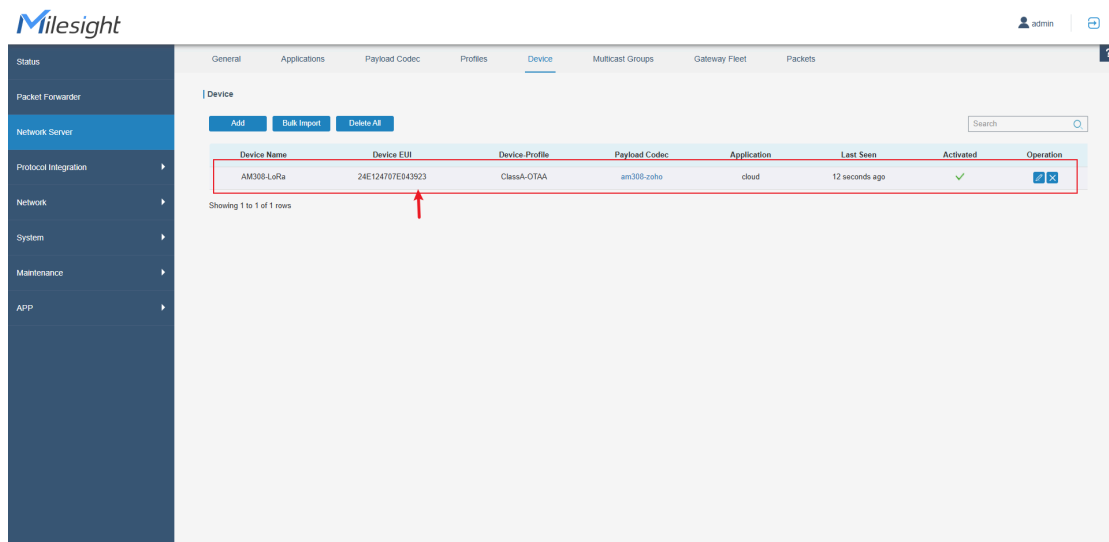




至此，网关内置 NS 开启完毕。

## 5.2. 添加 AM308 Device

参考 <[How to Connect LoRaWAN Nodes to Milesight Gateway](#)> 操作即可，添加完毕后的结果如下：

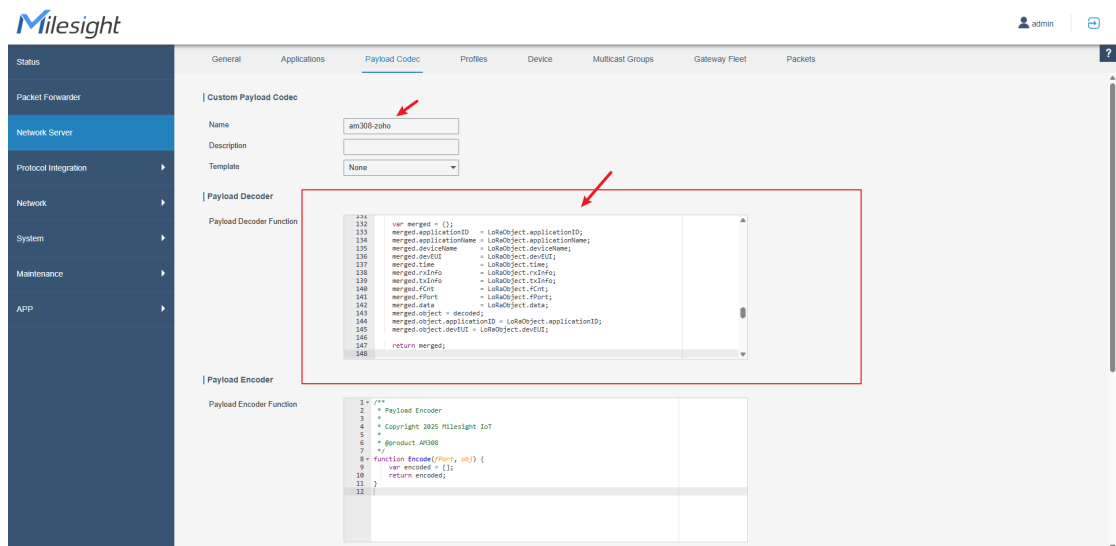


### 5.3. 配置 Decode 代码

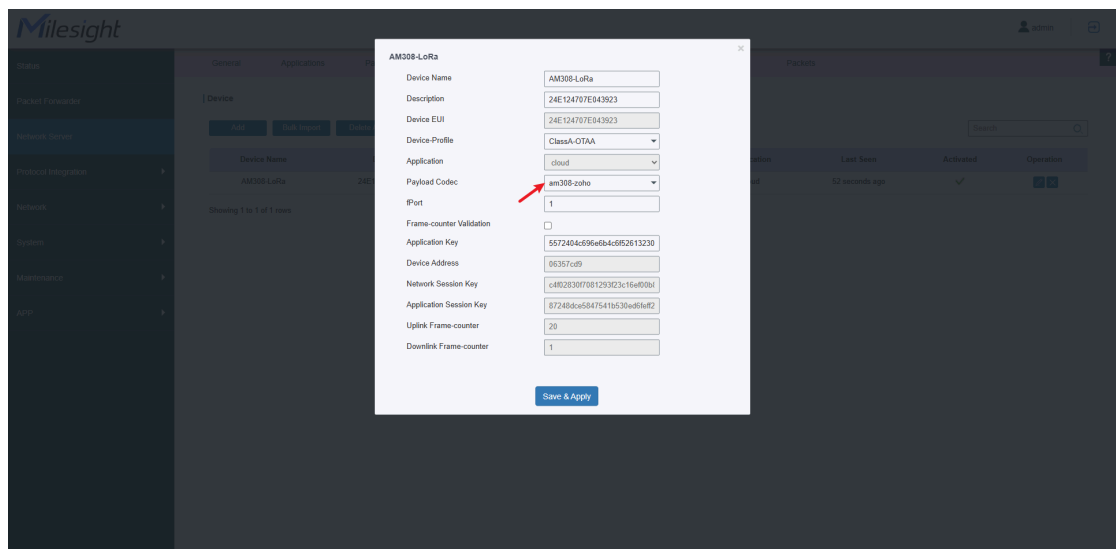
参考 <[How to Use Payload Codec on Milesight Gateway](#)> 操作就可以了，但是要注意，需要在原始的 Decode 代码基础上添加下面的内容：

```
var merged = {};
merged.applicationID = LoRaObject.applicationID;
merged.applicationName = LoRaObject.applicationName;
merged.deviceName = LoRaObject.deviceName;
merged.devEUI = LoRaObject.devEUI;
merged.time = LoRaObject.time;
merged.rxInfo = LoRaObject.rxInfo;
merged.txInfo = LoRaObject.txInfo;
merged.fCnt = LoRaObject.fCnt;
merged.fPort = LoRaObject.fPort;
merged.data = LoRaObject.data;
merged.object = decoded;
merged.object.applicationID = LoRaObject.applicationID;
merged.object.devEUI = LoRaObject.devEUI;
```

添加完毕后的结果如下：

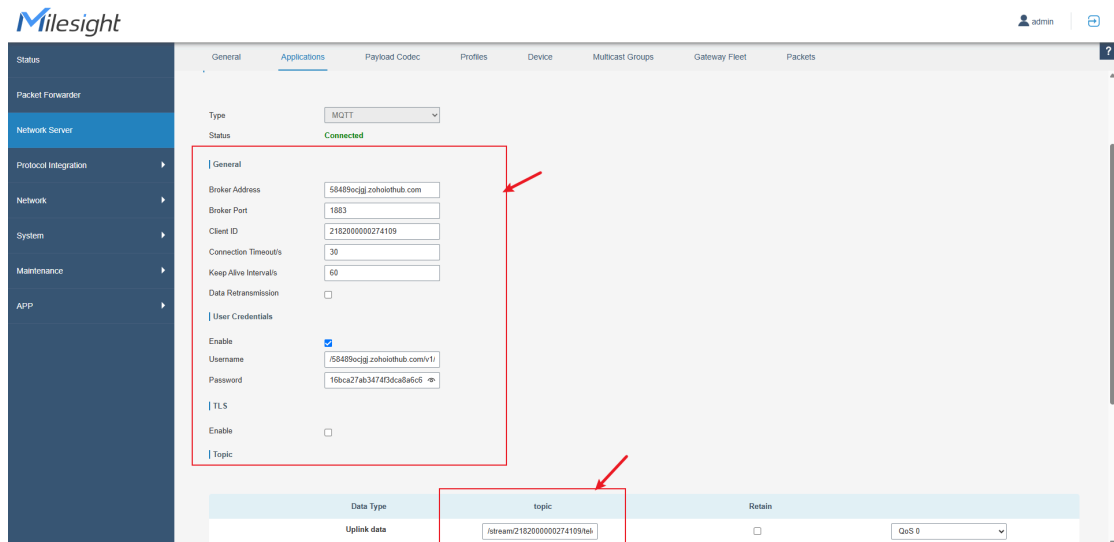


然后修改刚才我们添加的 AM308 的配置，参考下面的截图，修改关联 Decode 配置即可：



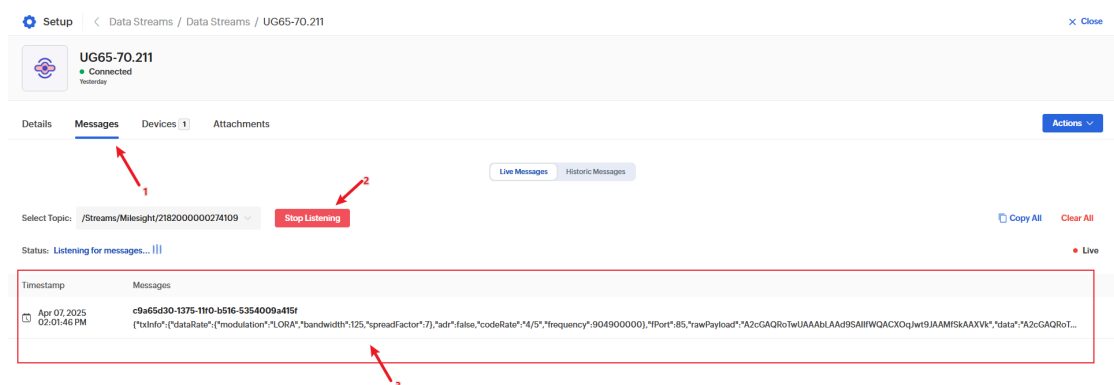
## 5.4. 配置 MQTT 参数

参考 <[How to Connect LoRaWAN Gateway to MQTT Broker](#)> 操作就可以了，配置完毕后的结果如下：



注意，这里的参数全部是从第 4 步获取来的。  
配置完成后，保存并稍等片刻，这边显示绿色的 "Connected" 则说明配置正确。

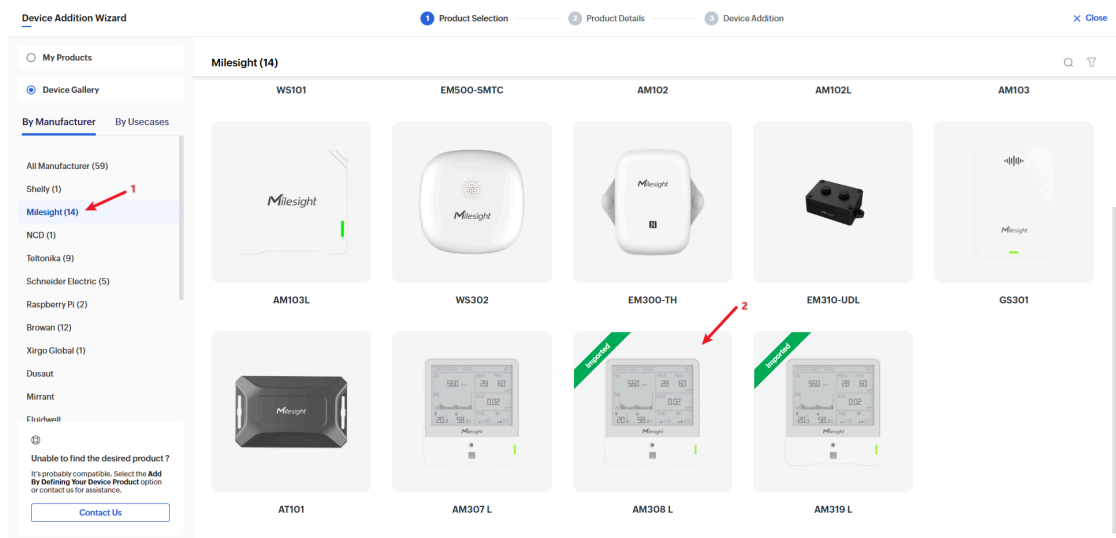
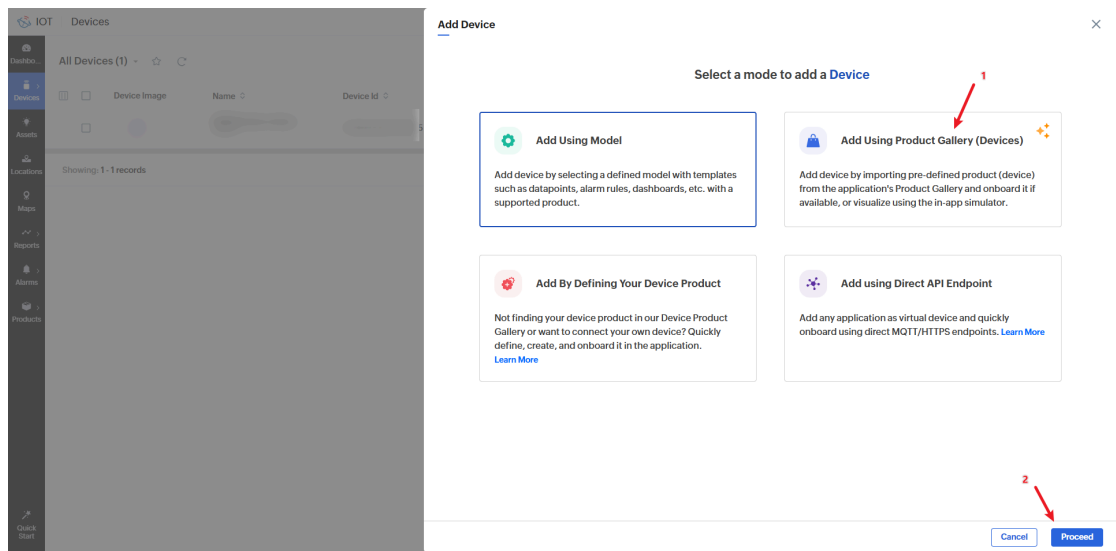
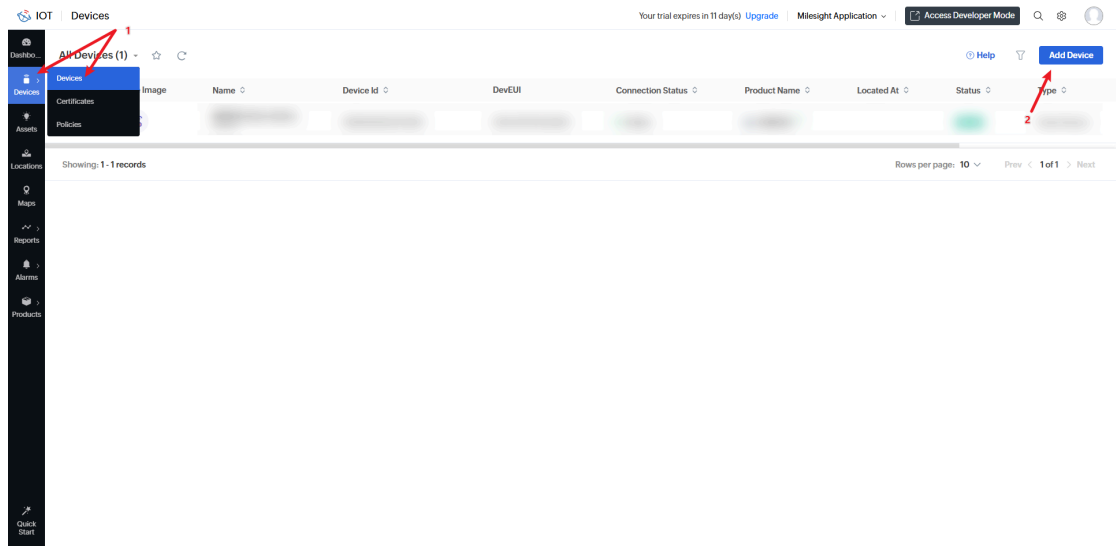
同时，回到 Zoho 的 添加 Data Streams 界面，参考下图操作，能够看到数据，则说明网关和平台的数据链路成功建立：



至此，网关的配置结束。


## 6. 添加 Device 到 Zoho

如图操作即可：



Device Addition Wizard

Product SelectionProduct DetailsDevice AdditionClose



Smart Sensor

Facing Difficulties?

Feel free to contact us and our team will help you through.

Contact Us

AM308 L

Tested and Verified

Milesight

Sensor TypeIAQ Sensor

DatapointsHumidity, CO2, Pressure, Light Level, Temperature, PM10, PM2.5, Battery %, RSSI, SNR, Pir Status, Buzzer Status, Buzzer State

DescriptionAM308 is a comprehensive IAQ sensor for detecting CO2 concentration, temperature, humidity, light, TVOC, barometric pressure, PM2.5, PM 10 and motion.

ConnectivityLoRaWAN via LoRaWAN Datastream

Device DetailsVisit Website


Use CaseSmart Home, Smart Building, Datacenter Monitoring, Indoor Air Quality Monitoring, Smart Office

Previous

Proceed

Device Addition Wizard

Product SelectionProduct DetailsDevice AdditionClose



AM308 L

Facing Difficulties?

Feel free to contact us and our team will help you through.

Contact Us

Model Type

Use Existing ModelCreate New Model

Model NameAM3085/50

Model Information

New datapoint introduced from the product to the model : 14 datapoints

More Details

NameAM308-demo-device17/50

Description0/200

TypeSmart Sensor


Device ConnectivityLoRaWAN via LoRaWAN Datastream

Previous

Proceed

Device Addition Wizard

Product SelectionProduct DetailsDevice AdditionClose



AM308 L

Facing Difficulties?

Feel free to contact us and our team will help you through.

Contact Us

NameAM308-demo-device17/50

Description0/200

TypeSmart Sensor

Device ConnectivityLoRaWAN via LoRaWAN Datastream

DevEUI24 E1 24 70 7E 04 39 238/8 Byte

LoRaWAN DatastreamUG65-70.211

Data Interval (in mins)1524

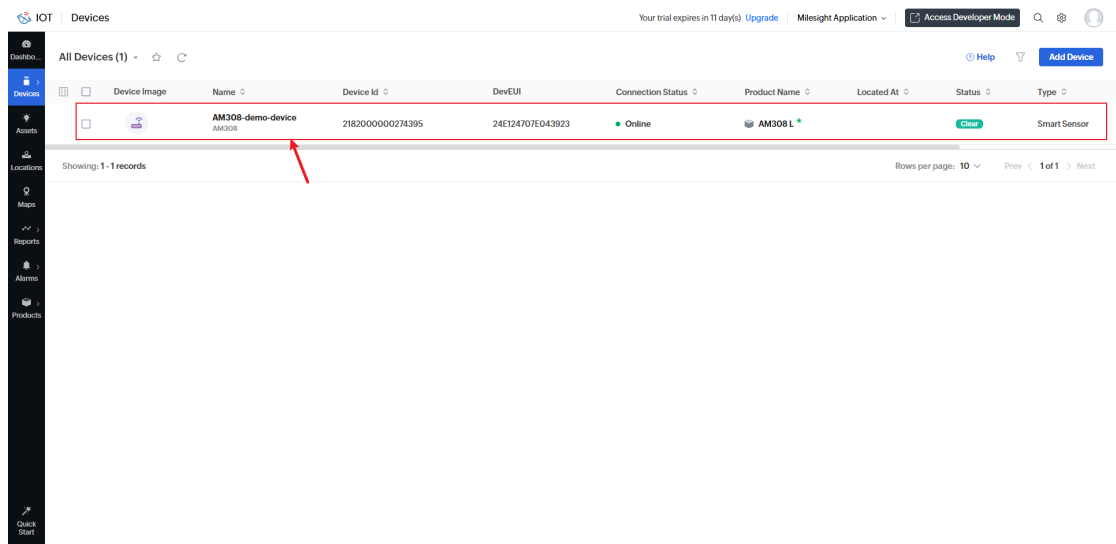
Edge Key0/50

Previous

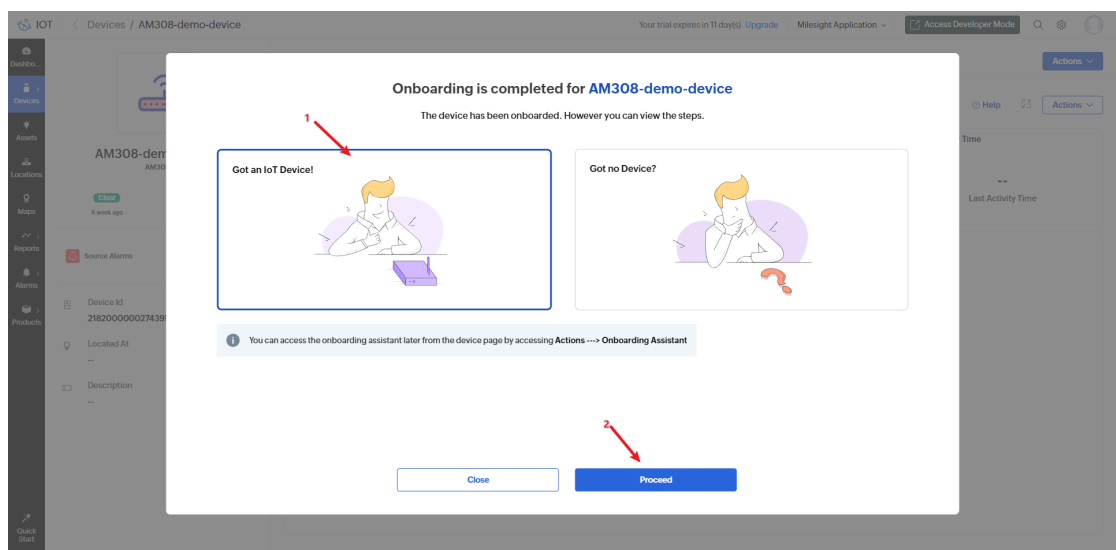
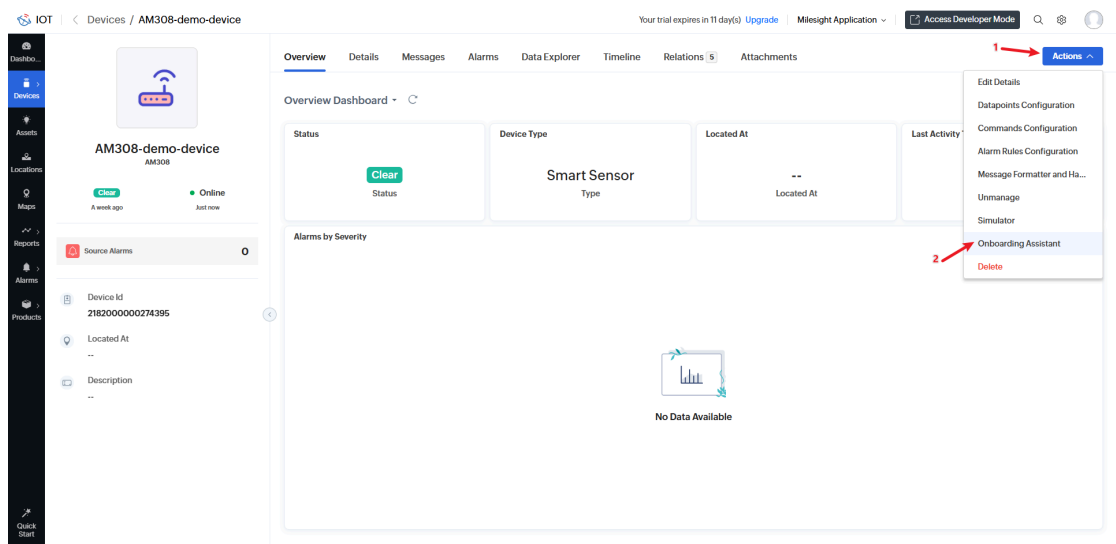
Proceed

添加完毕后，如下图所示：





点击进去后，继续配置，参考下面的操作即可：





IoT

Devices / AM308

Dashboard

Devices

Assets

Locations

Maps

Reports

Source Alarms

Alarms

Products

AM308-demo-device

AM308

Clear

A week ago

Source Alarms

Device Id

2182000000274395

Located At

...

Description

...

Quick Start

Onboarding Assistant - AM308-demo-device

Prerequisites

Device Messages

Datapoints

The onboarding assistant guides you to onboard your device managed in the LoRa Network Server via LoRa Data Stream & store the received data as **Source Datapoints**. Device with peripheral device or Asset/Location association can also be onboarded using the assistant as **Related Datapoints**

1. Associate the LoRa Data Stream : Associate the LoRa Data Stream Integrated with the required LoRa Network Server (LNS) in which your device is Registered & Activated. [Learn More](#)

LoRaWAN Datastream : **UG65-70.211**

The device page, click **Actions** -> **Edit Details** to update the LoRa Datastream. For creating datastream proceed to **Setup** -> **Integration** -> **Datastream**

Integrate the required LNS by creating a LoRa Datastream (if not available). [Add Datastream](#)

2. Onboard the associated datastream (if not done)

Status : **Connected**

Additional Information

Restart Onboarding

Proceed

IoT

Devices / AM308

Dashboard

Devices

Assets

Locations

Maps

Reports

Source Alarms

Alarms

Products

AM308-demo-device

AM308

Clear

A week ago

Source Alarms

Device Id

2182000000274395

Located At

...

Description

...

Quick Start

Onboarding Assistant - AM308-demo-device

Prerequisites

Device Messages

Datapoints

Device Messages

1. View **Uplink Messages** : Initiate & view the uplink message from the device

Status: **Listening for messages... 111**

Timestamp

Messages

Apr 02 2025  
02:14:46 PM

**9ae3ed31-1277-11f0-b516-5354009a415f**  
{"raw\_payload":"A2chAGRoUUAABlAAd9wllfWQACXOjwrt9JAMfS8AAXVt","device\_properties":{"altitude":0,"rssi":-32,"reported\_at":"2025-04-0...

The device page, click **Messages** -> **Live Messages** to view the live device messages.

2. **Transform Messages** : The received messages can be converted to desired formats and processed using Message formatter & handler. [Learn More](#)

Previous

Restart Onboarding

Proceed

IoT

Devices / AM308

Dashboard

Devices

Assets

Locations

Maps

Reports

Source Alarms

Alarms

Products

AM308-demo-device

AM308

Clear

A week ago

Source Alarms

Device Id

2182000000274395

Located At

...

Description

...

Quick Start

Onboarding Assistant - AM308-demo-device

Prerequisites

Device Messages

Datapoints

Datapoints

1. View **Datapoint Values** : View live value of the device's datapoint

Source Datapoints (14) [Source Datapoints](#) [Related Datapoints](#)

Datapoint Name

Value

Buzzer State  
AM308-demo-device

Not Parsed

Buzzer Status  
AM308-demo-device

Not Parsed

Pir State  
AM308-demo-device

Invalid Input  
20 seconds ago

Pir Status  
AM308-demo-device

Not Parsed

Showing: 1 - 5 records

Prev

1 of 3

Next

Datapoint Parsing Status

AM308-demo-device

Source / Related Datapoint(s)

DATAPOINT PARSED

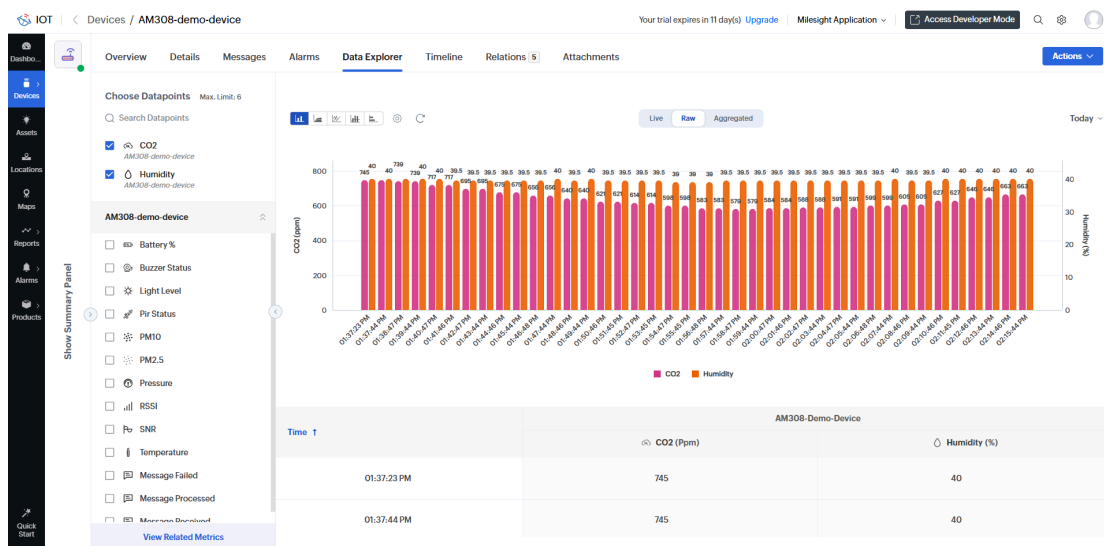
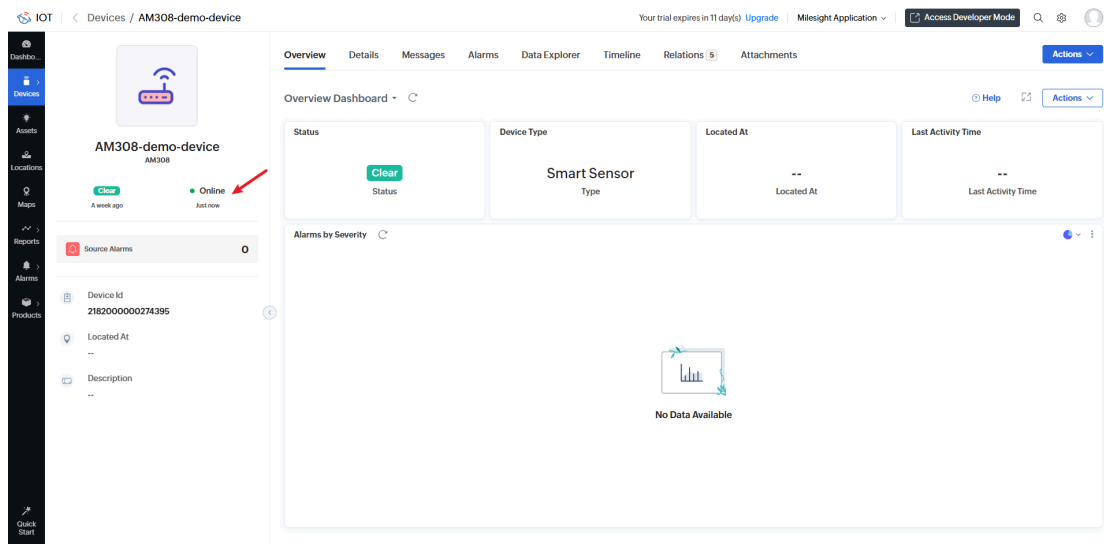
Parsing Status is marked as Parsed even if one of the source/related datapoint of the device is parsed.

To view the source datapoint values from the device page visit **Data Explorer** and click the required Datapoint(s). For Related Datapoints click **Add Related MEs** and select the required Instance

Previous

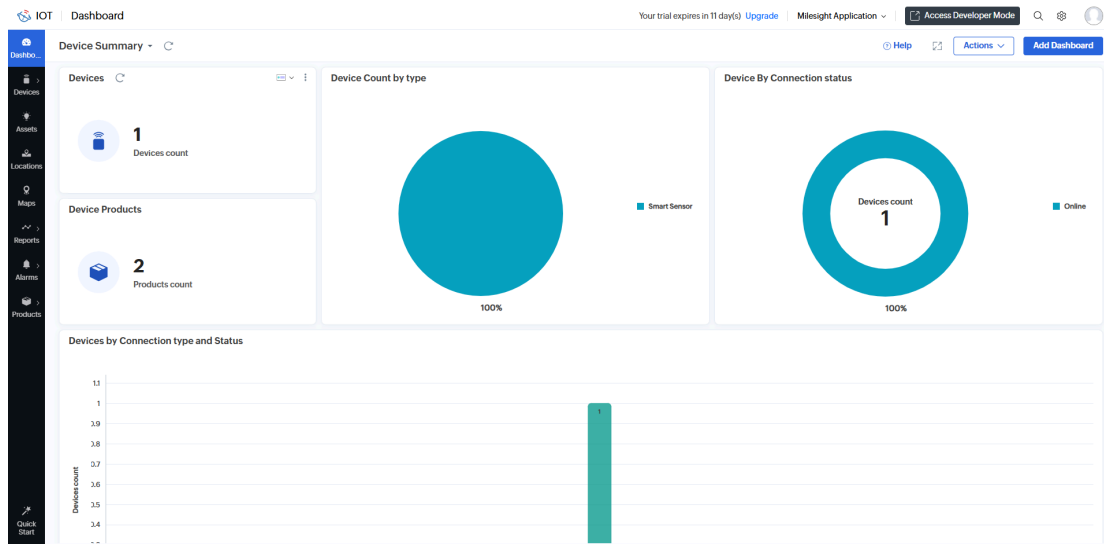
Restart Onboarding

Finish



至此，我们的 AM308 已经成功添加到了 Zoho IoT 平台，并且能够正常看到数据。

回到我们的 Dashboard 的默认界面，也可以看到如图信息：



至此，本文介绍完毕了所有的流程。

官方参考资料：

<https://help.zoho.com/portal/en/kb/iot/devices/working-with-datastreams/articles/connectivity-guide-milesight>

-END-

