

# Table of Contents

---

- [Introduction](#)
- [Step 1: Prerequisites](#)
- [Step 2: Prepare your Device](#)
- [Step 3: Invoke direct methods from IoT Hub to device](#)
- [Step 4: Configuring AL-800 tags event](#)
- [Step 5: Additional Links](#)

## Introduction

---

A fixed RFID UHF Reader with built-in operation data collection function and integrated with the cloud. It is a RAIN RFID Reader with built-in Compact Edition Middleware that can customize information collection (TID, EPC), designated cloud service location, etc., does not need to integrate through PC or workstation. Moreover, it could be applied into various industries such as parking lots, the gate or forklifts in the warehouse to do further management or inventory to increase work efficiency.

This document describes how to connect AL-800 device to Azure IoT Hub. This multi-step process includes:

- Configuring Azure IoT Hub
- Registering your IoT device
- Provisioning your devices on Device Provisioning service
- Invoke direct methods from IoT Hub to device
- Configuring AL-800 tags event

## Step 1: Prerequisites

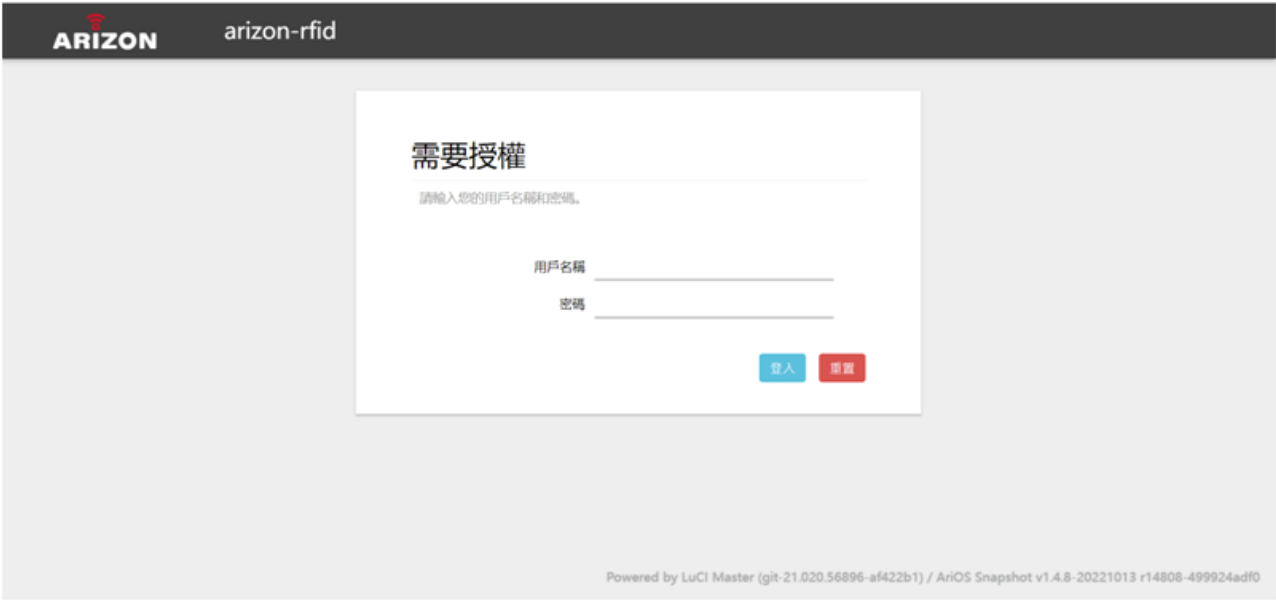
---

You should have the following items ready before beginning the process:

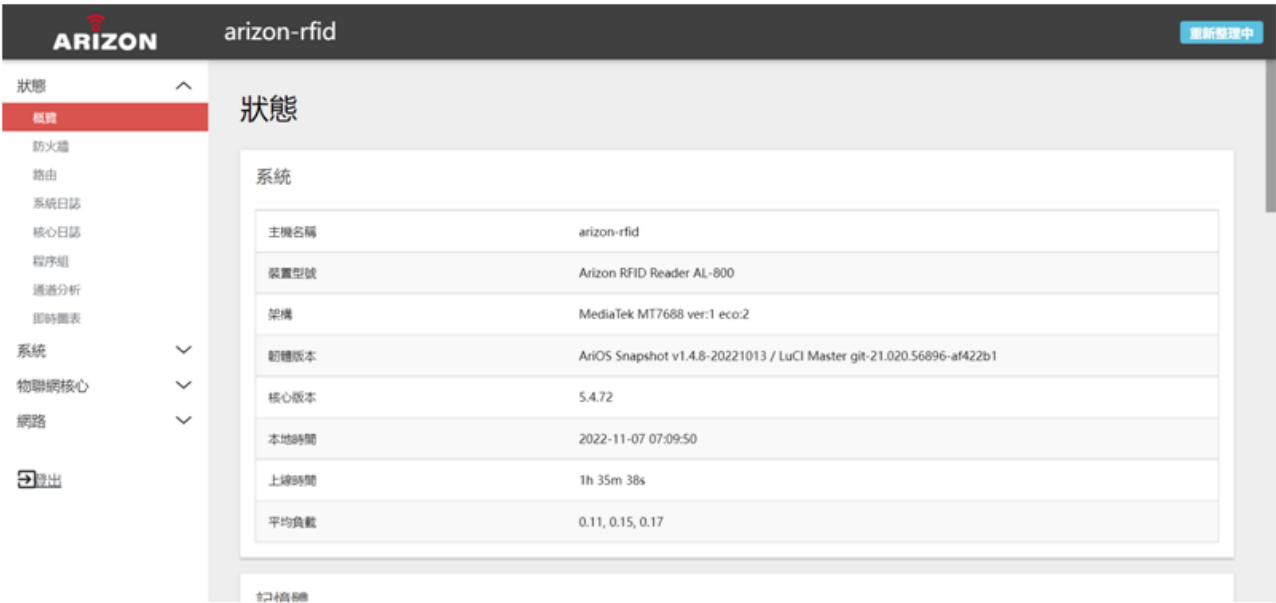
- [Setup your IoT hub](#)
- [Provision your device over DPS](#)

# Step 2: Connect to IoT Hub

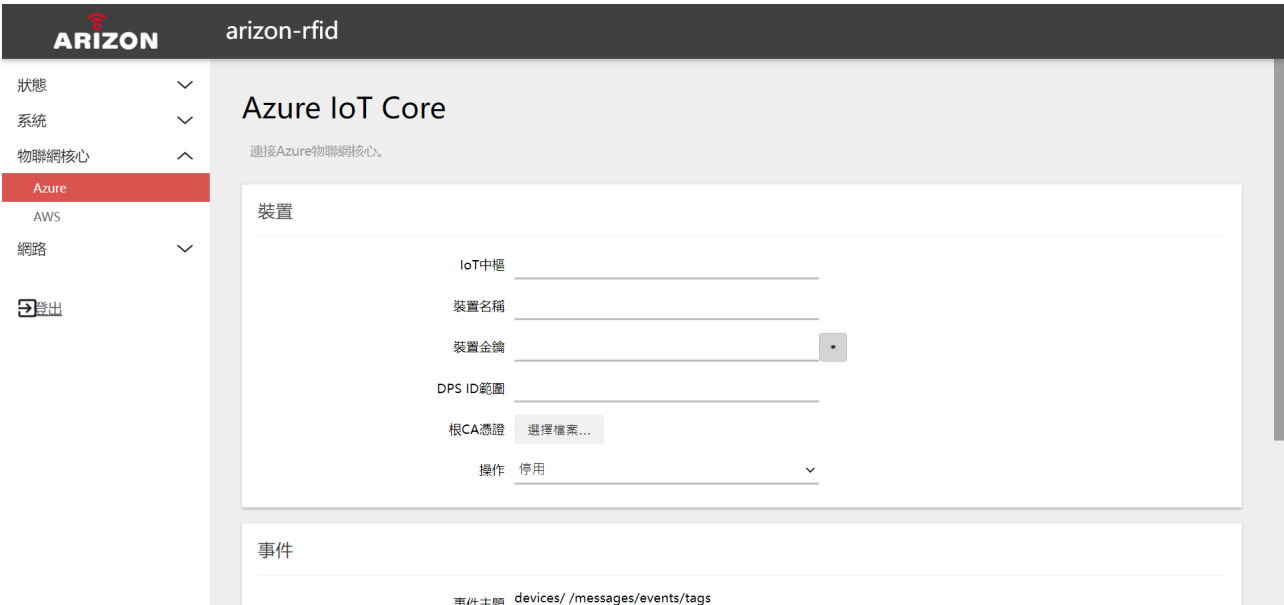
1. Use the Ethernet cable (Wired Network) to connect AL-800 to your computer.
2. URL: <https://192.168.50.1/cgi-bin/luci/>



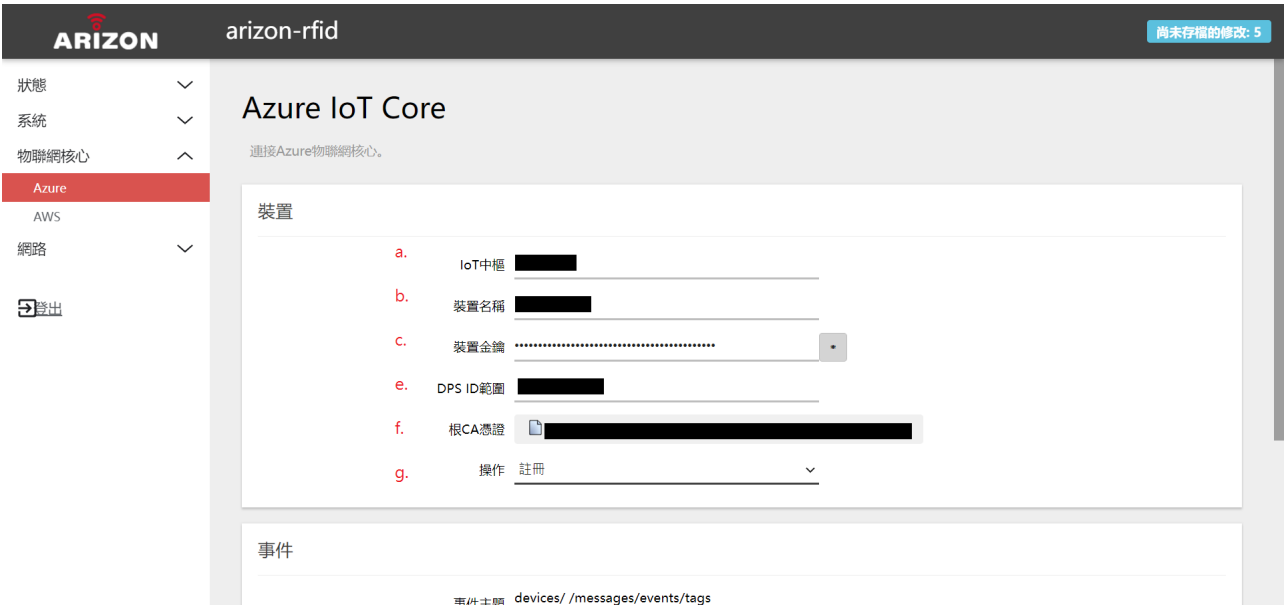
3. Sign in with the user name and password. Welcome to the main page.



4. Choose page IoT Core → Azure



5. Provision your device over DPS(optional)



- b. Device ID (required)
- c. Device key (required)
- d. DPS scope (required)
- e. Root CA certificate (required)
- g. Operation (register) (required)

click "Save" and "Save and Apply"

ARIZON arizon-rfid 尚未存檔的修改: 5

裝置名稱 [redacted]  
 裝置金鑰 [redacted]  
 DPS ID範圍 [redacted]  
 根CA憑證 [redacted]  
 操作 註冊

事件

事件主題 devices/ /messages/events/tags  
 MQTT Topic  
 事件間隔 5  
 標籤筆數 5

2. 儲存並套用 1. 儲存 重置

Powered by LuCI Master (git-21.020.56896-af422b1) / AriOS Snapshot v1.4.8-20221013 r14808-499924adf0

## 6. Connect to Azure IoT Hub

ARIZON arizon-rfid 尚未存檔的修改: 5

Azure IoT Core  
 連接Azure物聯網核心。

裝置

a. IoT中樞 [redacted]  
 b. 裝置名稱 [redacted]  
 c. 裝置金鑰 [redacted]  
 e. DPS ID範圍 [redacted]  
 f. 根CA憑證 [redacted]  
 g. 操作 啟用

事件

事件主題 devices/ /messages/events/tags

- a. IoT Hub Name (required)
- b. Device ID (required)
- c. Device key (required)
- e. Root CA certificate (required)
- g. operation (enable) (required)

click "Save" and "Save and Apply"

ARIZON

arizon-rfid

尚未存檔的修改: 5

狀態

系統

物聯網核心

Azure

AWS

網路

登出

裝置名稱

裝置金鑰

DPS ID範圍

根CA憑證

操作

啟用

事件

事件主題

MQTT Topic

事件間隔

標籤筆數

儲存並套用

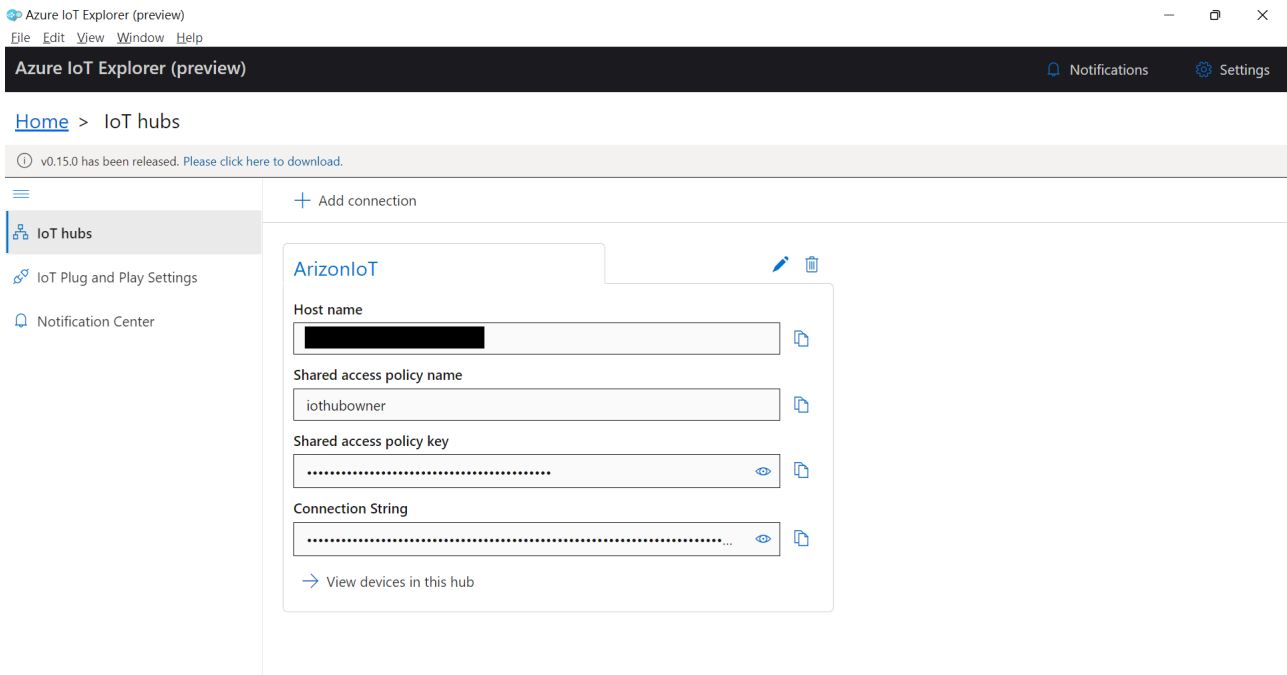
儲存

重置

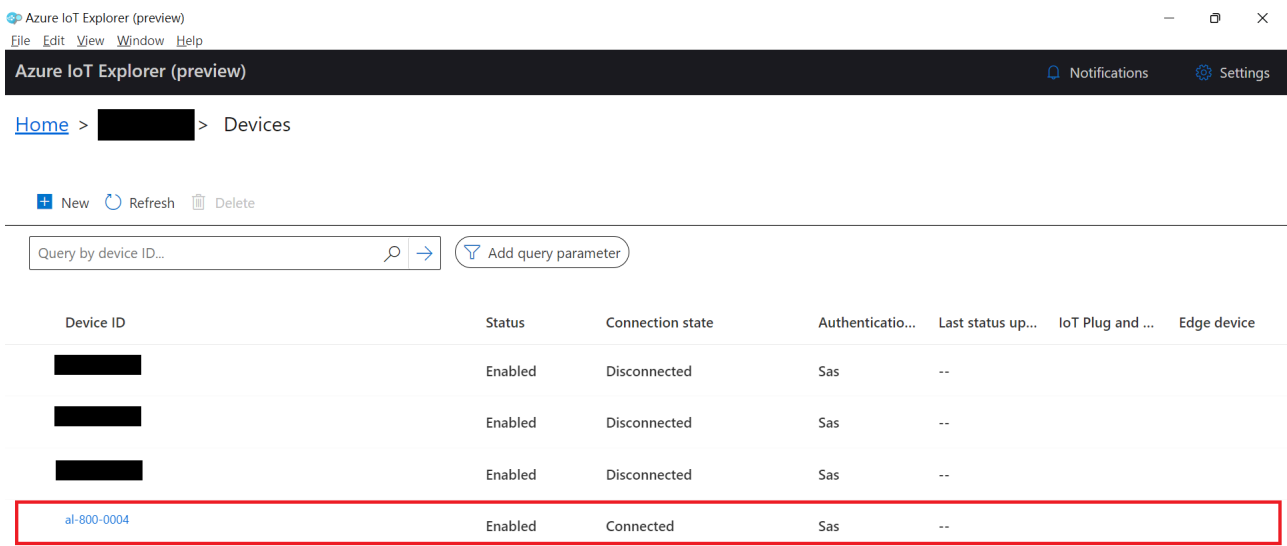
Powered by LuCI Master (git-21.020.56896-af422b1) / AriOS Snapshot v1.4.8-20221013 r14808-499924adf0

# Step 3: Invoke direct methods from IoT Hub to device

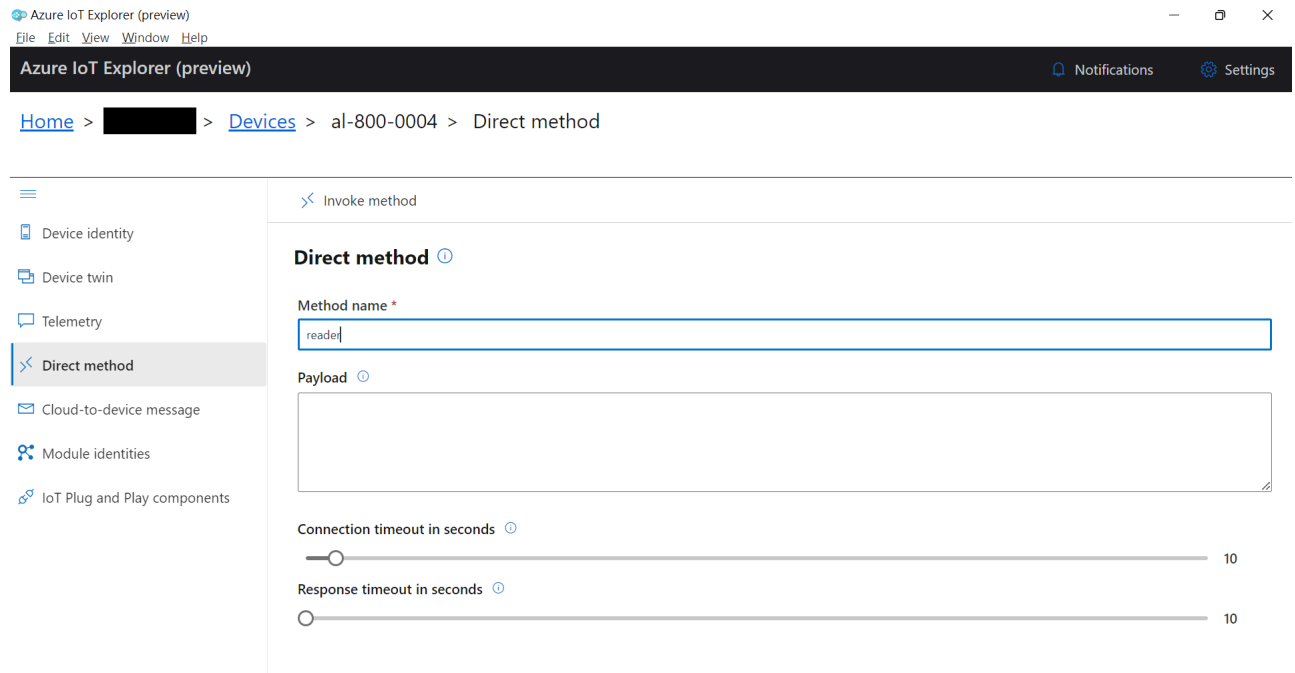
## 1. Azure IoT Hub.



## 2. Select target device



### 3. Choose "Direct method", Method name "reader", Click "Invoke method"



## Step 4: Configuring AL-800 tag event

### 1. Set event configuration. MQTT Topic: devices/AL-800/messages/events/tags

#### a. Response interval (second)

#### b. Tag count



click "Save" and "Save and Apply"

## Step 5 : Additional Links

---

Please refer to the below link for additional information.

- [Manage cloud device messaging with Azure-IoT-Explorer](#)
- [Azure SDK](#)
- [Configure to connect to IoT Hub](#)
- [How to use IoT Explorer to interact with the device](#)