STM32U5 Azure Quick Connect

Software Requirements

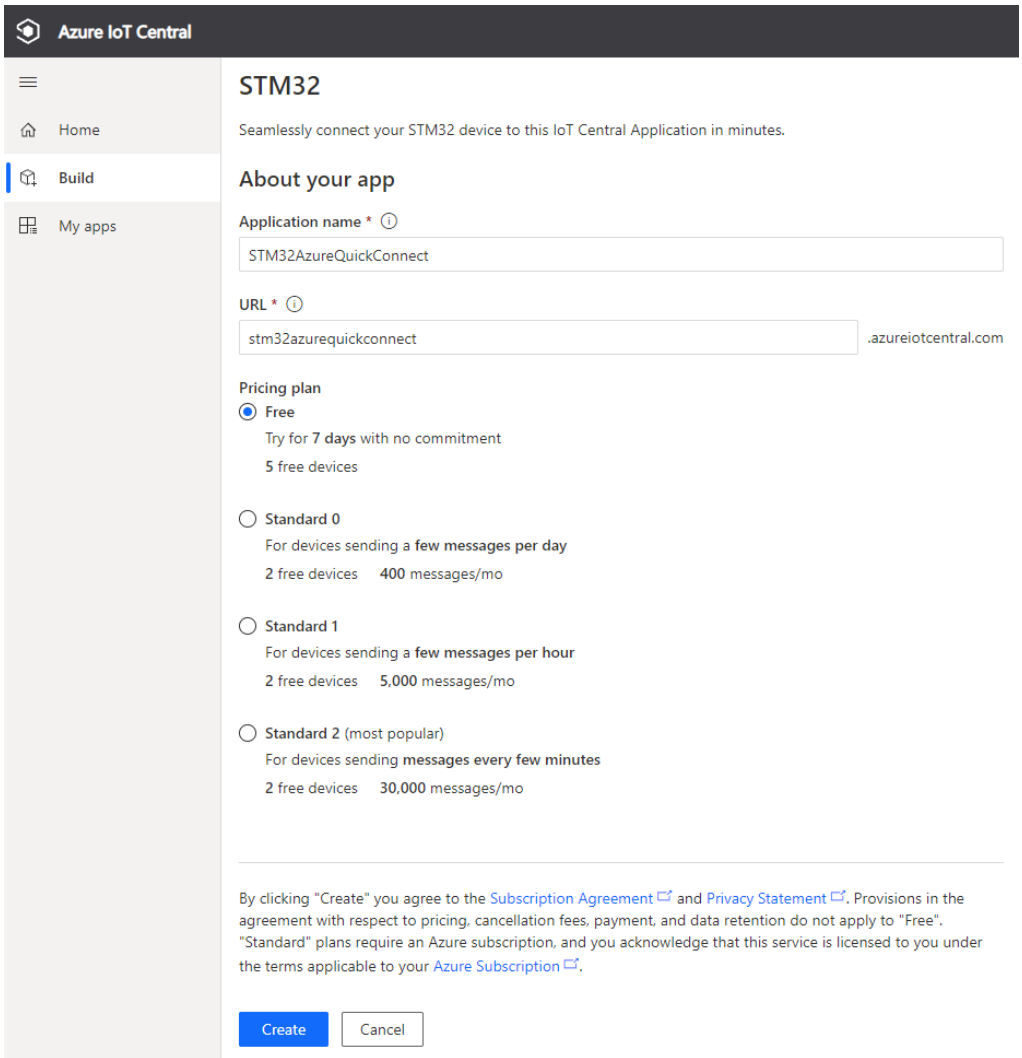
- Python 3
  - Ensure install includes pip
- PySerial
  - Install using pip

Hardware Requirements

- B-U585I-IOT02A Discovery Kit
- Micro-USB Cable

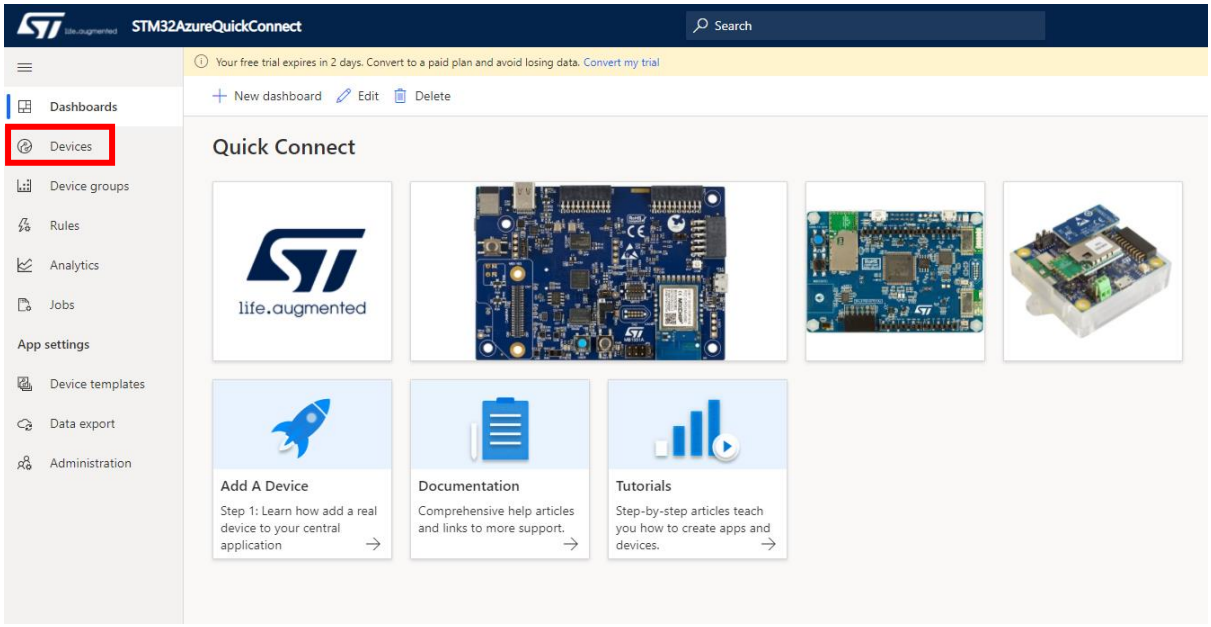
Create an Azure IoT Central Application

Click the Quick Connect Application Template and login with a valid Microsoft account (no subscription required)
After choosing a unique Application name, URL, and Pricing plan click ‘Create’

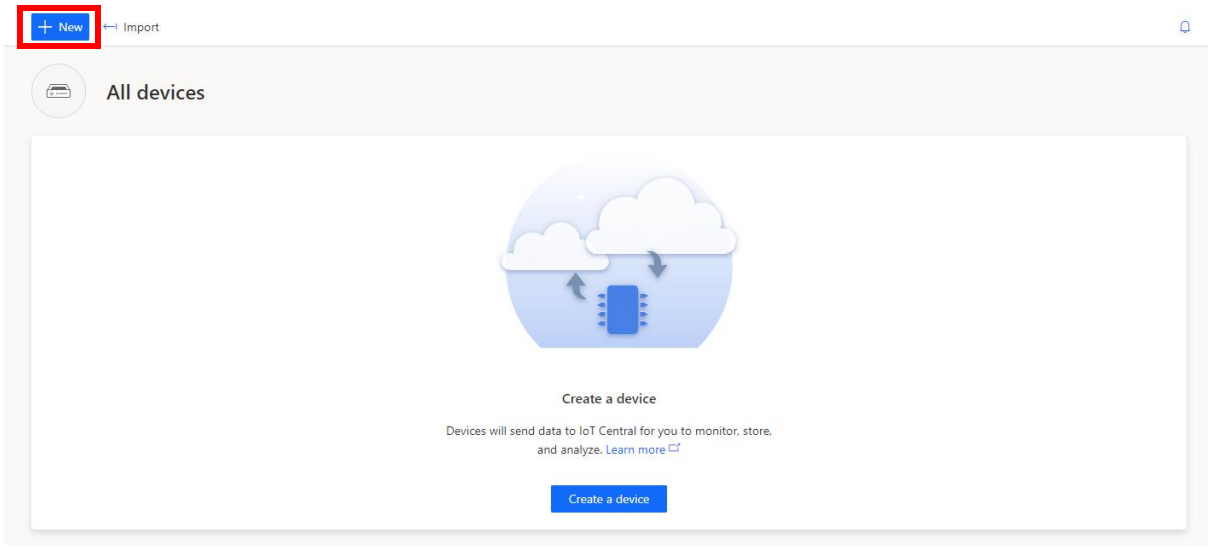


Add A Device Your Central Application

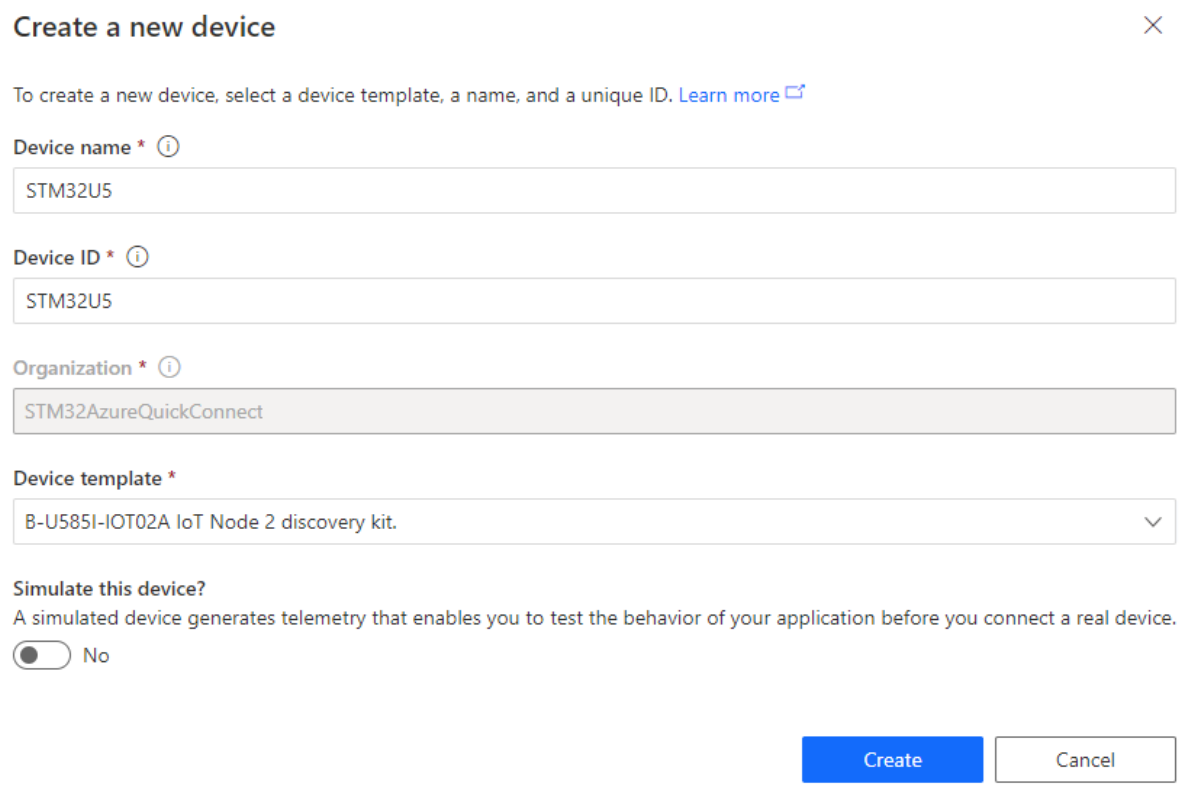
In the menu on the left select ‘Devices’



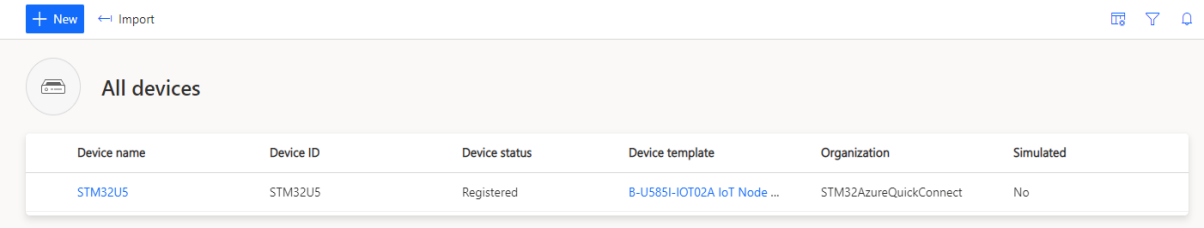
Select ‘New’ to add a new device



Enter a unique ‘Device name’ and ‘Device ID’
Choose ‘B-U585I-IOT02A IoT Node 2 discovery kit.’ as the Device Template.
Make sure ‘Simulate this device’ is not selected
And select ‘Create’

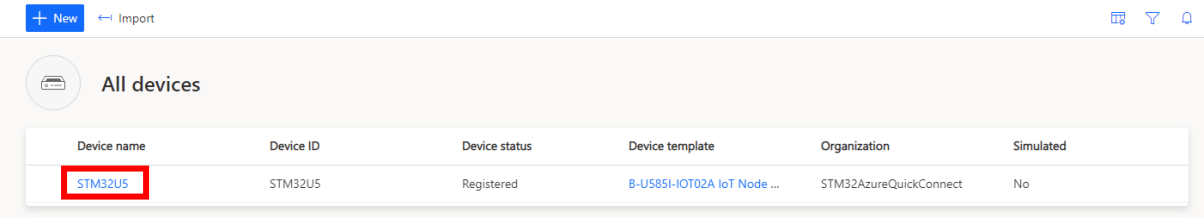


Your new device should now populate in the devices tab

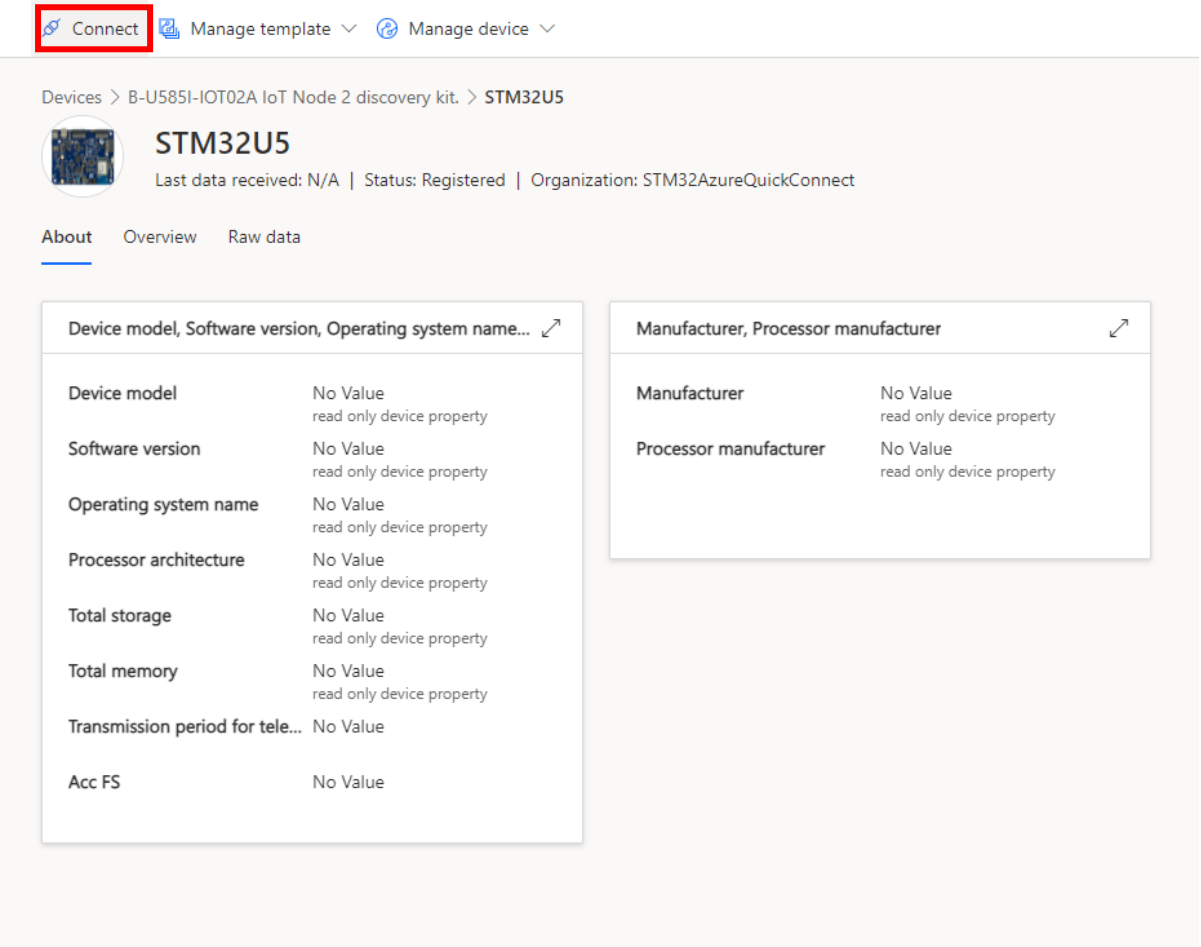


Collect Connection Credentials

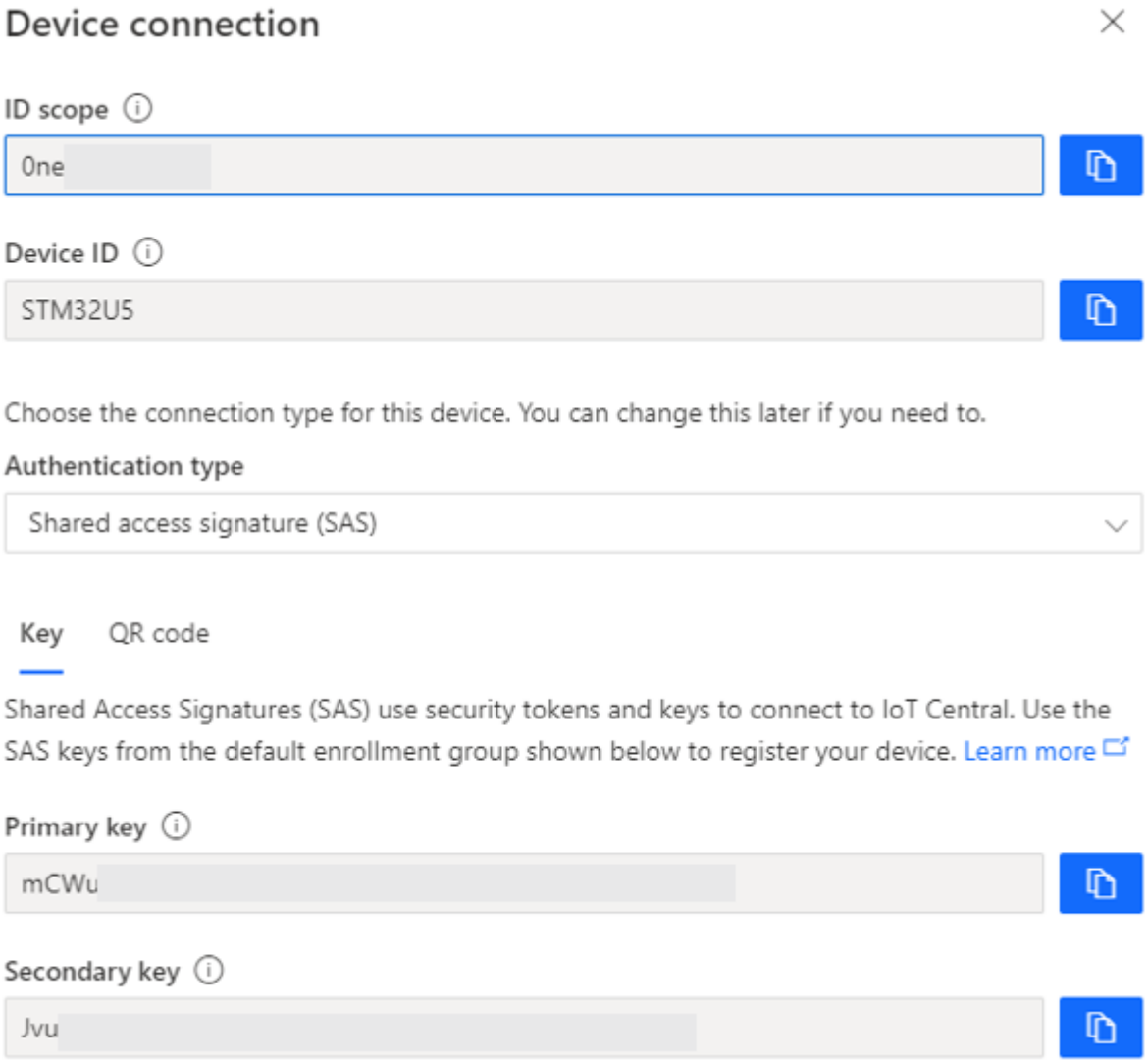
Click on the ‘Device Name’ of the device you wish to connect to



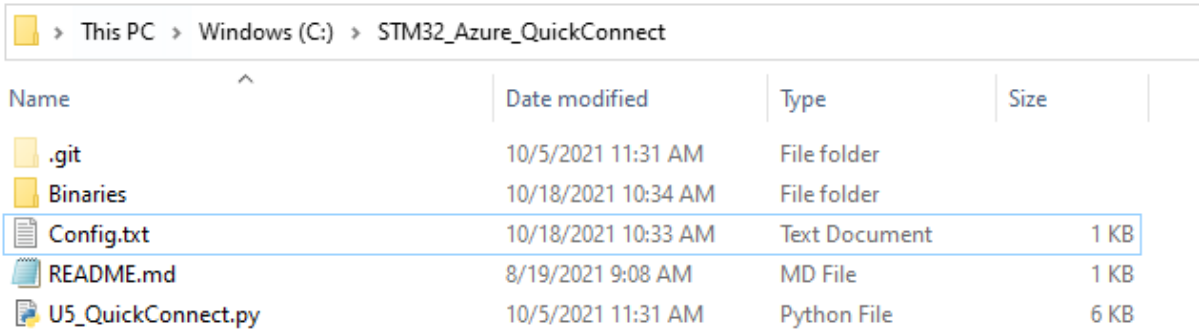
Click ‘Connect’



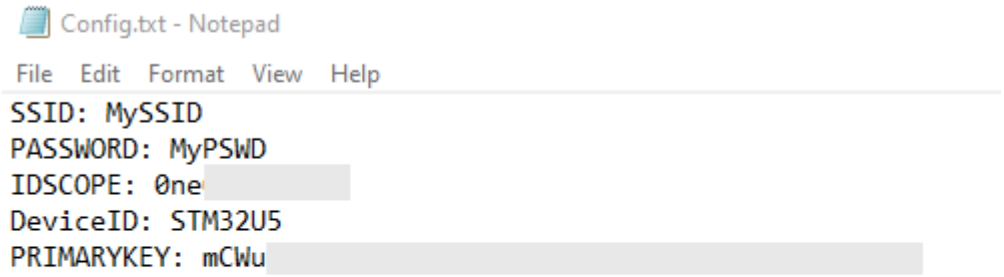
Here you can view all the required device Connection Credentials



In File Explorer Navigate to STM32_Azure_QuickConnect and open Config.txt

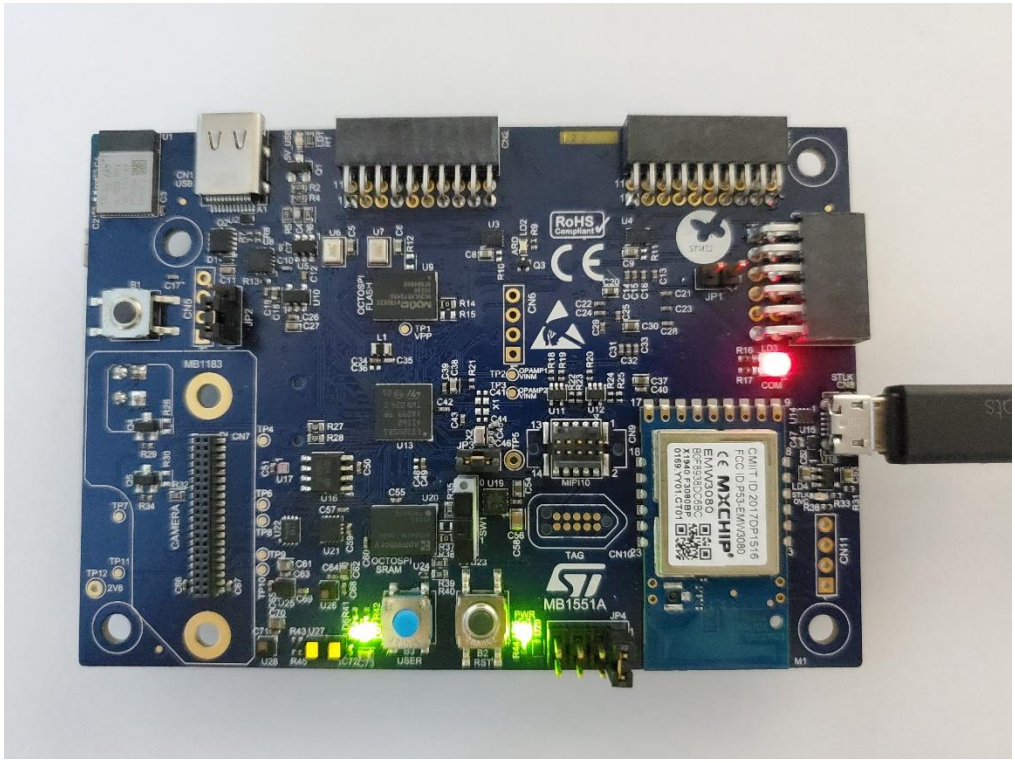


Enter the Wi-Fi SSID and Password for your 2.4Ghz network
Copy and Paste the ID Scope, Device ID, and Primary Key into this file and save.

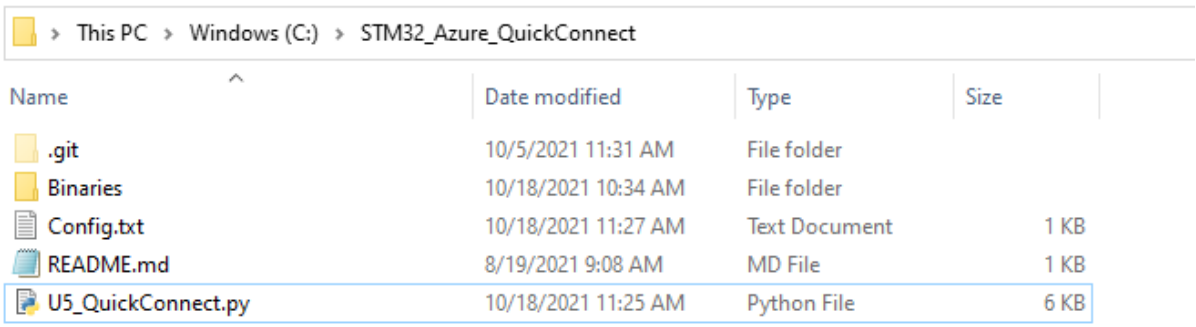


Run U5_QuickConnect.py

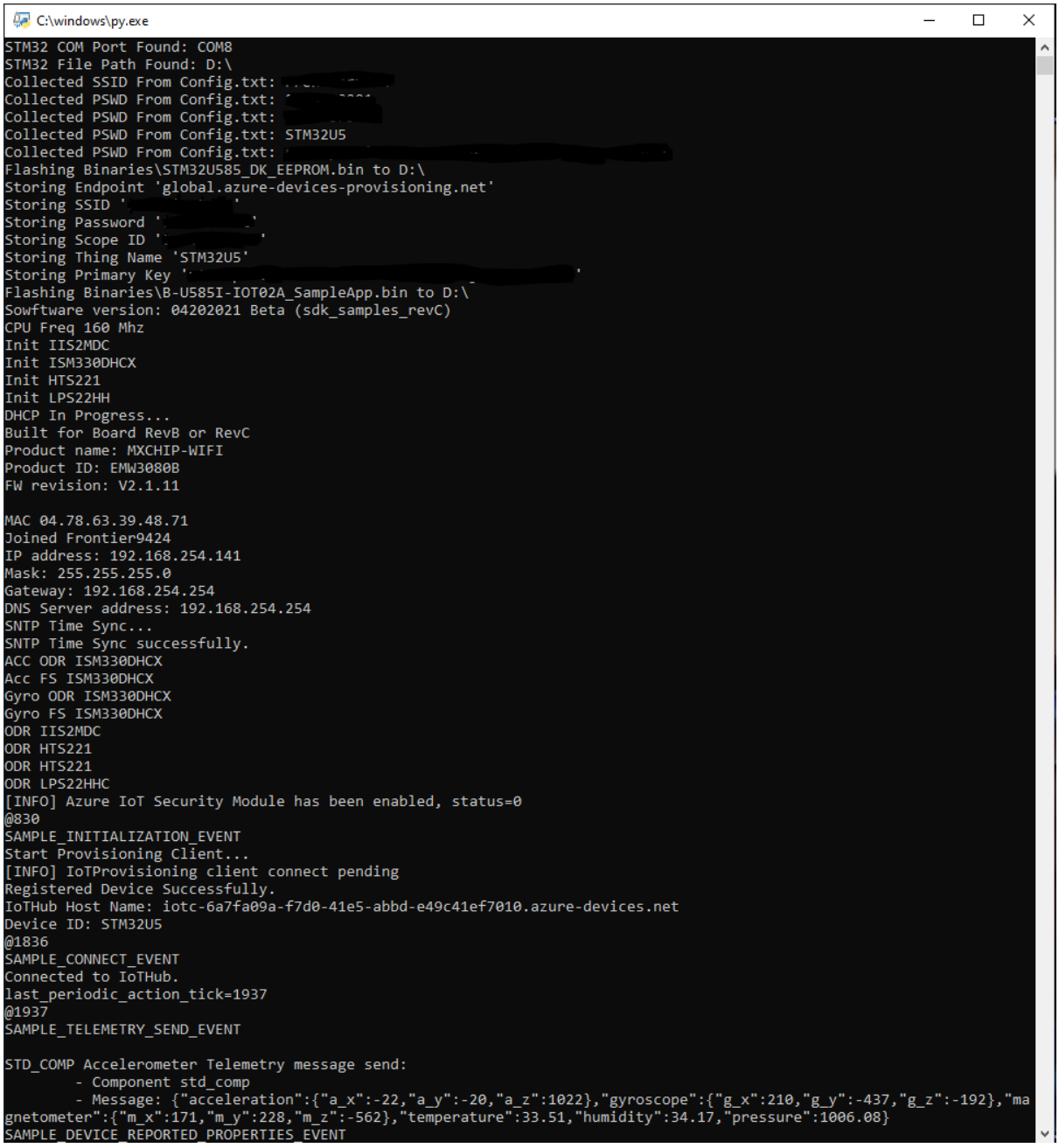
Connect your Discovery Kit using the Micro-USB cable as pictured below



In File Explorer Navigate to STM32_Azure_QuickConnect and run U5_QuickConnect.py

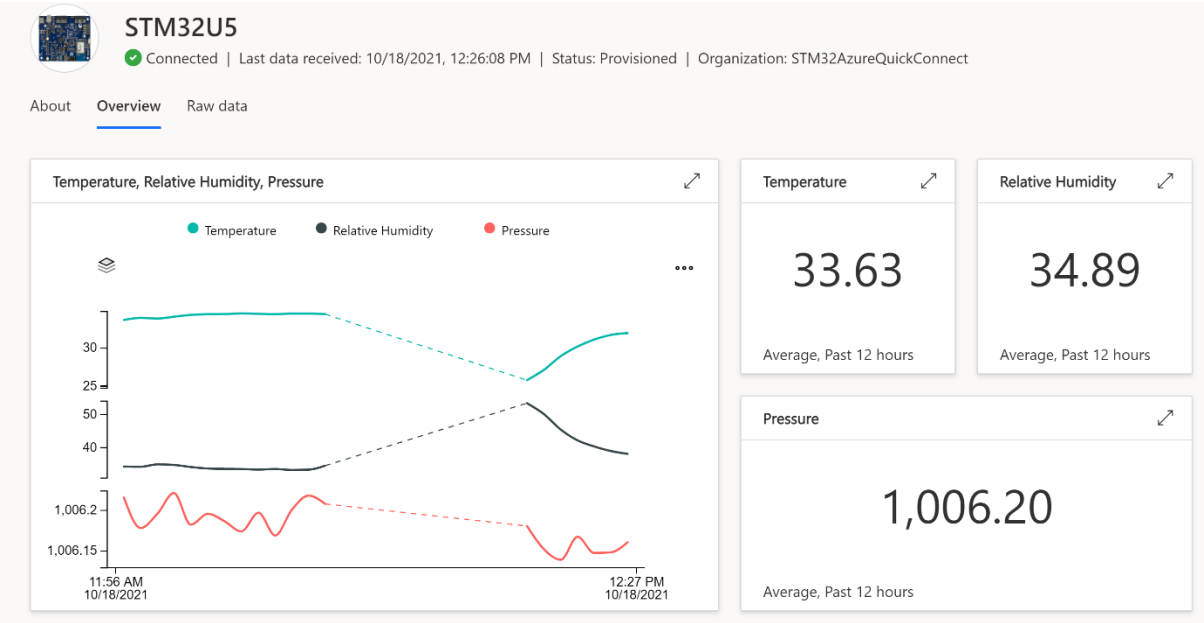


Script logs can be seen in the window:



Monitor Device Activity

Navigate back to your device in your central application and you can see a summary of the incoming data



Under ‘Raw data’ specific MQTT messages can be viewed