**Implementation Air Quality Google Cloud Platform System**

This guide will explain the basic setup of implementing an air quality cloud-based system. The infrastructure has been tested and implemented and is known to work. However, this basic setup can always be customized and improved upon.

For the easiest implementation, I recommend keeping the naming conventions the same as this guide. This will allow all the software to work with minimal adjustments to the code. I will do my best to highlight when code needs to be updated with credentials or the GCP project name.

![A close up of a map

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4UQARXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDE5OjEwOjE2IDEwOjM4OjExAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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XGFbJJ3DB560UVcq1SUk5Sb+Y404R0SJP+ET0OS1vbI6Pp/wBk1CUz3kH2WMx3EjYy8i4w7HA5YE8CoH8DeHJNCTR38P6W+kI4ddPNlF9nDYJ3CPbtzn270UUe1qKStJ99+vcfJF7ruE3gnw9cWN3ZyaDpklpdFZbiB7OMpMygBWdSuGIwME5xgelWbHwro2mNc/Y9JsbQ3KLbzGC2RDJGilERiByqrwAeAOBgUUVn7ao7xcna/cqMIXvboVtN8F+HtH0+8stP0HTLCyvPkubW2s4445gw2kOoGG4JHNWY/DOkLNpZXS7JW01GjsWW3QG0UrsKxYHyDaAMLjgAdqKKcqtSTbcn9/lYUYxXIkjR9D3IB6e1eG/GD/k6D9l//sdLX/0usaKK+i4PjFZxSsukvyZ8/wARyk8tqXfb8z9g16U6iiv6KPxAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA+LvGP/KWLwj/ANkw/wDclcV9oCiigBaayhm5oooAFG0Yob7wHrRRQAv40gGRmiigBu39TT16UUUAMkODn2J/Knr3oooAbJ8qk98U4UUUAIw70q8UUUAI3bselKOOKKKAGydvrQFC9O1FFAC0Yx+dFFAAvce9DevpRRQAq96Ru3btRRQAq9KbIoYNkZGOh70UUAeH/tUS3Q0Xw9Db6lqWm/vdRuPM02+ltJDJDpN5NES0TKSFkjRtpypKjINfOPw3+IXiH4t6l4tl8Qa1qm7TdctZ7ZbDVLq0VC0F+jJiOVR5Z+wwNs+7u3tjLtkopLcqXwnvXwahu9P8G/CXTH1jVtQj1aO6u76e+v5Zp52NmThpCd23LlgOxCkYxXyb8bPGfif4b6bbQ+H/ABb4js45bO+jYSa1dTn95fX9nuzJIx3JEE2HPytGjdQclFX3M+x9hfsnWtzdeFdW1i+1fVdVvdSumeQ6jeyXCx7ZZVAjDkhBjrjrgegr3Rfu+nAooqEWxDw3r05p0f3QfUZoopiEdclfXpmnDpRRQAjDkGhPuiiigAbnilX7ooooARx8p+lIo28dfc9aKKAF6sw9KOn86KKAFpB83X0oooAEO5QaD1oooAVe9IfvAe2aKKAFXjNNZiGH+e4oooAcoxn60h+8B2xRRQAo/rRRRQAtFFFABRRRQAUUUUAf/9k=)

This is a block diagram of the air quality cloud system. We will be implementing each of these components. The order in which you implement each component is important; some components must be in place for other components to work.

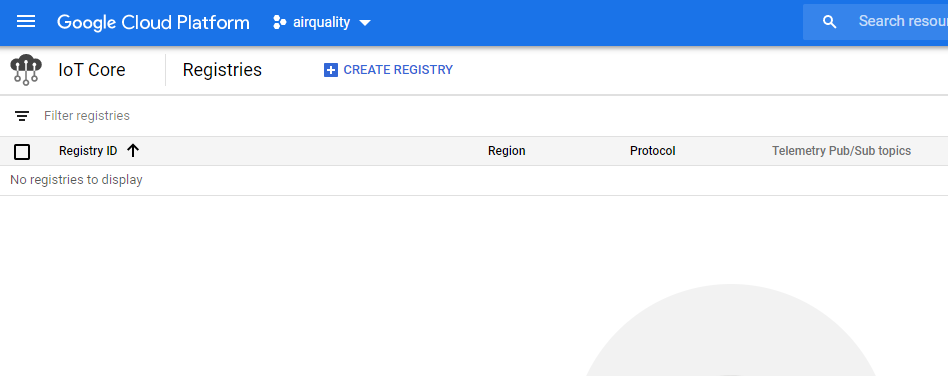
Start by creating a new project in GCP and enable billing. This is simple and will take about 5 minutes. Be aware this project will cost money to operate. With 1-50 sensors with light web app access the cost will be about $30 per month.

# IOT CORE AND THE DEVICE REGISTRY

Start with setting up IoT Core. IoT core is the entry point into GCP for hardware sensors and acts as the MQTT broker. Within IoT Core there are two components that need to be setup: Device Registry and Devices. The device registry is the MQTT portion of IoT where topics and other configuration items exist. Once the device registry is setup then you can create devices within the registry. Devices represent physical devices or sensor. Devices must be created in the registry before they can be connected to IoT.

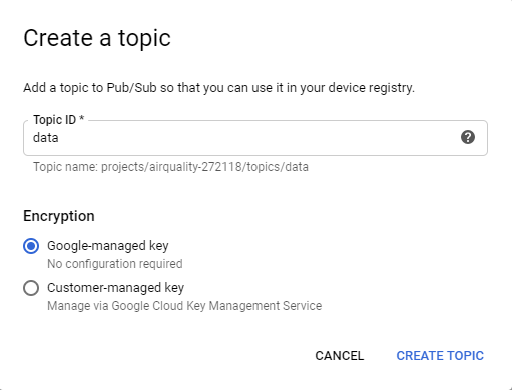
First, click on the menu in the upper left-hand corner, scroll down and select IoT Core. Start by enabling the API which will allow you to get started.

Once IoT Core is enabled you will be redirected to the IoT Core dashboard. Click on the “Create Registry” button at the top of the screen.



Give the registry a name. Use **airquality** as the default name to minimize changes to code. Select the appropriate region depending on where you are implementing the project.

Create a default topic for your sensors where your sensors can publish. We will call this **data**. Use the Google-managed key.



Finally, under Advanced Options, use the following configuration settings:

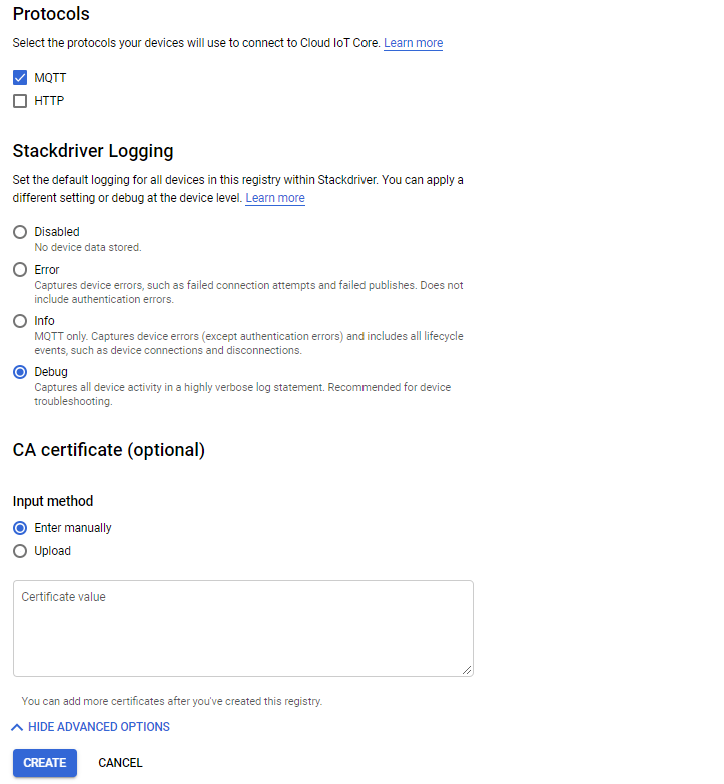
a. Protocol: MQTT

b. Stackdriver Logging: Debug (this will provide the maximum sensor information

c. CA certificate: Blank - not going to use for this implementation

d. Device state topic – Create a topic called “state”

e. Select create



The Device Registry is setup and we are ready to start creating devices.

# CREATING DEVICES IN GOOGLE IOT CORE

Remark: Before any device can connect to IoT Core it must be created within the GCP. IoT Core acts as the MQTT broker for devices and will NOT except any traffic from devices that are not contained in the device registry. Therefore, PRIOR to connecting or deploying a device these steps must be taken.

1. Login to Google Cloud Platform (<https://cloud.google.com/>)

2. From the navigation menu (upper left corner) select “IoT Core.”

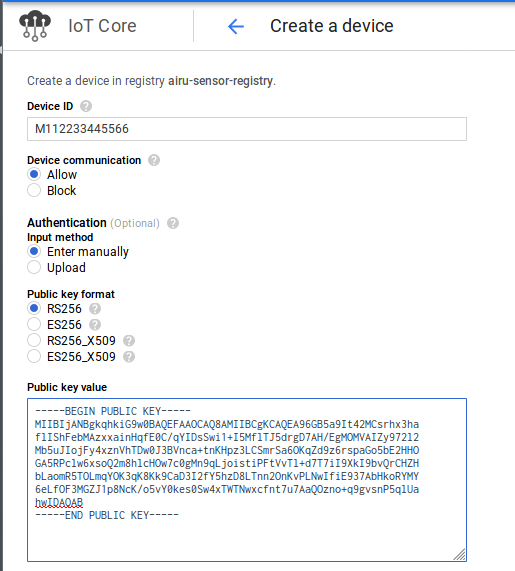
3. Select “airu-sensor-registry.”

4. From the menu along the left side, select “Devices.”

5. From the top of the page, select “+ CREATE A DEVICE.”

6. Fill out the form using the template below. The “Device ID” will be the character ‘M’ followed by the MAC address (replace 112233445566 with the MAC of the device). Do not include any colons when entering the MAC address.

The letter ‘M’ is required because a Device ID cannot start with a number. Therefore, as a design decision throughout GCP the device ID will always be represented by the letter ‘M’ followed by the MAC address in this manner: M112233445566.



7. Copy the public key EXACTLY as found below into the “Public key value” section:

-----BEGIN PUBLIC KEY-----

MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEA96GB5a9It42MCsrhx3ha

flIShFebMAzxxainHqfE0C/qYIDsSwi1+I5MflTJ5drgD7AH/EgMOMVAIZy972l2

Mb5uJIojFy4xznVhTDw0J3BVnca+tnKHpz3LCSmrSa6OKqZd9z6rspaGo5bE2HHO

GA5RPclw6xsoQ2m8hlcHOw7c0gMn9qLjoistiPFtVvTl+d7T7iI9XkI9bvQrCHZH

bLaomR5TOLmqYOK3qK8Kk9CaD3I2fY5hzD8LTnn2OnKvPLNwIfiE937AbHkoRYMY

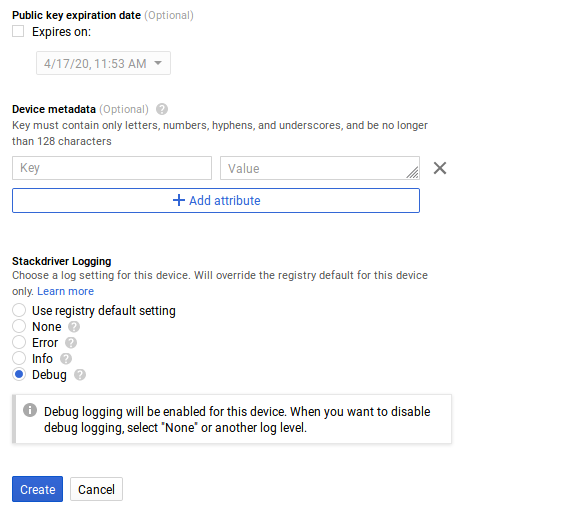
6eLfOF3MGZJ1p8NcK/o5vY0kes0Sw4xTWTNwxcfnt7u7AaQOzno+q9gvsnP5qlUa

hwIDAQAB

-----END PUBLIC KEY-----

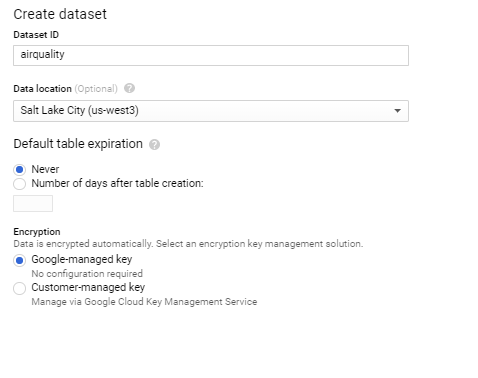
8. Finish filling out the form using the settings provided below and then select “Create.”

Remark: Selecting “Debug” as the logging setting allows the administrator access to a robust set of logs that can be viewed from within GCP. These logs are very useful in debugging problems that may be occurring at the sensor (firmware) or within GCP itself.



# CREATING THE BIGQUERY DATABASE TABLE

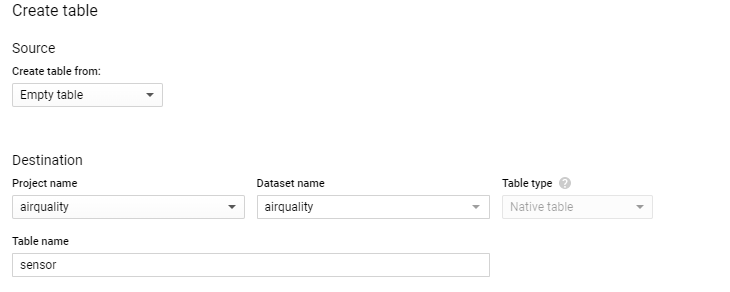
Next, we will create the BigQuery DB table. From the menu in the upper left-hand corner of the GCP console, scroll down and select BigQuery. We need to first create a dataset and then we can create a table. Double click on the project name under the Resources section and then click on the create dataset button. Name the dataset ***airquality*** and select the appropriate location near where you plan to implement the project. Select the other default settings as shown below.



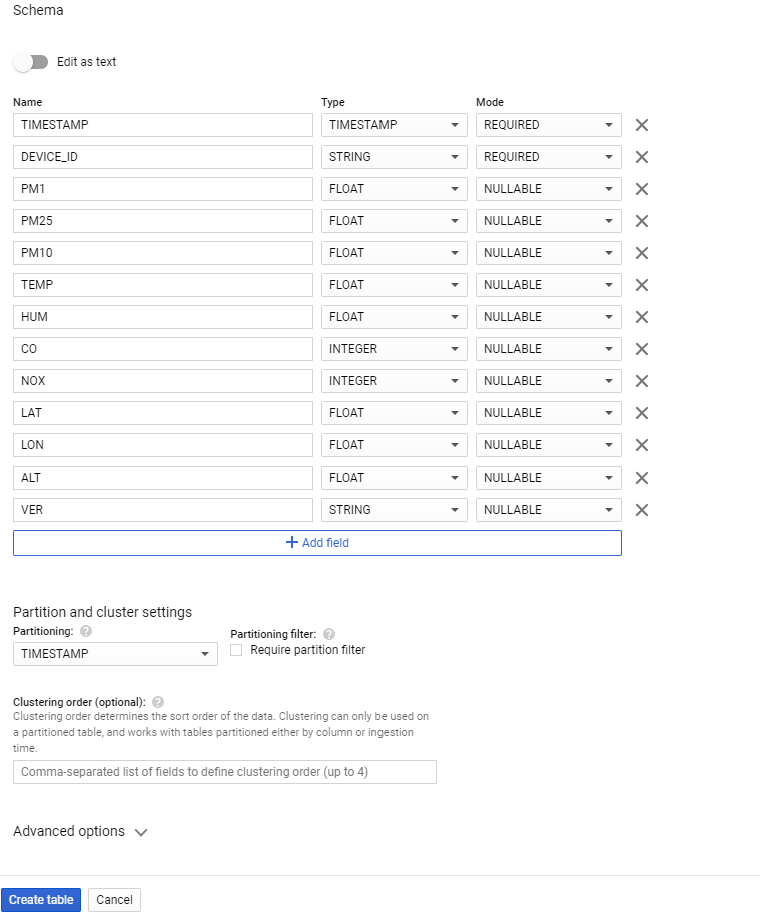
With the dataset created we can now create the table where our sensor data will be stored. BigQuery table fields cannot be deleted after creation so it is important that you do not create fields you do not intent to use. You can always add fields to your schema at a later time if you don’t get everything you need.

Additionally, data stored in a BigQuery table cannot be modified. Once your sensor data is uploaded to the table you cannot alter data in any of the fields. Your only option is to upload a new record with the changes and delete the old record. I recommend reading more about the features of BigQuery; it is setup very nicely to handle IoT sensor data.

Create a table by selecting the dataset under your project name and clicking on the create table button on the right side of the screen. Name the table ***sensor***.

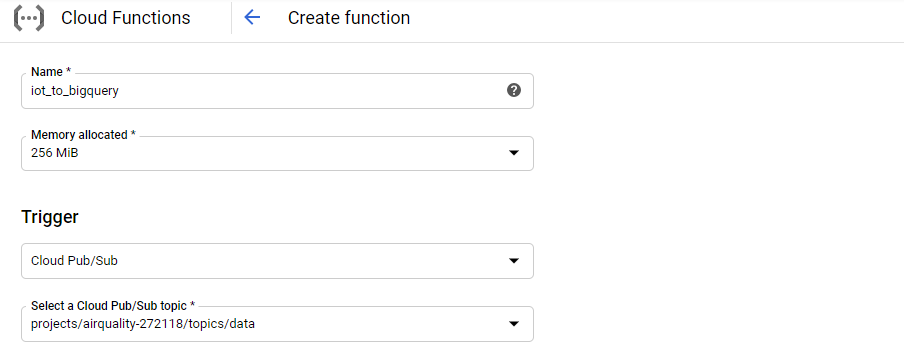


Create the following schema and partitioning setting for your table. Once complete select the create table button. Your table is now ready for sensor data.



# CREATING CLOUD FUNCTION

The cloud function acts as the forwarding agent to get data from IoT Core and insert it into the BigQuery DB table that we created. Navigate to the cloud function section withing GCP (menu on upper left corner). Click on cloud function and create cloud function. Give your cloud function a name. I used ***iot\_to\_bigquery.*** For trigger, select Cloud Pub/Sub and for topic select the data topic that we created when setting up the Device Registry.



Next, we need to write the code that will insert sensor data into the database. I am not going to explain the code in detail but will provide it in this guide so you can copy and paste it into the editor. Set the runtime setting to **Node.js 8**.

There are two files that need to be completed: Index.js and Package.json. Paste the following code into the inline editor ensuring that the variables found at the top of Index.js match those in your project.

Lastly, update the *Function to execute* to “publishBQ” – this will call the function contained in Index.js. Then click on the create button.

Package.json:

{

  "name": "iot-to-bq",

  "version": "0.0.1",

  "dependencies": {

    "@google-cloud/pubsub": "^0.18.0",

    "@google-cloud/bigquery": "^1.0.0"

  }

}

Index.js:

/\*\*Triggered from a message on a Cloud Pub/Sub topic.

 \* @param {!Object} event Event payload.

 \* @param {!Object} context Metadata for the event. \*/

var BigQuery = require('@google-cloud/bigquery');

var projectId = 'INSERT\_PROJECT\_ID\_HERE';

var bigquery = new BigQuery({

  projectId: projectId

});

var datasetName = 'airquality';

var tableName = 'sensor';

exports.publishBQ = function(event, callback) {

  const msg = event.data;

  let data = Buffer.from(msg, 'base64').toString()

  console.log(data);

  json\_data = JSON.parse(data);

  console.log(json\_data);

  bigquery

    .dataset(datasetName)

    .table(tableName)

    .insert(json\_data)

    .then(function() {

      console.log('Inserted rows');

      callback(); // task done

    })

    .catch(function(err) {

      if (err && err.name === 'PartialFailureError') {

        if (err.errors && err.errors.length > 0) {

          console.log('Insert errors:');

          err.errors.forEach(function(err) {

            console.error(err);

          });

        }

      } else {

        console.error('ERROR:', err);

      }

      callback(); // task done

    });

};

# ADDING FIREBASE AUTHENTICATION AND USER DATABASE

Before we deploy the web application, we must setup the user authentication and user database. For this we use Firebase. Firebase is part of the Google infrastructure but uses a different console (at least for the authentication administration).

1. Goto <https://console.firebase.google.com/>. Login using your Google credentials. From this screen, select add project. Select your previously created GCP project (the same one with the IoT, BigQuery, and Cloud Function). This will essentially merge the GCP and Firebase project into one project with shared billing.

2. Setup Authentication. We will use Firebase authentication to store and handle all of our user account information such as usernames and passwords. Click on Authentication in the menu on the left side of the screen.

3. Setup sign-in method. You can use a variety of sources for sign in method. For our project we use email address for username and require users to setup a password. You can also use Google, Yahoo, Microsoft, and other credentials if desired. Firebase stores the login credentials in a secure manner and the web app utilizes the Firebase API for login verification. There are many options that can be customized for your project; I recommend exploring authentication capabilities and setting up your project to meet the needs of your users.

4. Setup the user database. We will use Datastore for our user database. Datastore is a NoSQL database where we will store our user information. The web app will create a kind (kind is like a dataset) called, “Users.” The following schema will be used to store user properties:

email, first\_name, last\_name, street\_address, city, state, zip\_code, admin (bool)

These properties are strings except for the admin property which is a boolean. Although this is a no SQL DB, it is important that these names be used exactly as outlined here (case sensitive) so the web app can appropriately query the user database.

# DEPLOYING THE WEB APP

1. Install the gcloud command-line tool. This will allow you to type commands in the terminal that are bound to a Google Cloud Platform project. Once the tool is installed, ensure that your project is set as the default. You can check your current settings by using the command:

$> gcloud config list

If your project is currently not set as the active project, you can update project settings by using the following command:

$> gcloud config set project INSERT\_NAME\_OF\_YOUR\_PROJECT\_HERE

2. Create service account. In order for the web application to access BigQuery database and the Firebase tools (credentials and user database) you must create a service account. Creating a service account generates the keys required for an application to access your GCP project.

3. Update the environmental variables. The web application makes use of a .env file that is stored in the airquality\_flask folder. This file is not included in the repository as it has sensitive information required to connect to your project (which is tied to a billing account that when compromised could cost you money).

Create a .env file with the following information in it.

# GCP configuration information - DO NOT ADD TO REPOSITORY

# \_\_init\_\_.py THIS INFORMATION IS FOR FIREBASE

SECRET\_KEY="SECRET\_KEY"

APIKEY="API\_KEY"

AUTHDOMAIN="AUTH\_DOMAIN"

DATABASEURL="DATABASE\_URL"

STORAGEBUCKET="BUCKET\_URL"

SERVICEACCOUNT="PATH\_TO\_JSON\_FILE.json"

# routes.py

PROJECTID=’PROJECT\_NAME'

DATASETID='airquality'

TABLEID='sensor'

BIGQ\_SENSOR=’PROJECT\_NAME.airquality.sensor'

MAIL\_SERVER=’ENTER\_MAIL\_SERVER\_URL’

MAIL\_PORT=PORT\_NUMBER

MAIL\_USERNAME=’USER\_NAME’

MAIL\_PASSWORD=’PASSWORD’