**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.

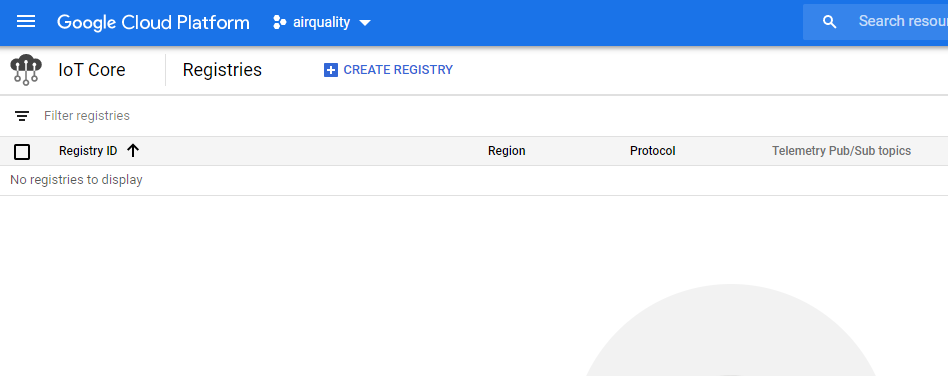
Start by creating a new project in GCP and enable billing. This is simple and will take about 5 minutes. Be aware this project will cost money to operate. With 1-50 sensors with light web app access the cost will be about $30 per month.

# 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.

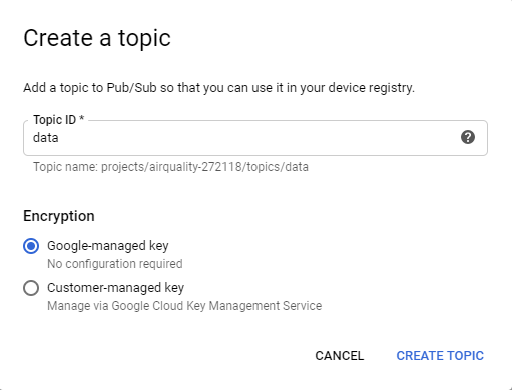
First, click on the menu in the upper left-hand corner, scroll down and select IoT Core. Start by enabling the API which will allow you to get started.

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:

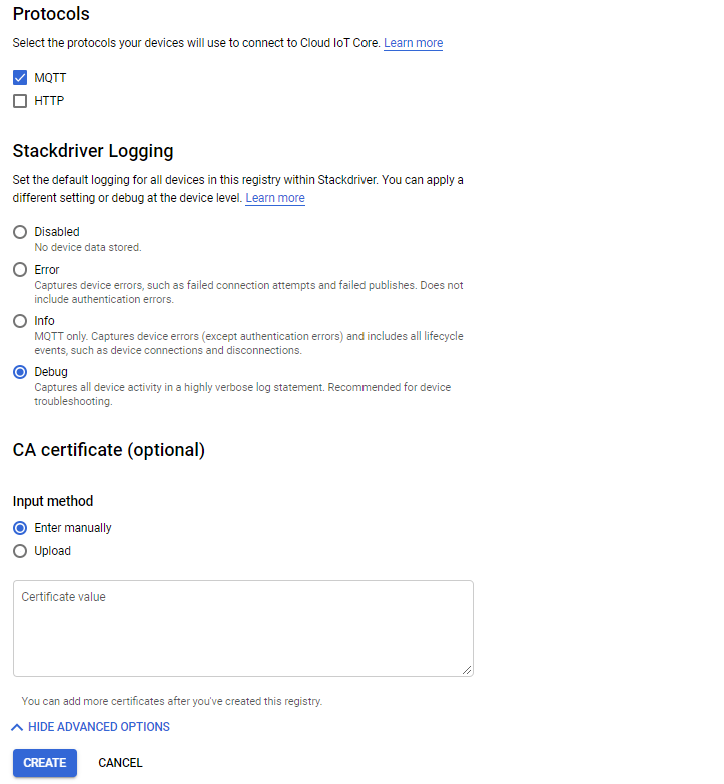
a. Protocol: MQTT

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.”

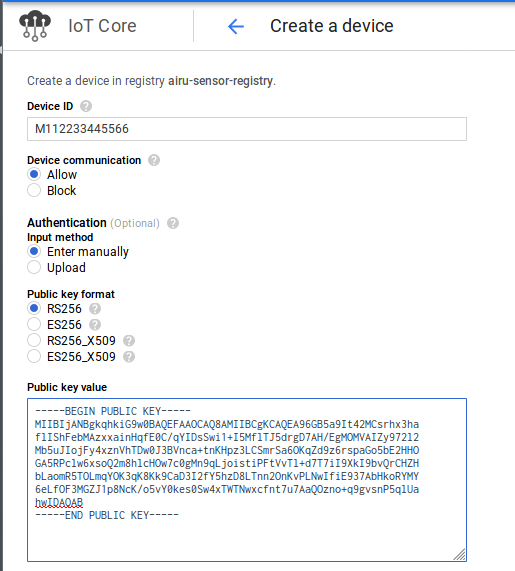
3. Select “airu-sensor-registry.”

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

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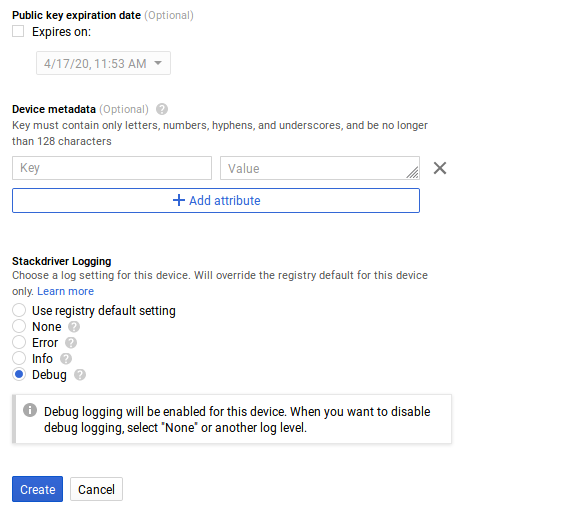
6eLfOF3MGZJ1p8NcK/o5vY0kes0Sw4xTWTNwxcfnt7u7AaQOzno+q9gvsnP5qlUa

hwIDAQAB

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

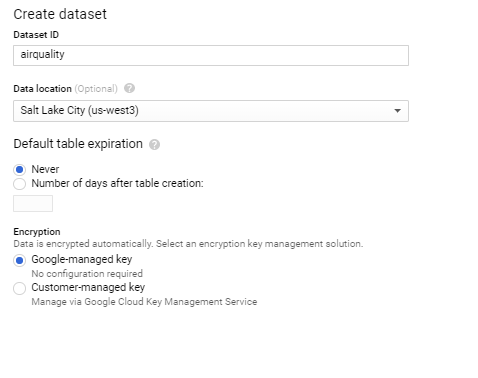
8. Finish filling out the form using the settings provided below and then select “Create.”

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

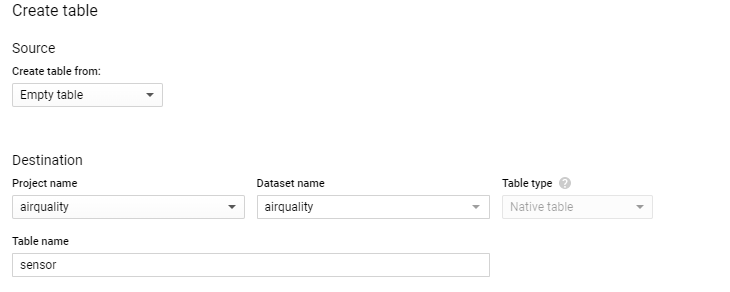
Next, we will create the BigQuery DB table. From the menu in the upper left-hand corner of the GCP console, scroll down and select BigQuery. We need to first create a dataset and then we can create a table. Double click on the project name under the Resources section and then click on the create dataset 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.



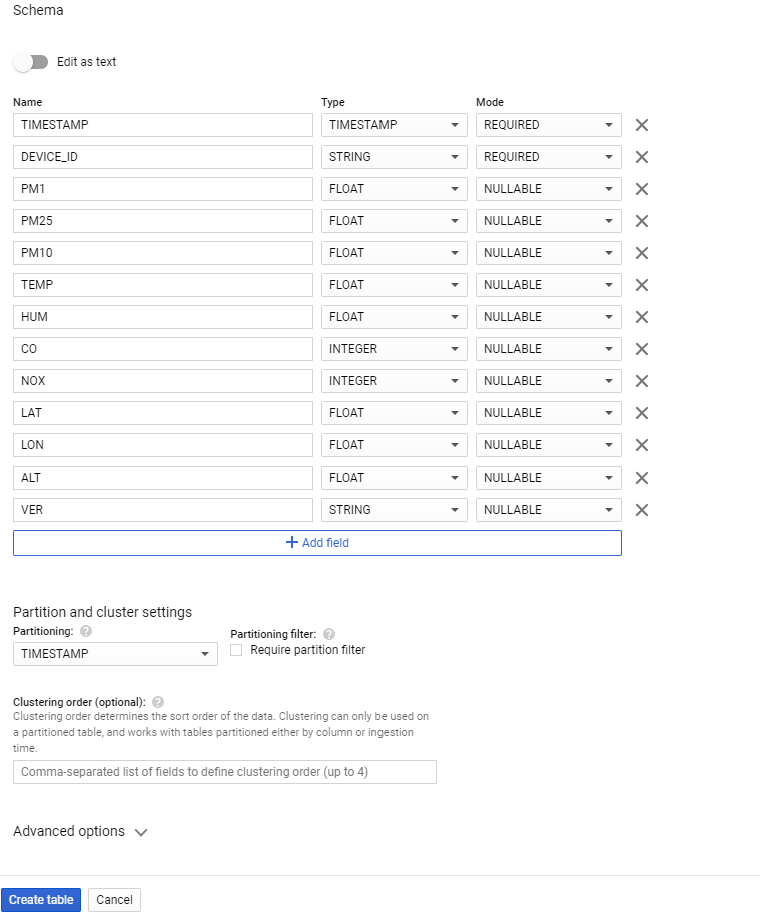
With the dataset created we can now create the table where our sensor data will be stored. BigQuery table fields cannot be deleted after creation so it is important that you do not create fields you do not intent to use. You can always add fields to your schema at a later time if you don’t get everything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

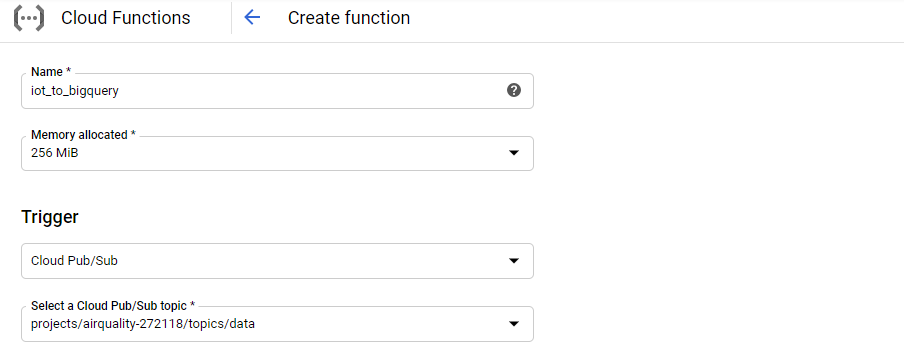


Create the following schema and partitioning setting for your table. Once complete select the create table button. Your table is now ready for sensor data.



# 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

    });

};