Sreenidhi Hub <sreenidhihub@sreenidhi.edu.in>

Fwd: IOT Project Nucleonix - Documentation

1 message

Dr. Ameet Chavan <ameetchavan@sreenidhi.edu.in> Thu, Mar 5, 2020 at 4:14 PM
To: Sreenidhi Hub <sreenidhihub@sreenidhi.edu.in>

---------- Forwarded message ---------
From: **Varun Rastogi** <varunrastogi2007@gmail.com>
Date: Sat, Dec 9, 2017 at 12:28 PM
Subject: IOT Project Nucleonix - Documentation
To: Dr. Ameet Chavan <ameetchavan@sreenidhi.edu.in>

Hello Sir,

Please find attached.

Warm Regards,
Varun Rastogi

--
Thanks,

Dr. Ameet Chavan | अमित चव्हाण | అమిత్ చవాన్
(B.E. (Pune Univ.), M.S., Ph.D. (Univ. of Texas ELP))
IEEE Senior Member
Professor & Dean (Innovation and Research)
School of Electronics (ECE)
Sreenidhi Institute of Science and Technology (SNIST)
https://www.researchgate.net/profile/Ameet_Chavan2

IOT PROJECT DOCUMENTATION.pdf
3450K

RADIATION DETECTOR
INSTRUMENT AUGMENTATION AS AN
IOT ENABLED DEVICE

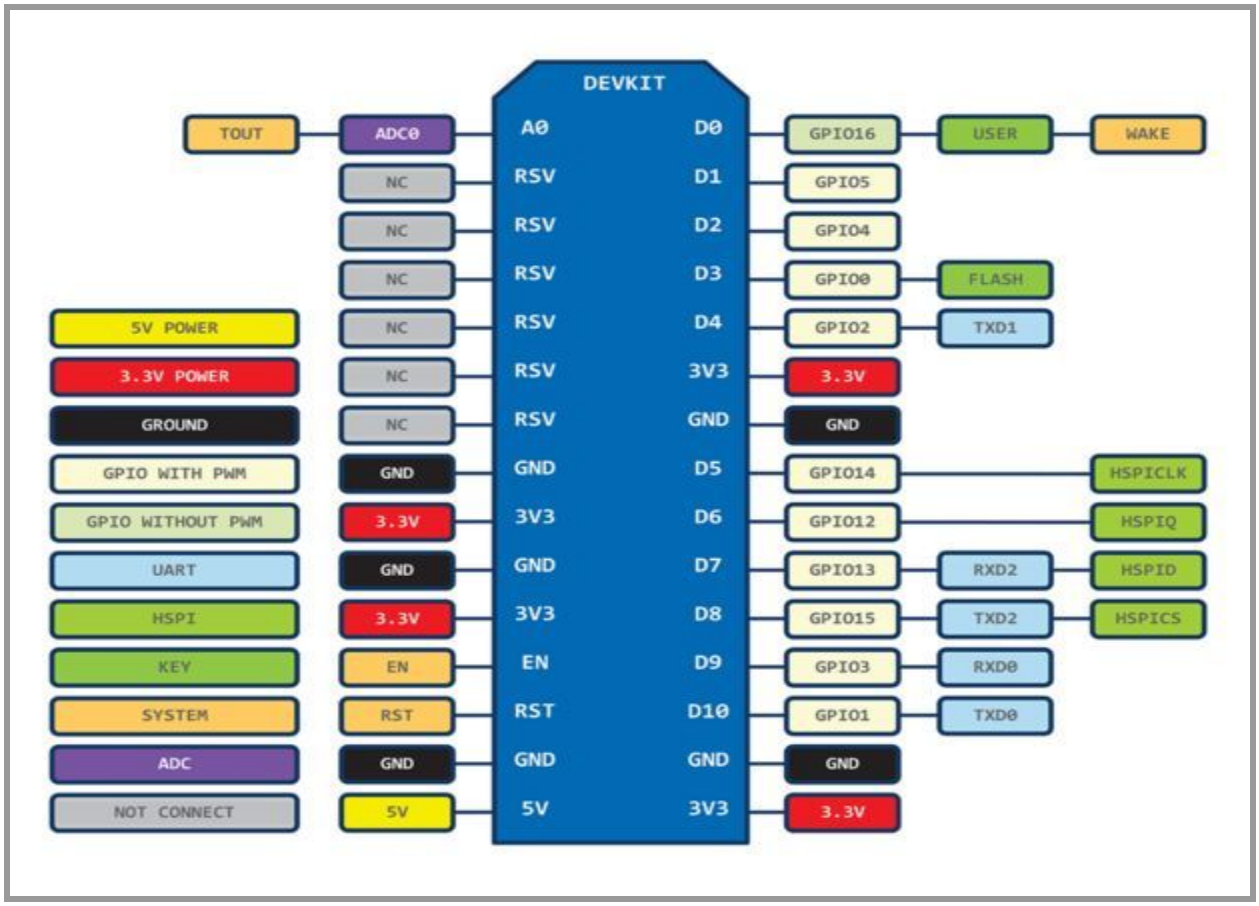
Chapter 1: Prerequisites

NodeMCU

Introduction

In this Project NODE MCU is the device which is going to read the data from the Detector's Processor/Controller Chip and Send it to the cloud via the Wifi that it is configured to access.

ESP-12E Pin Mapping



The Pins we will be primarily concerned with , will be that of power and communication (RX and TX)

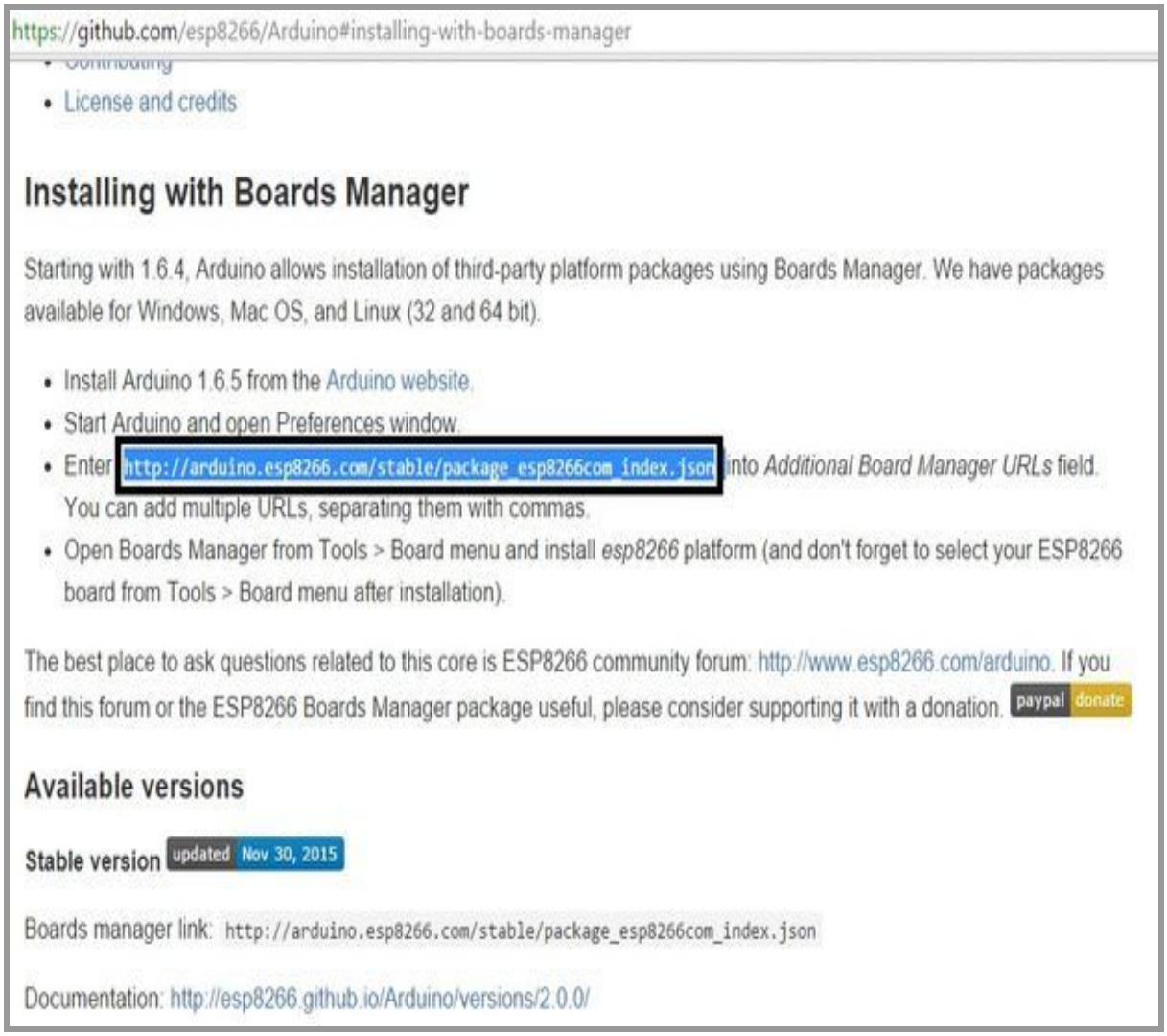
Setting up Arduino for Programming NODE MCU

Step 1: Install Arduino

Latest version of arduino software will be available in the software section of arduino.cc website.Below is the link to download the latest software.
https://www.arduino.cc/en/Main/Software

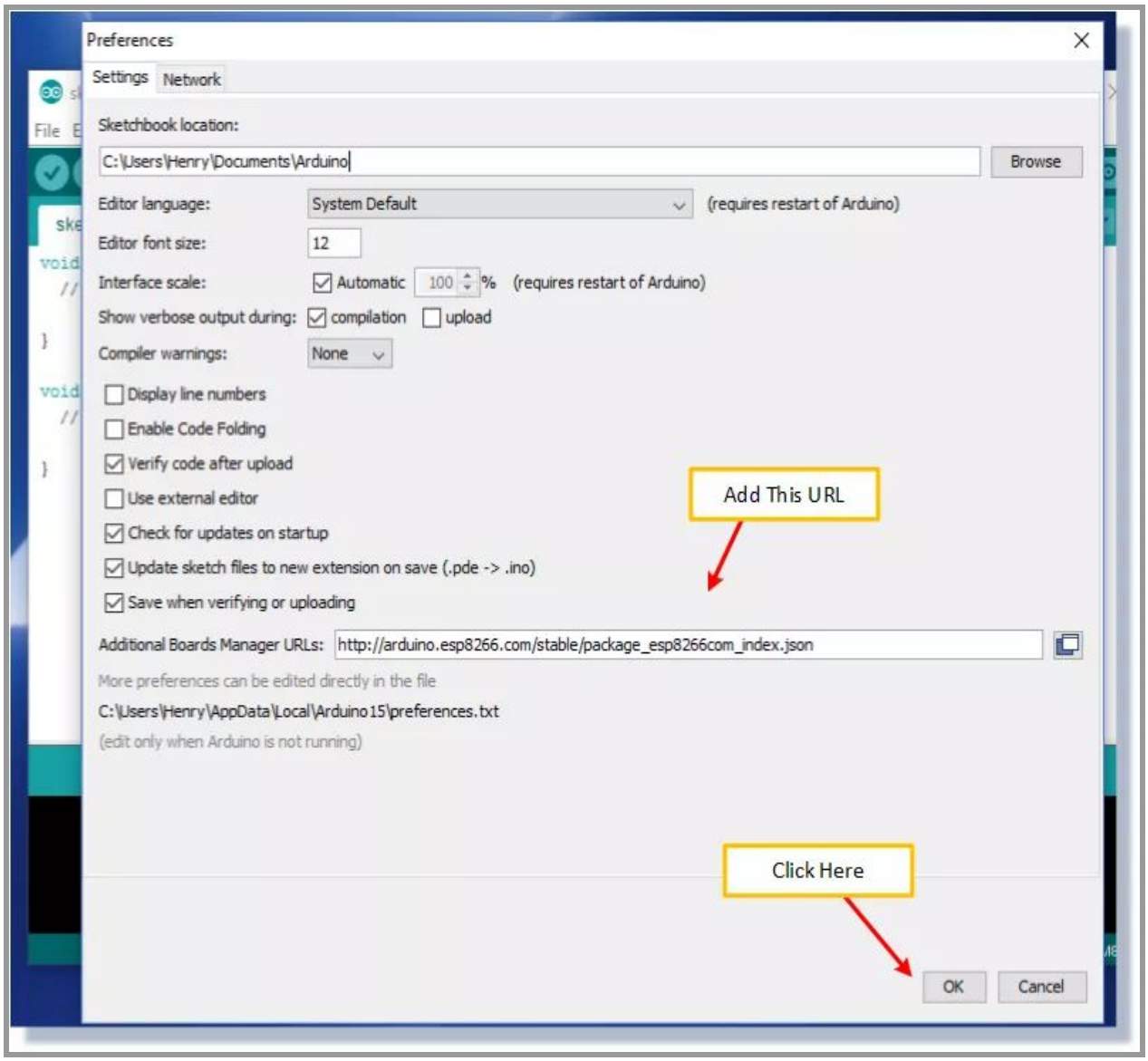
Step 2: Installing Arduino Core for NodeMCU ESP-12E Using Arduino Boards Manager.

NodeMCU packages for arduino can be installed from the below link.
https://github.com/esp8266/Arduino



Copy the link highlighted in the above figure.

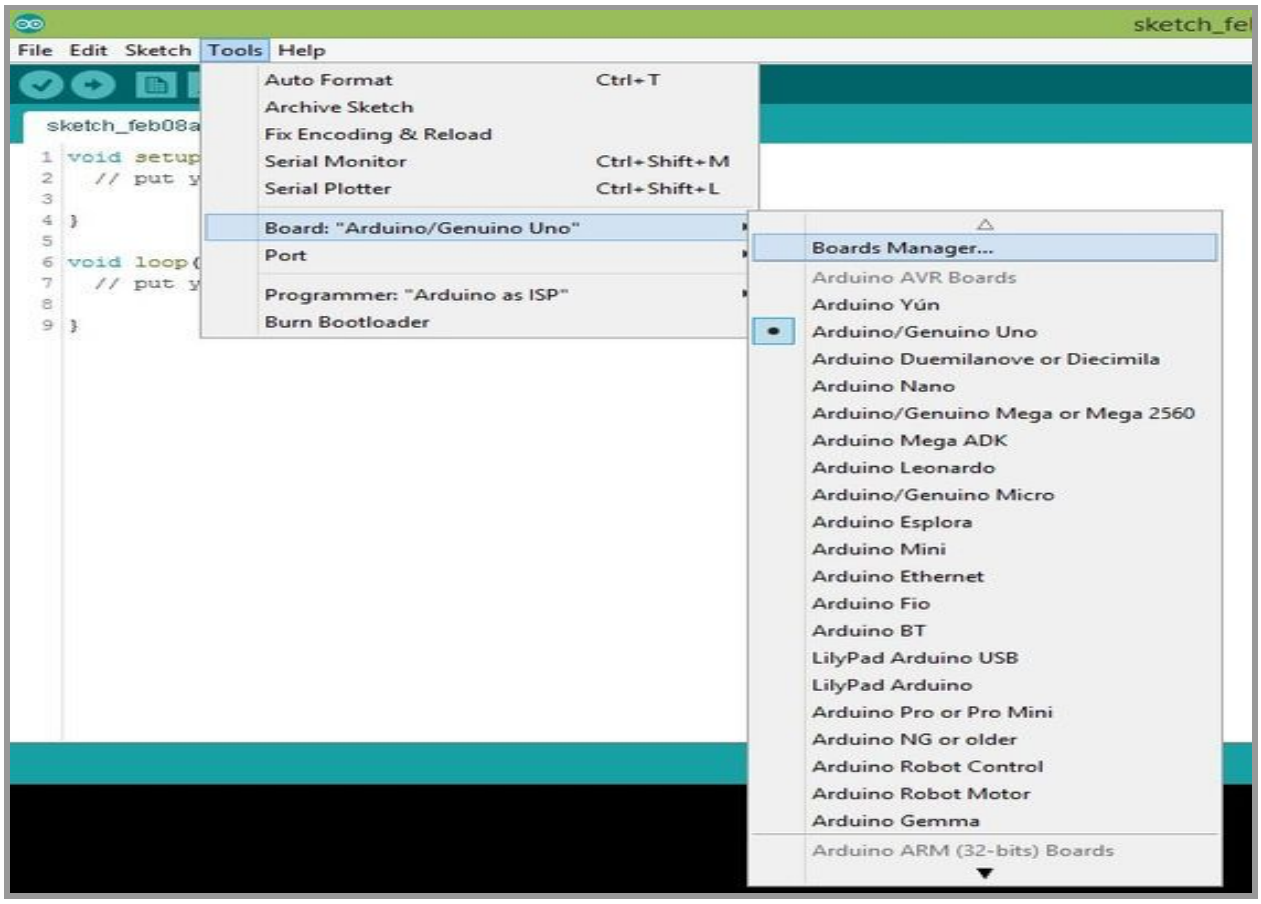
Step 3: Insert Link for .json NodeMCU Package Files Into Arduino IDE

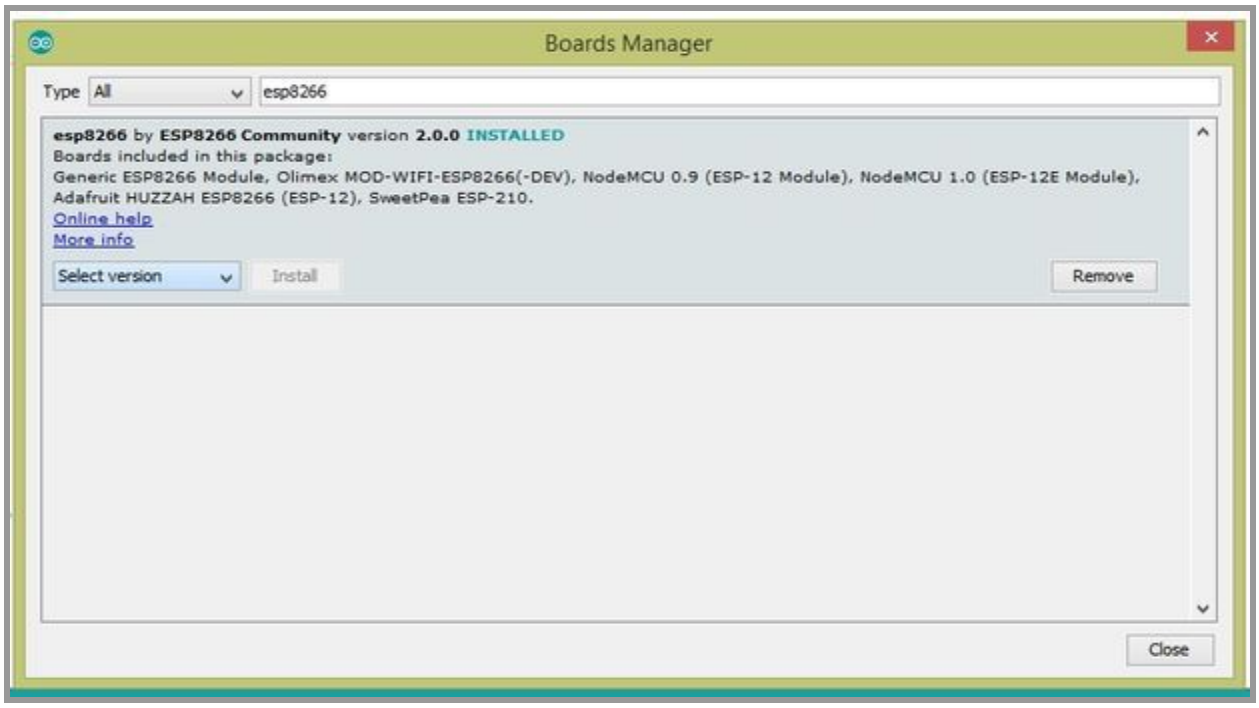


*Paste the copied link into Arduino IDE using following sequence *File menu -> Preferences-*

*Paste copied link into the URL area shown in above image. Close and restart the Arduino IDE.

Step 4: Tools - Boards Manager

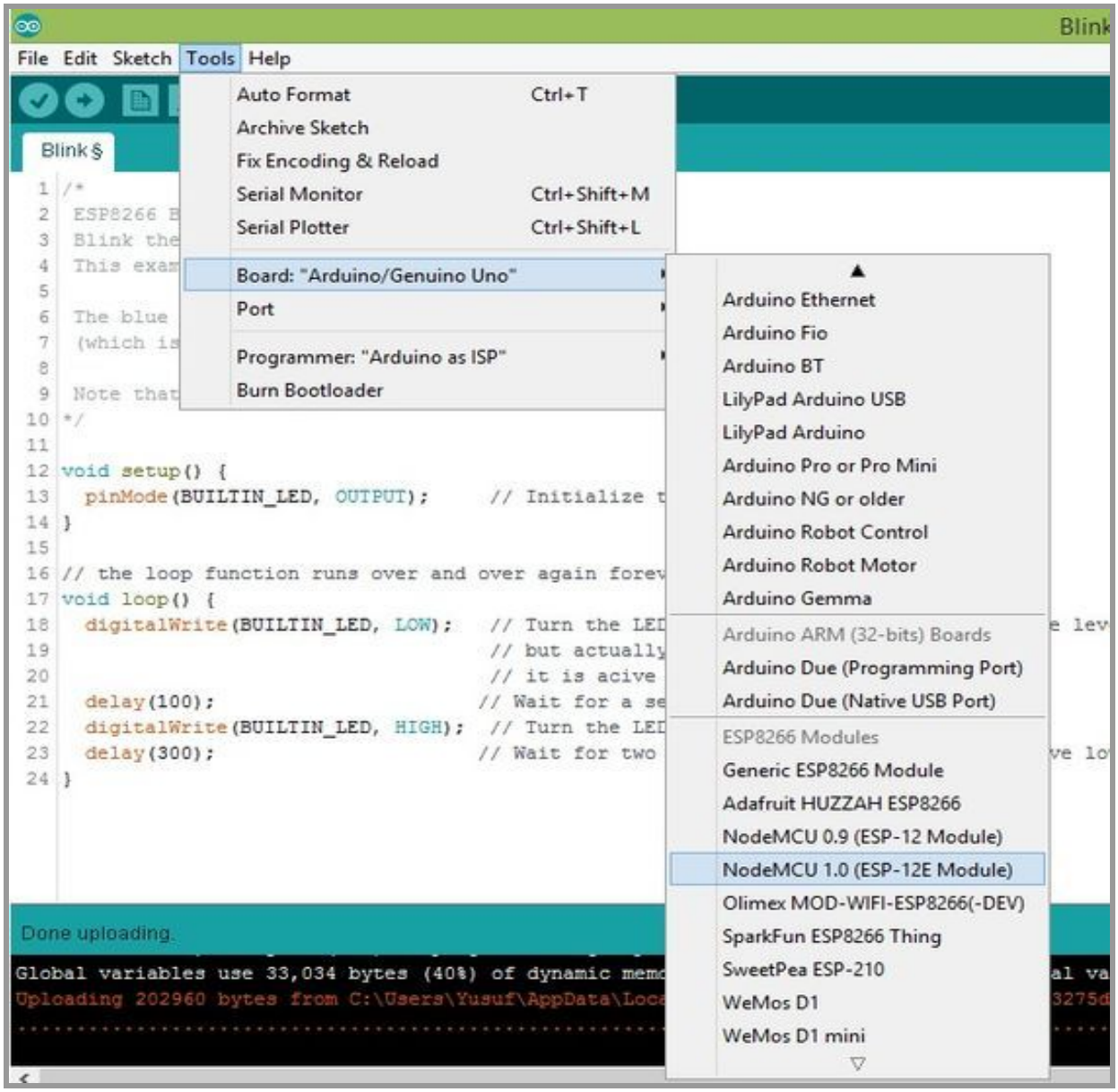


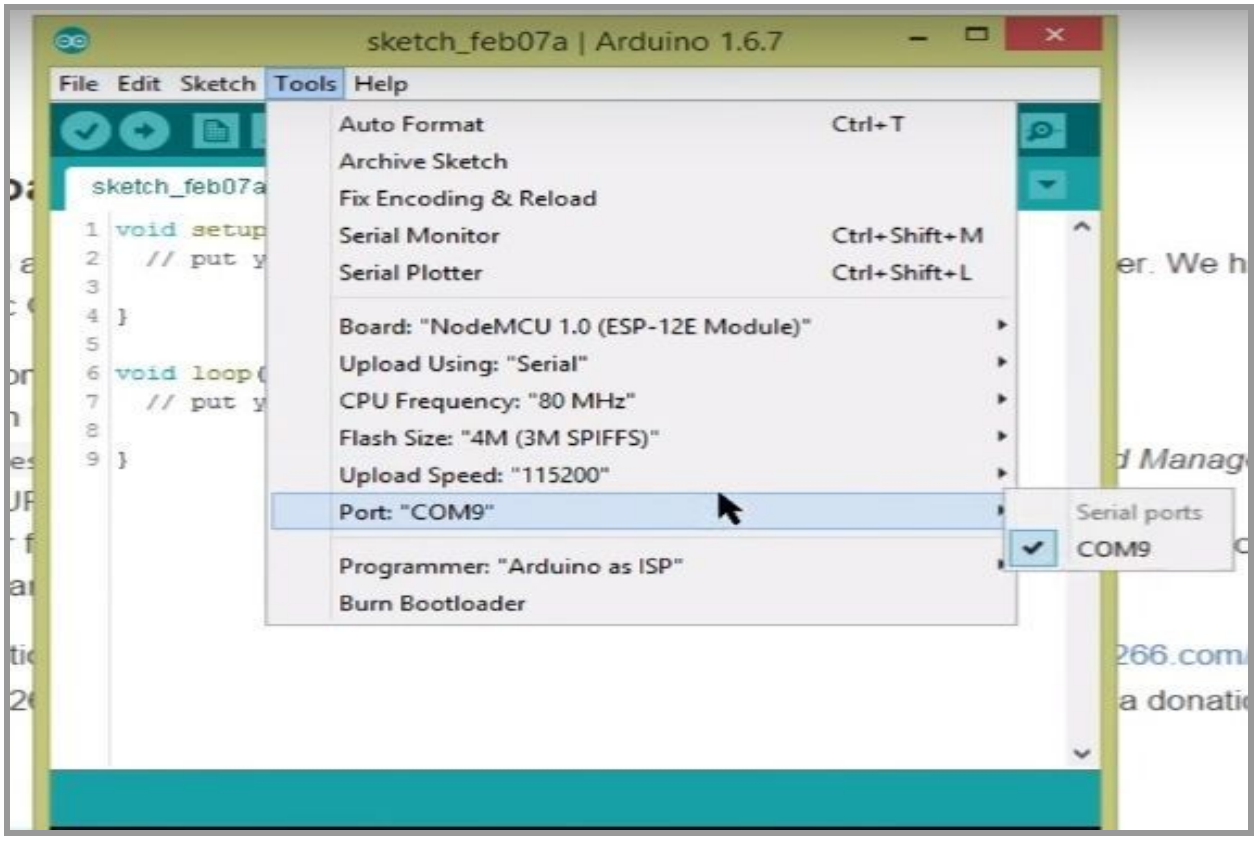


Tools ->Boards manager and search for ESP8266 and install the libraries/files given under heading *ESP8266 by ESP community*.

Restart the Arduino IDE once again.

Step 5: Selecting NodeMCU Board in Arduino IDE





Go to *Tools - Boards* (scroll down the list of boards) - Select *NodeMCU 1.0 (ESP-12E Module).*

Select the *Port* number at which you have connected nodeMCU.Remove and plug the usb cable attached to NODE MCU again if it shows error in opening COM PORT. Rest of the settings can be left to default values.To know the COM port go to Device manager in your computer and your device appears under COM port section.

Setting up the Azure Cloud System

Introduction

The Cloud that we are using is the Microsoft Azure Cloud and in that we are using three components

- Azure IoTHub
- Stream Analytics
- Azure Table Storage.

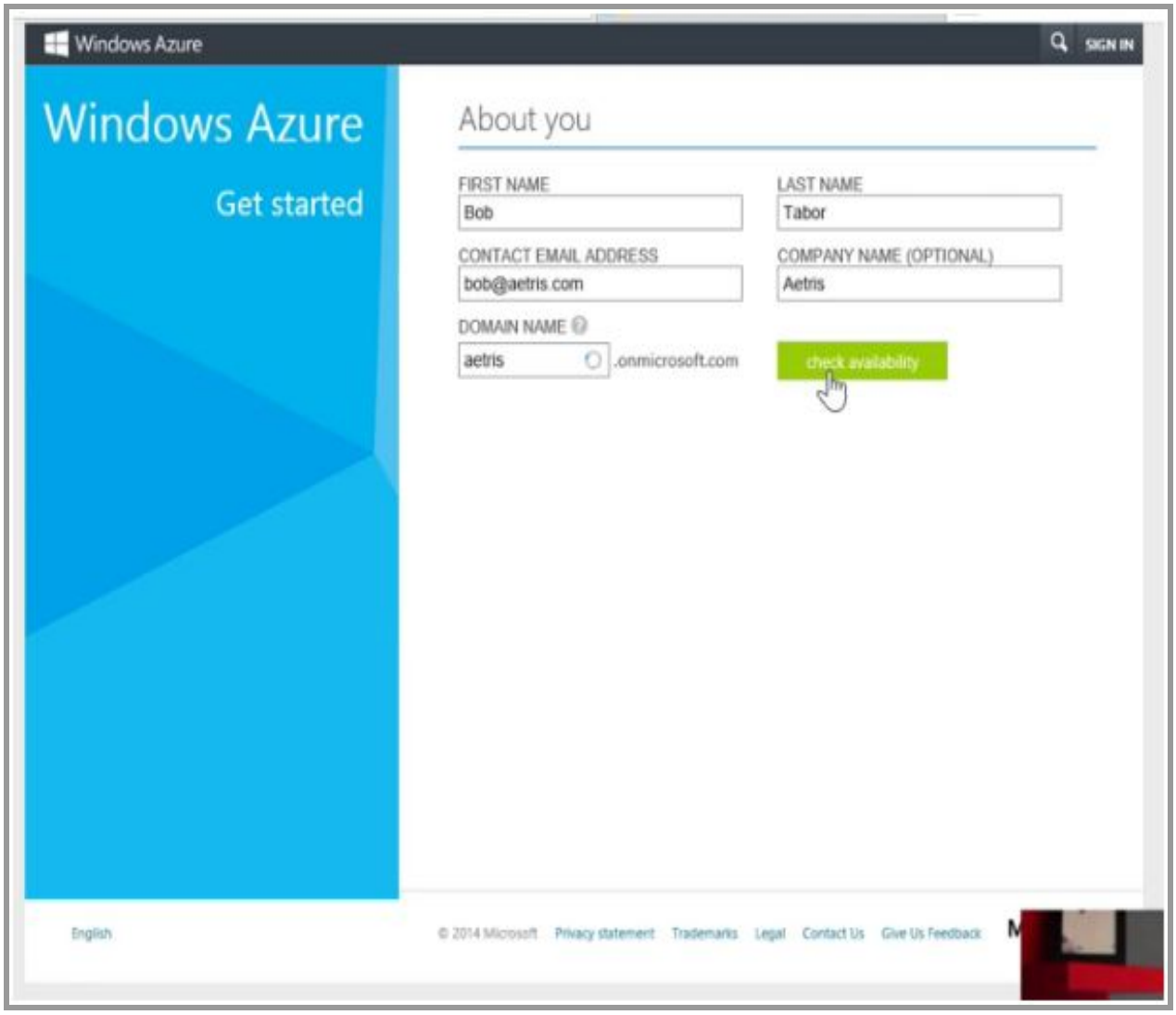
Azure IoTHub accepts data from various physical devices and stream analytics is process that sends the data to Power Bi (*Refer Next Section which talks about setting up a power bi account*) where it is visualized . We are further using Azure table Storage to enable configuring of devices based on user input.To use all these components we have to sign up for an azure organizational account and further create personalized instances of these components in our account which is shown in the following steps.

Step1:Create Microsoft Azure Organizational Account

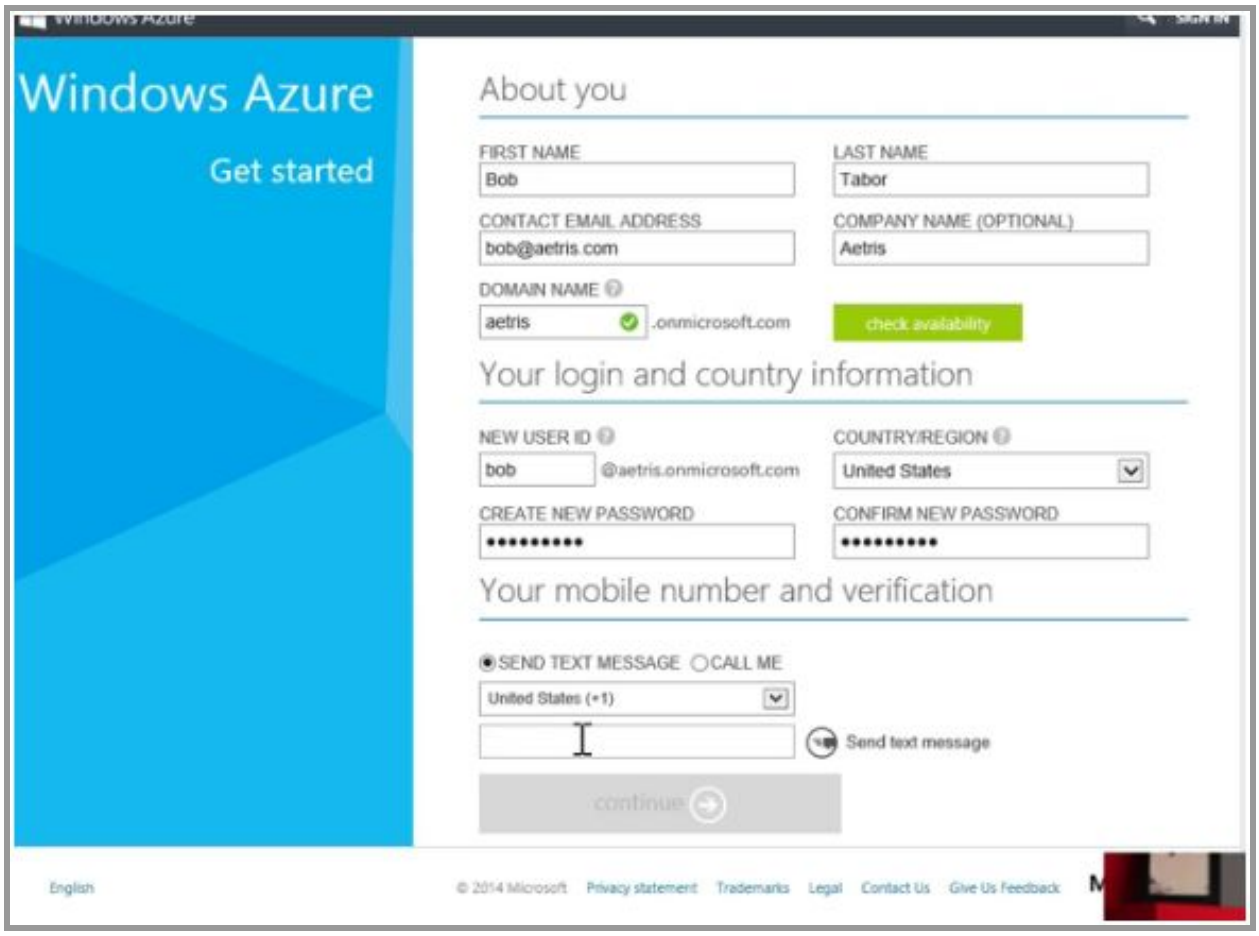
Go to https://account.windowsazure.com/organization.

Further steps are as follows

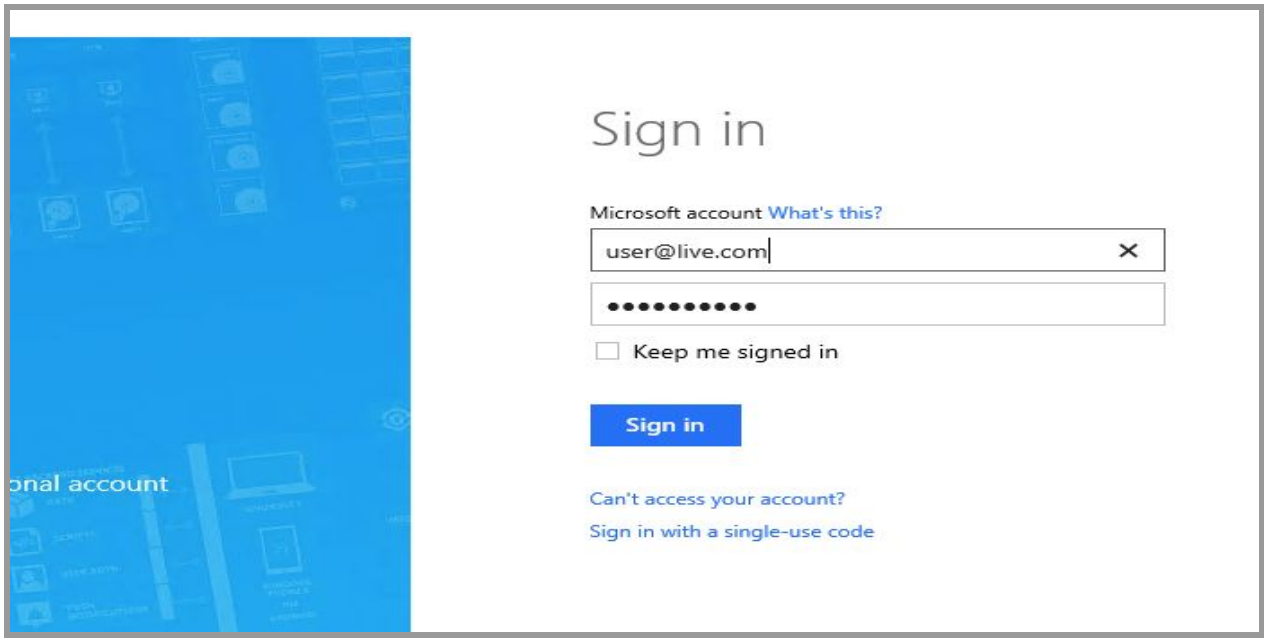
We fill in details like name , email , company name and a domain name of our choice (based on availability all email ids of the company can be linked to this domain)



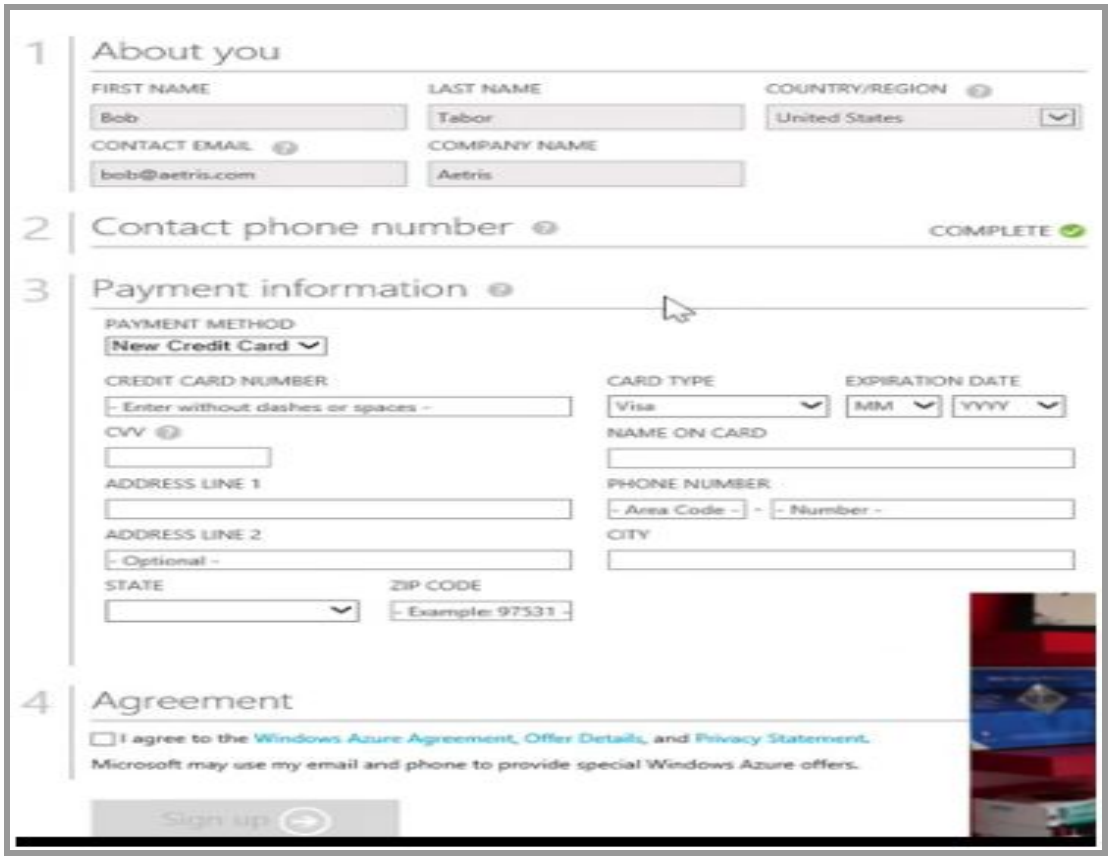
Soon after availability check
We create a user id and password and get verified by phone number.



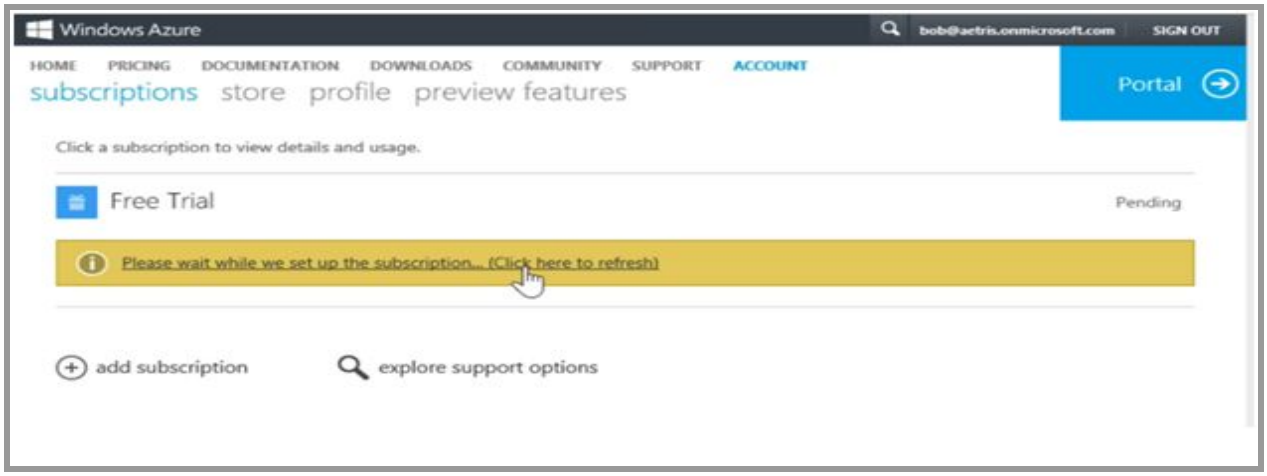
After that we login with the account and password that we have created in the previous step.



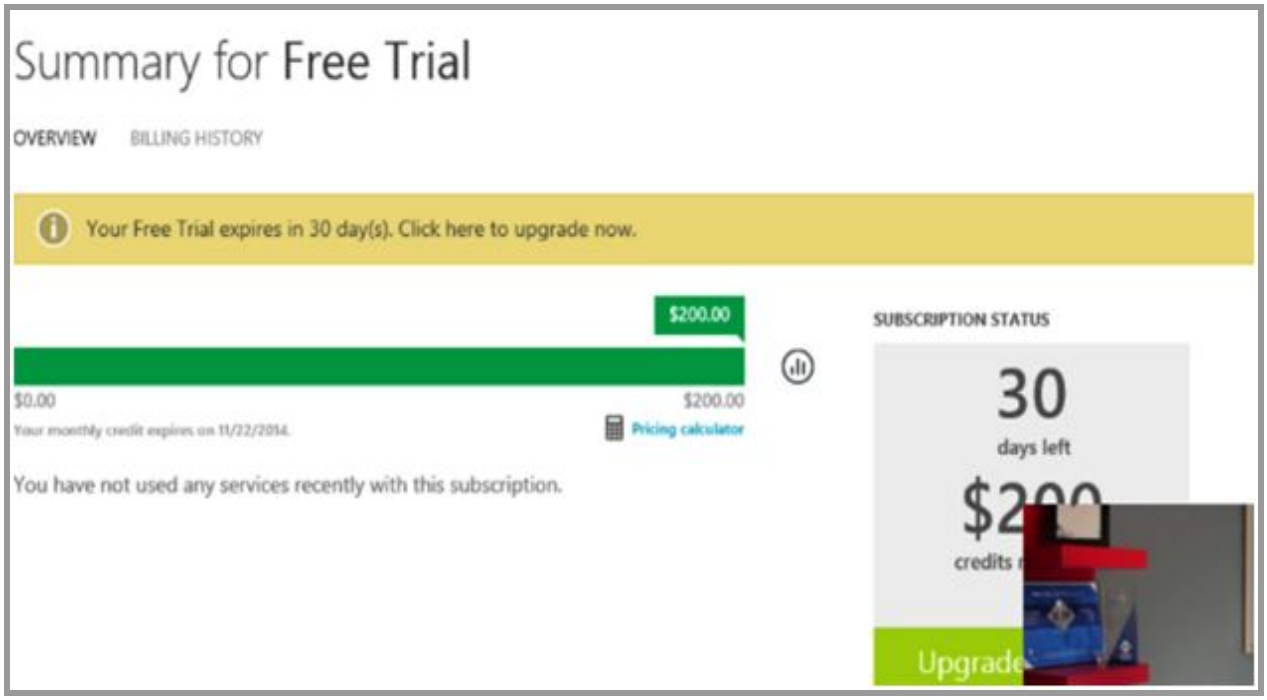
After that we provide some financial details.



It takes some time to initialize our free subscription



Once done the following screen shows up.



This shows our thirty day free trial subscription and credits.

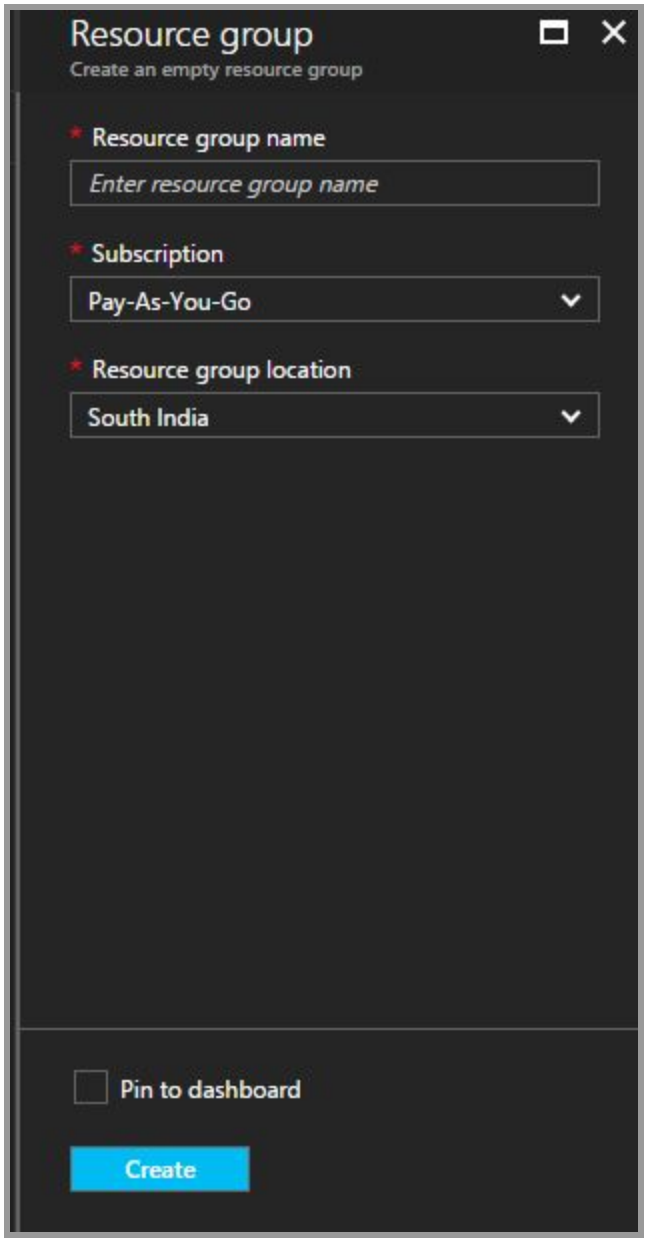
References for step 1:

---------In the last part of this blog (In the heading **Create Organization Account from Scratch**)
https://blog.codingoutloud.com/2014/01/24/stupid-azure-trick-2-how-do-i-create-a-new-organizational-account-on-windows-azure-active-directory-without-any-existing-accounts-or-ea/
---------In this video
https://channel9.msdn.com/Series/Microsoft-Azure-Fundamentals/06

Step 2 : Setting up a Resource Group

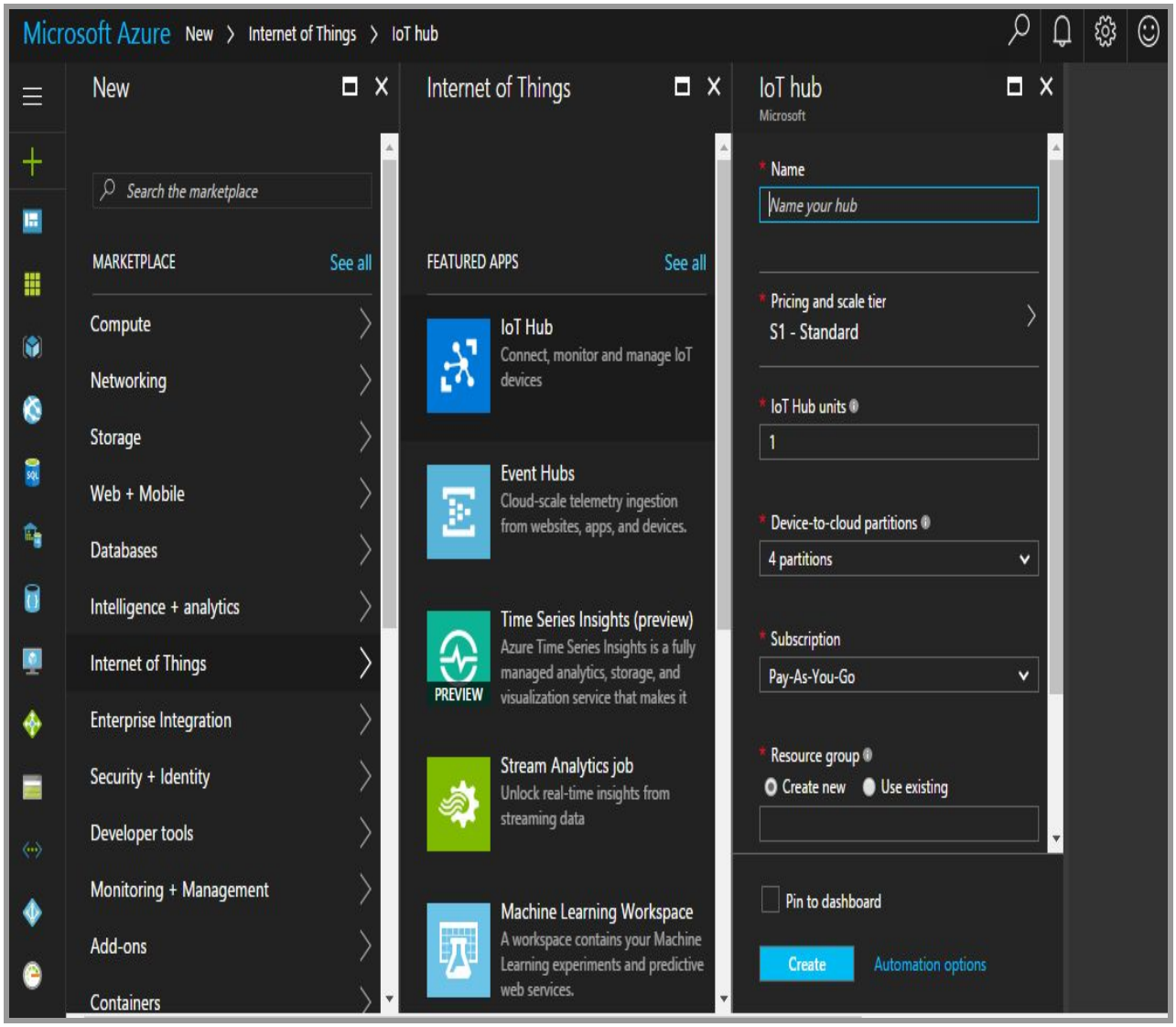
A resource group is a Azure entity which is used to group all the other entities related to a project together. Resource groups decrease confusion when there are multiple projects using multiple entities deployed over the same Azure account .

To create a resource group we go to Azure Dashboard, New -> Resource Group and fill in details as shown in the screenshot below.



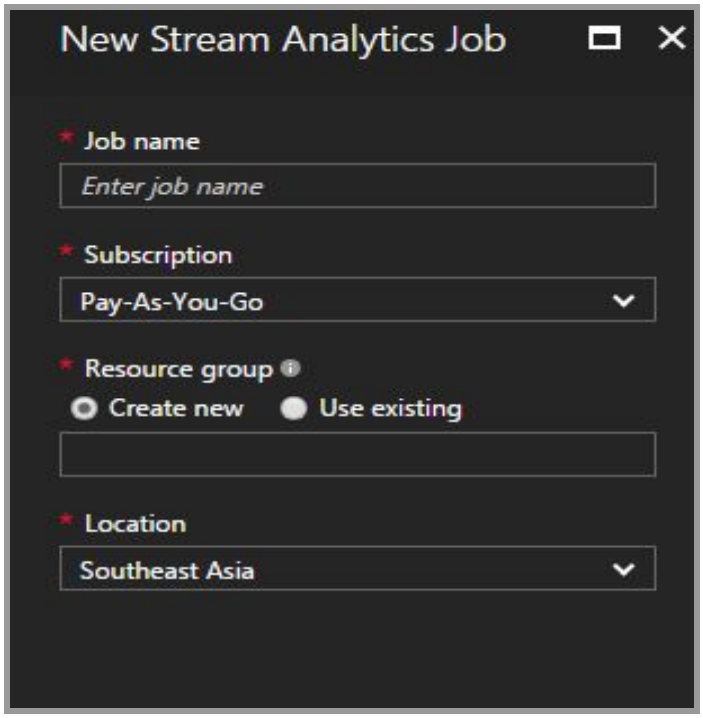
Step 3 :Create IoT Hub

Login to your Azure Account
Click on New->Internet of Things->IoT Hub . Give a unique name to the iot-hub and then click ok.
While creating choose the location closest to you i.e, in our case SouthEast Asia.

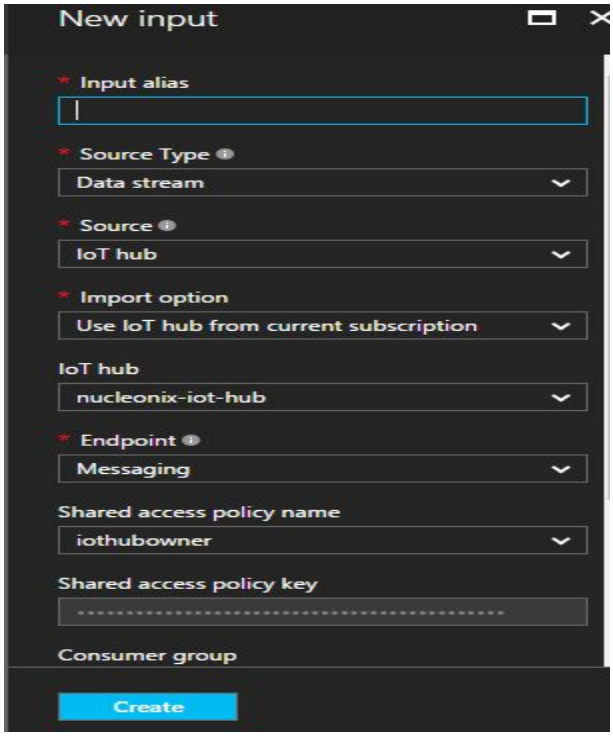


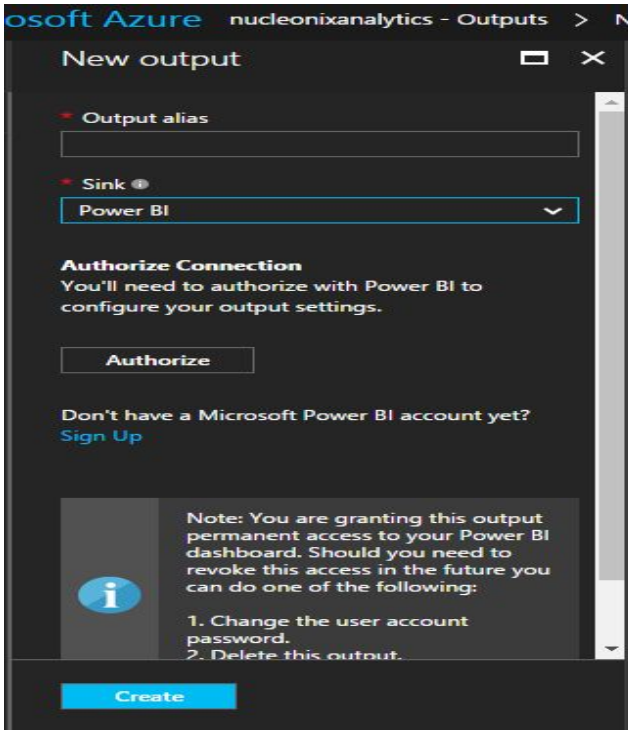
Step 4 :Creating Stream Analytics And Configuring Its Inputs and Outputs

Click on new---> Select Stream Analytics ----> Give the Stream Analytics a Unique Name and choose the location which is closest to our geographical location.



Then Choose Input as the Iot Hub that we created and Output as Power bi account that we are using to see visualization of data.

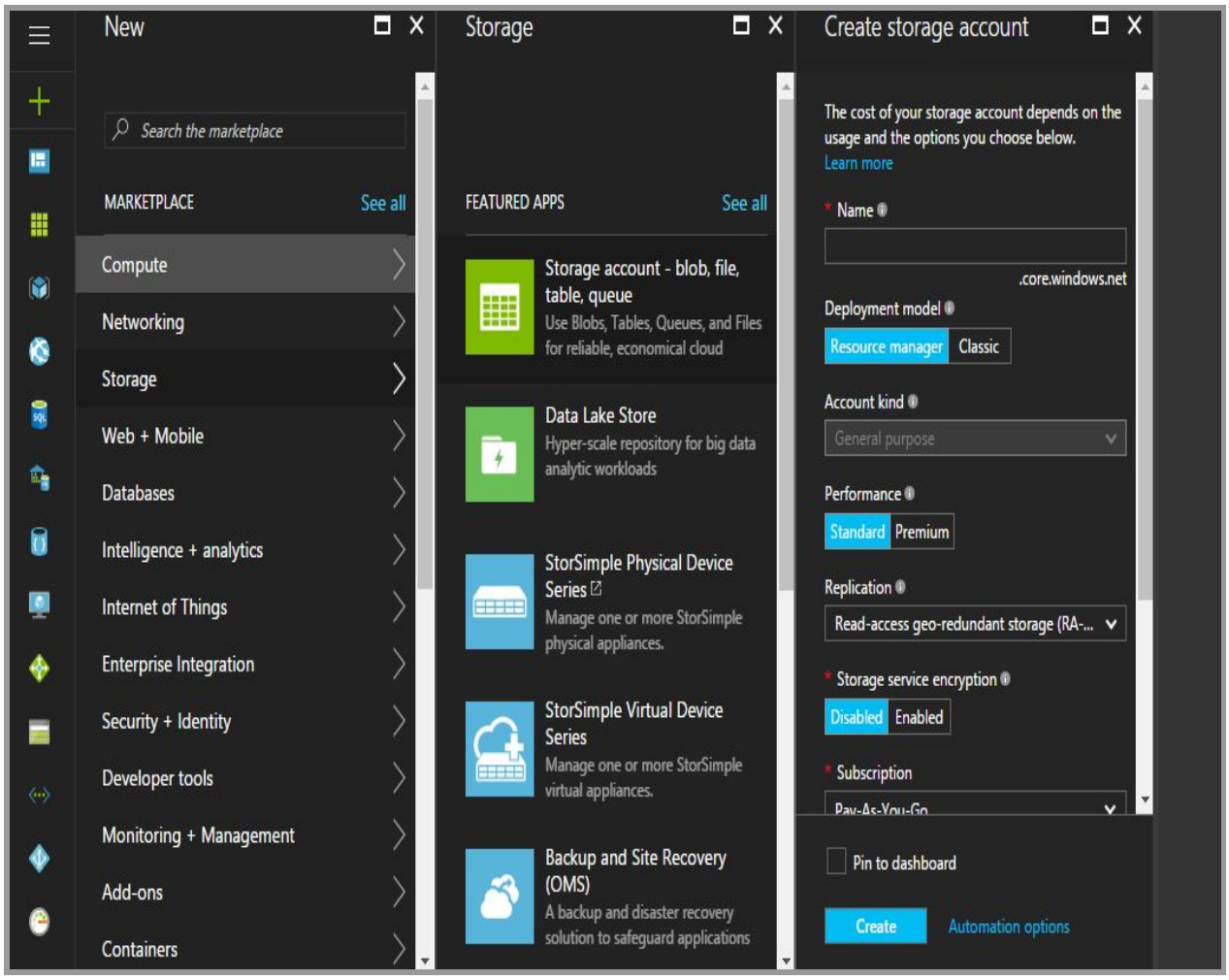




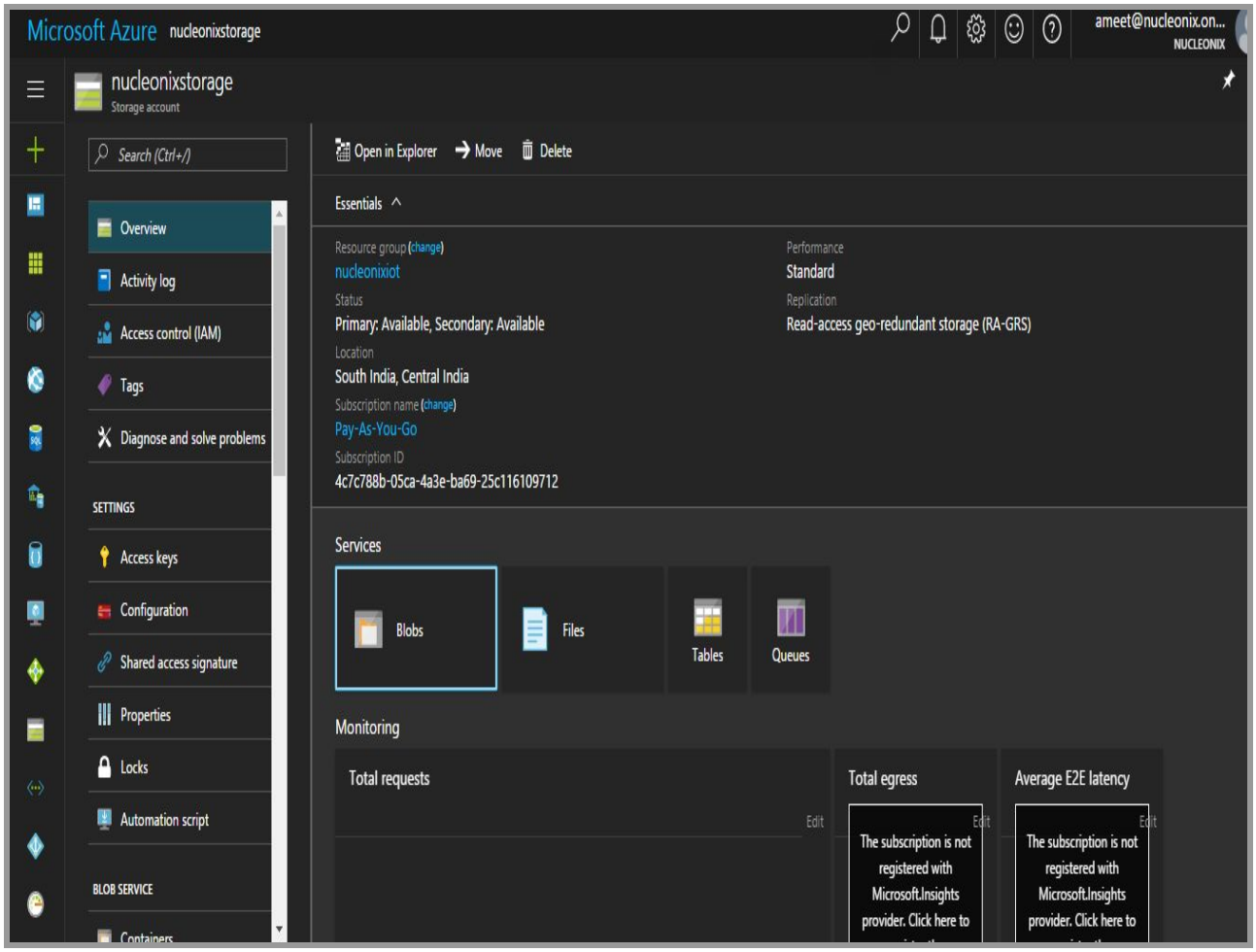
Here input indicates the Input to the stream analytics that is coming from iot-hub.Give it a unique name (This is the name we should be using in our stream analytics query)and choose Source as IoT Hub.Then click Create.

Here output indicates the output from Stream analytics to Power BI visualization tool((*Refer Next Section which talks about setting up a power bi account*).Outputs can be multiple for multiple devices.Select Sink as POWER BI.Sink indicates the destination.Then click Authorize and sign in using power bi account.

Step 5 :Creating Azure Storage table instance



Go to new instance and select storage then choose storage account-blob.table,queue.Later choose a unique name for your storage account and before proceeding ensure that you have chosen nearest place under location column.Then press create.



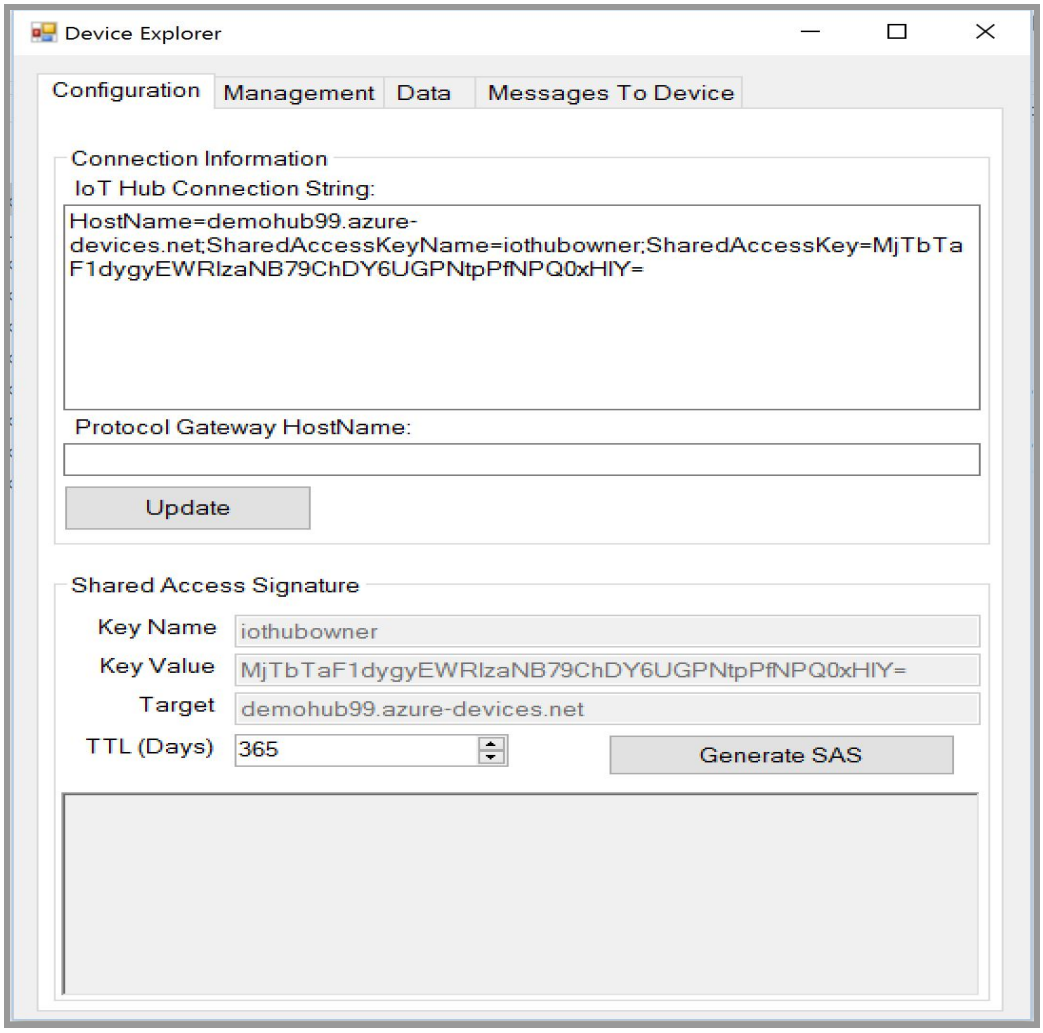
Once you have created storage account instance for azure table ,go to dashboard and you will find storage account there.Click on the storage account to create and view the tables.

Step 6 :Downloading Device Explorer and Storage Explorer

Device Explorer is an open source tool used to add and authenticate devices which can connect to your Iot Hub. Further in the document we show how it is used to setup and monitor devices.
Download the latest SetupDeviceExplorer.msi file from the below link and install it.

https://github.com/Azure/azure-iot-sdk-csharp/releases

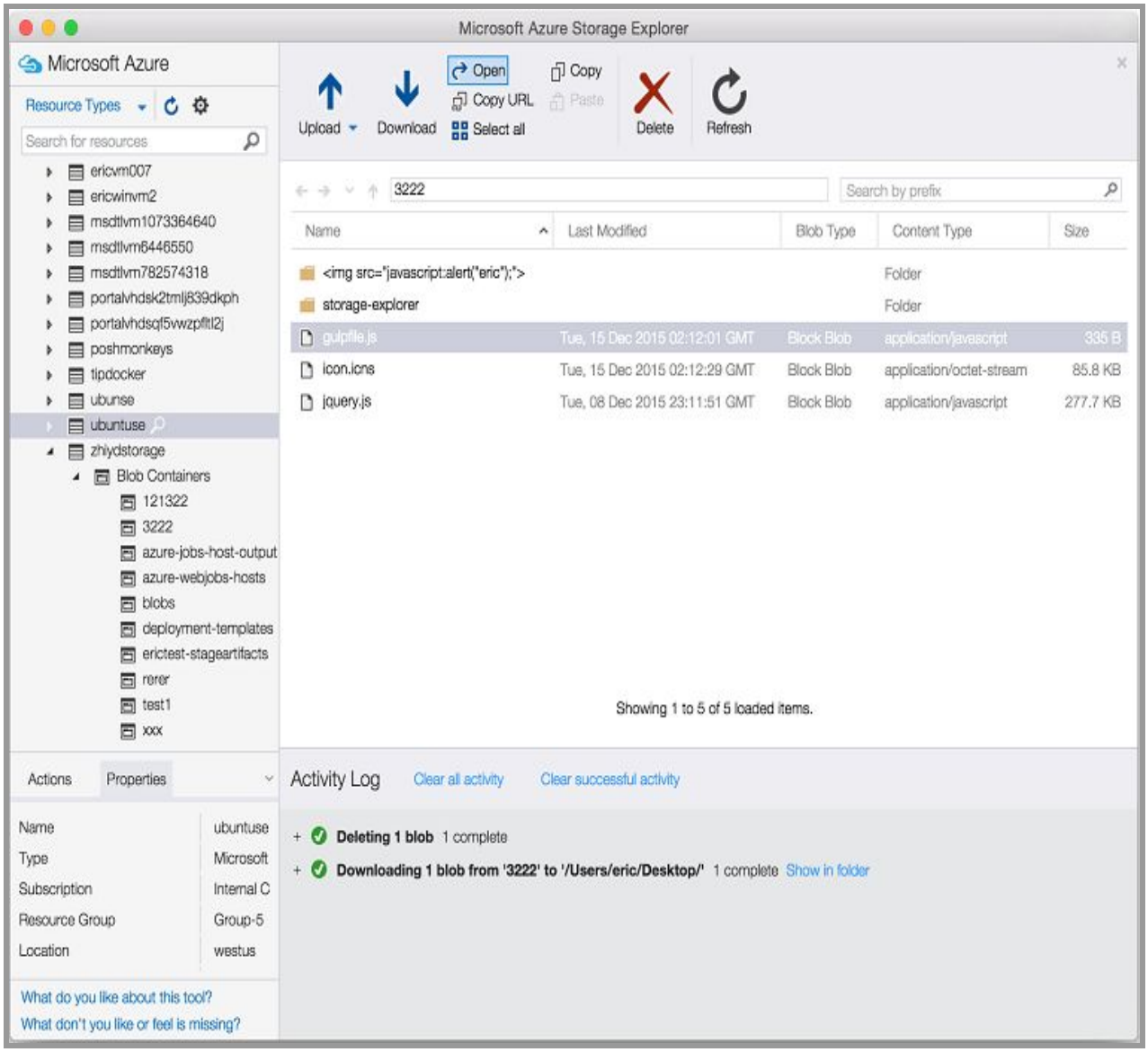
When you open Device Explorer it should look like the figure below.



Azure Storage Explorer is a Microsoft software that can be used to modify data in the Azure Table Storage.In this project it acts a configuration control which is being used to change parameters on the Device remotely by changing the input table as well as get updates as new rows come in the Upgradation and Calibration table whenever the device needs upgradation or calibration.

Download Azure Storage Explorer from the link below
http://storageexplorer.com/

Once installed the Software should look like this



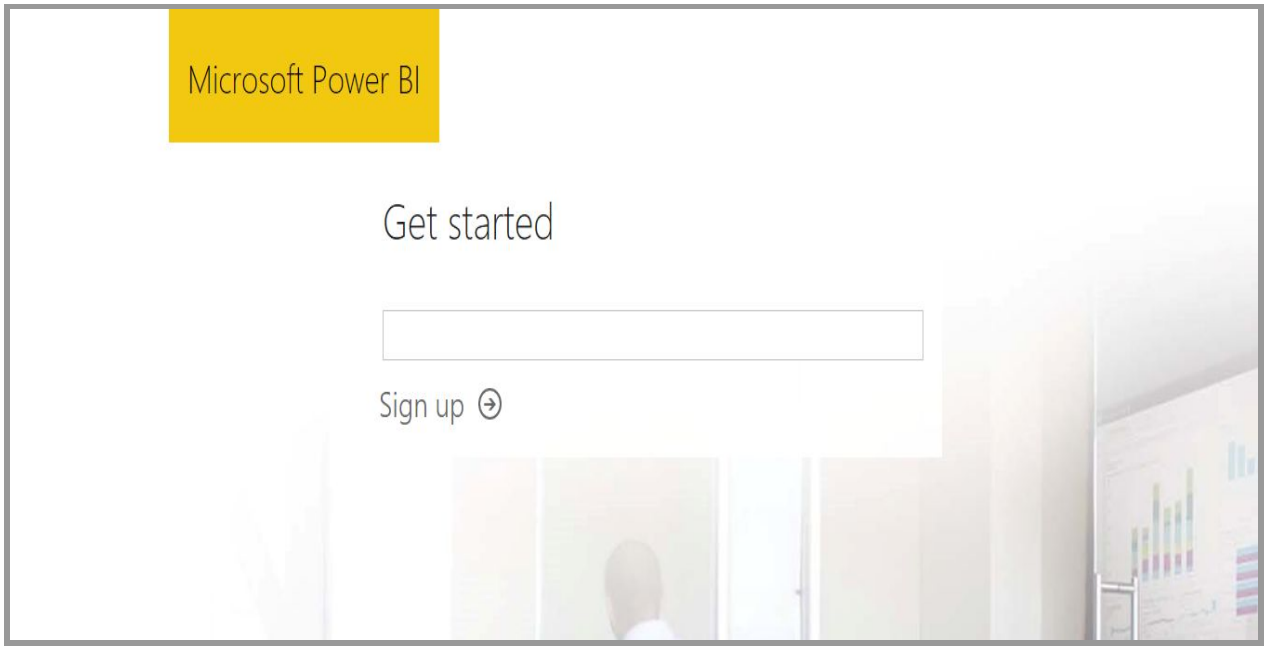
Step 7 :Setting up Power BI

Introduction

Power bi takes data from stream analytics and helps us in visualizing data and configuring alerts for that data as required.

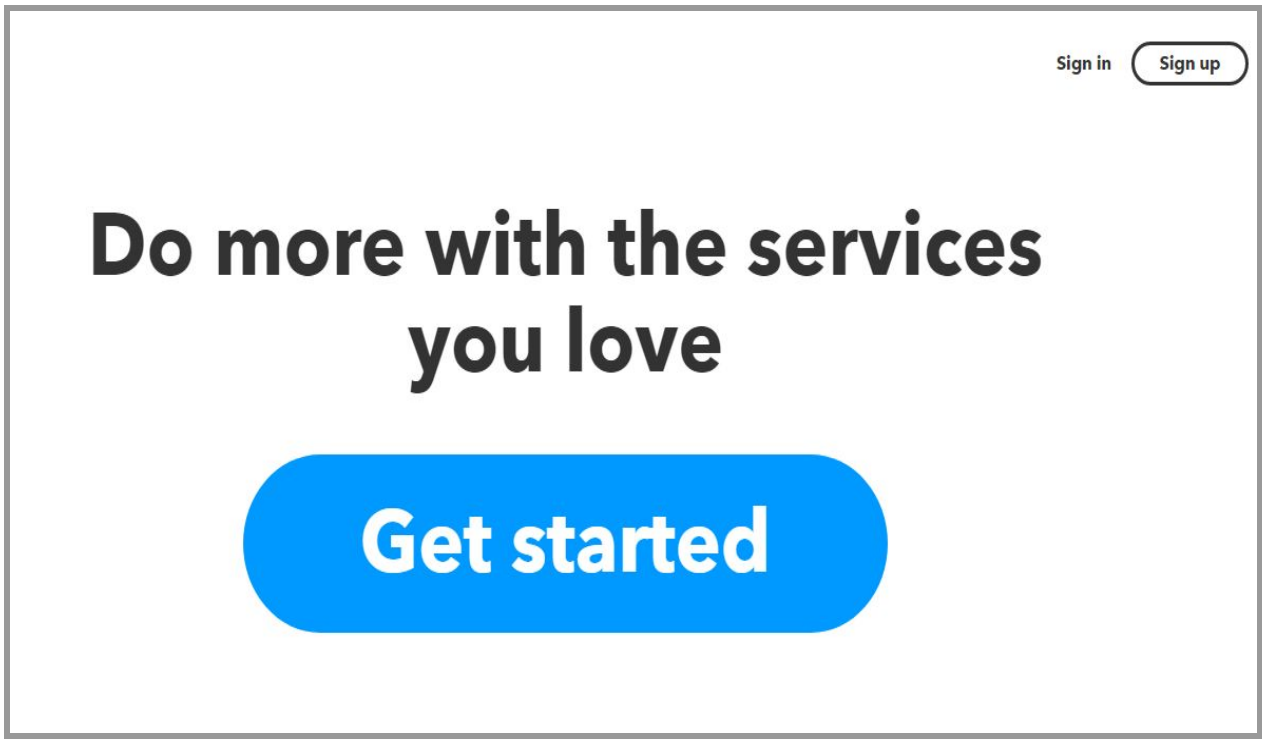
Registering

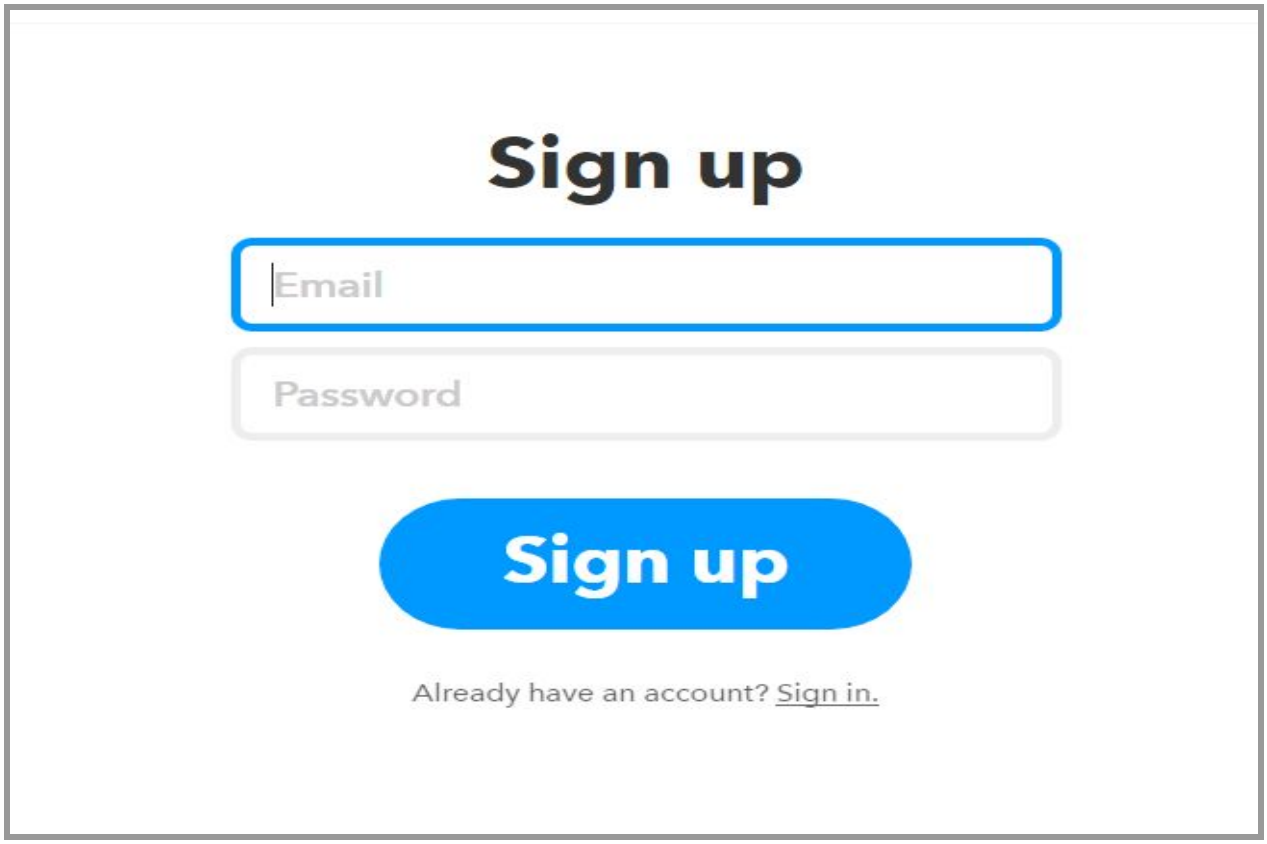
It Requires a organization based email address(For Eg :- abc@nucleonix.com)



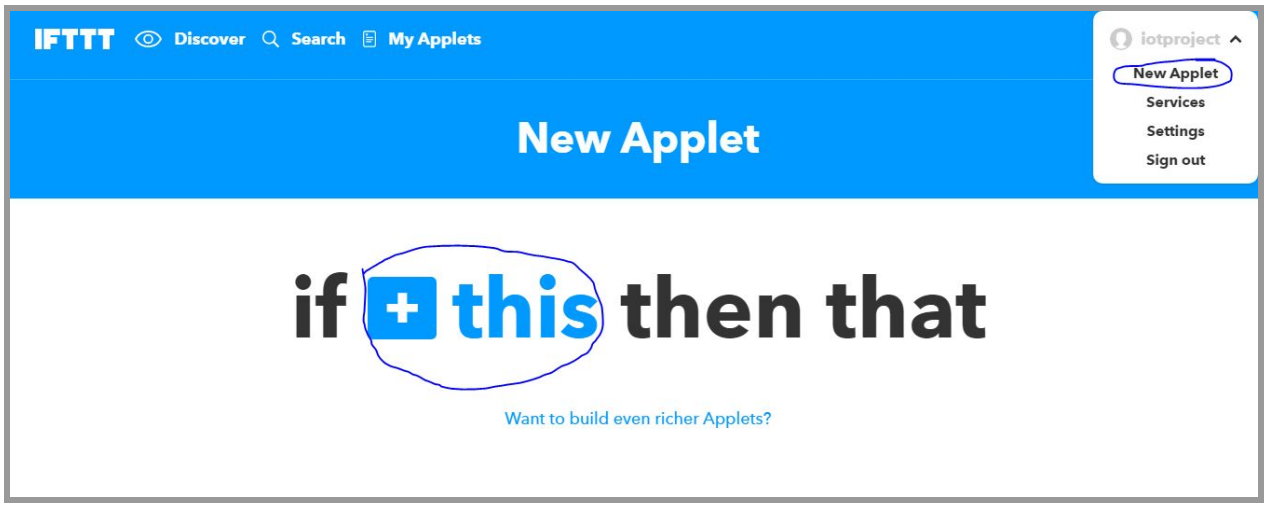
Step 8 :Registering on IFTTT Notification Server

Go to the below link and click on signup button.
https://ifttt.com/

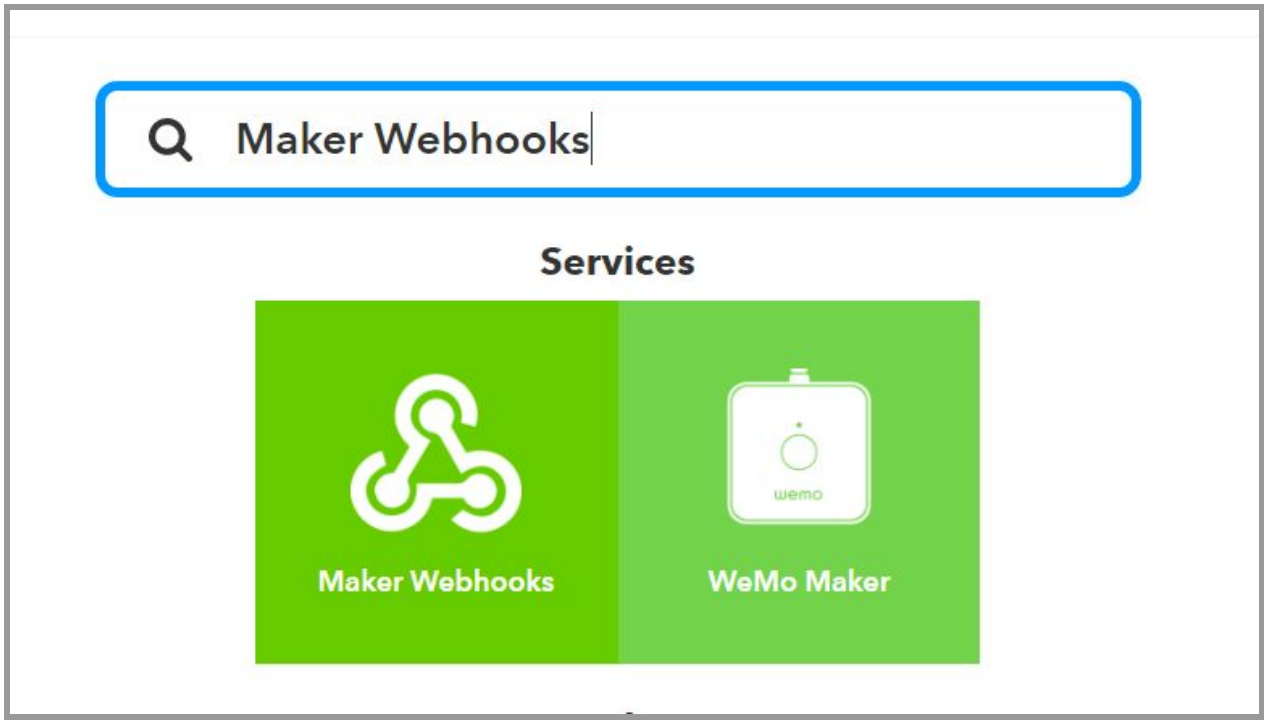




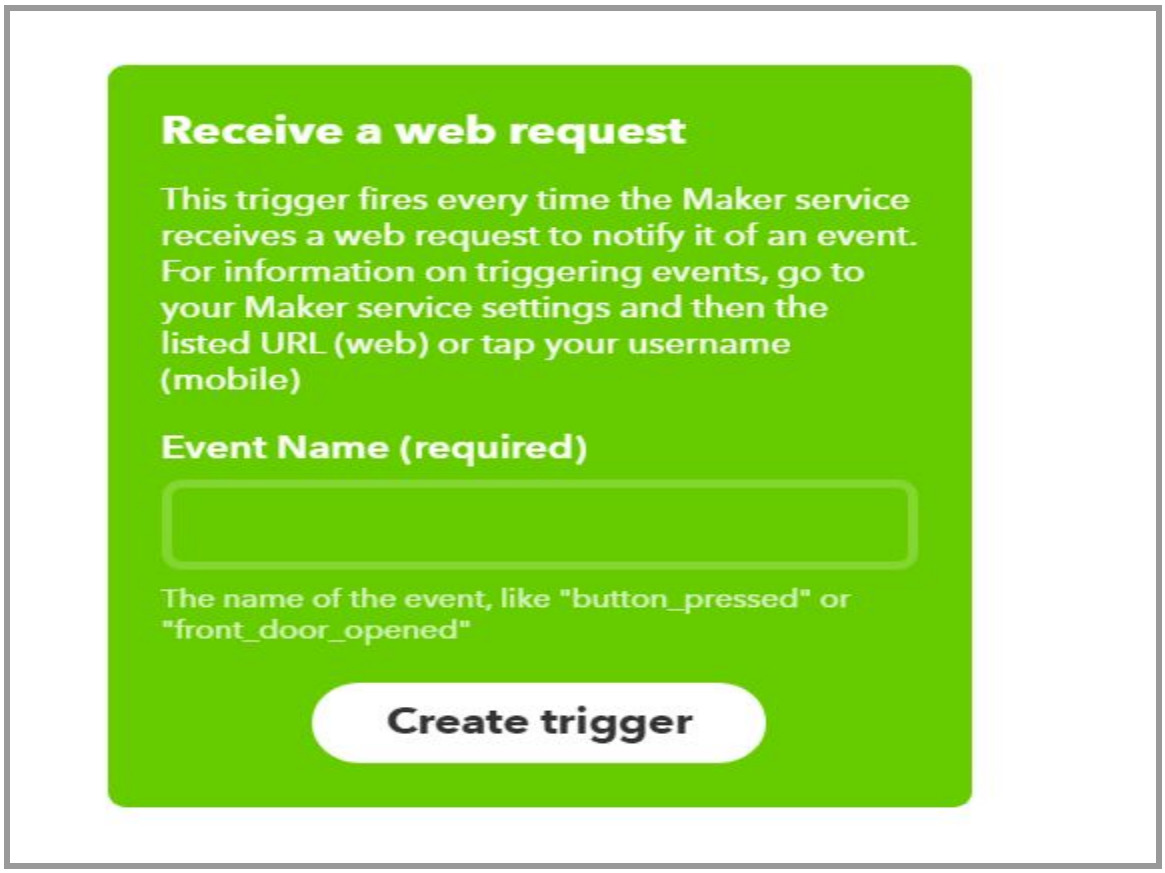
Enter Email id and password then click on sign up button.Later go to user account icon and click on New Applet as shown in figure below.



Next click on *+this* as shown in above figure.Later in search window type Maker Webhooks as shown below.

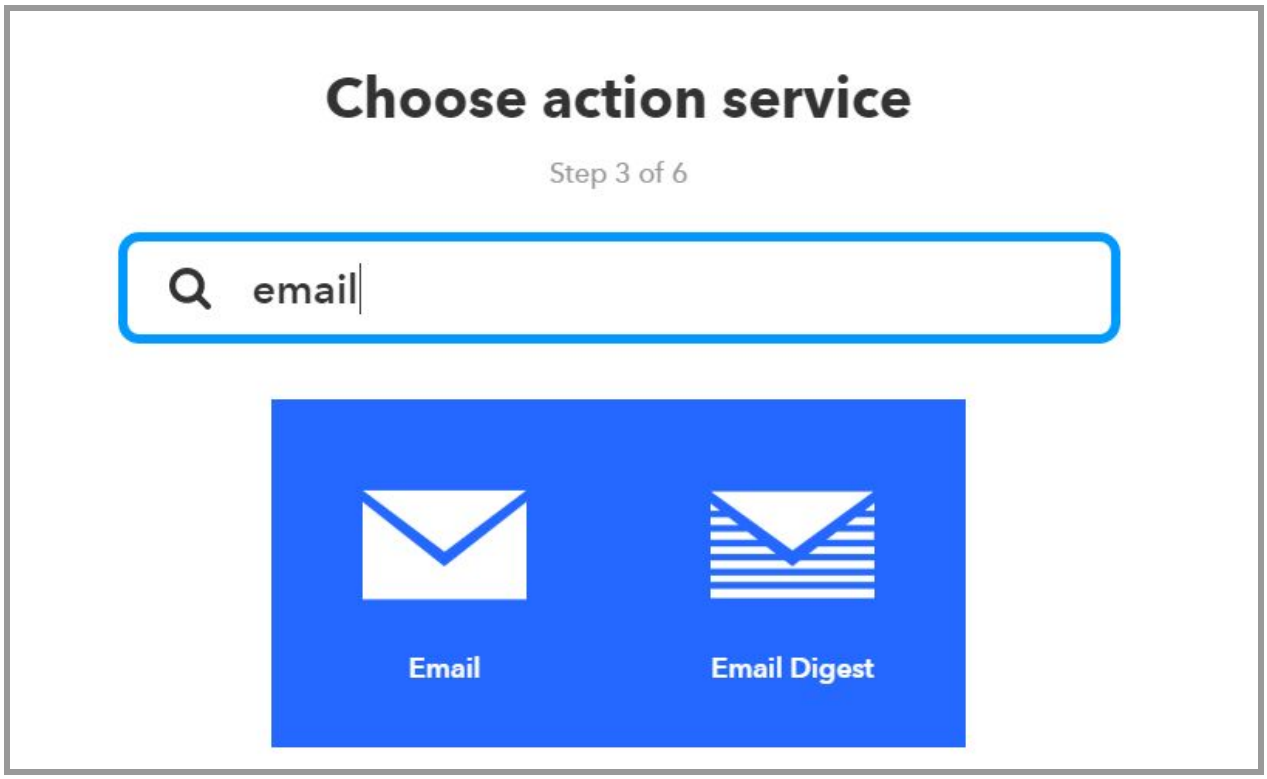


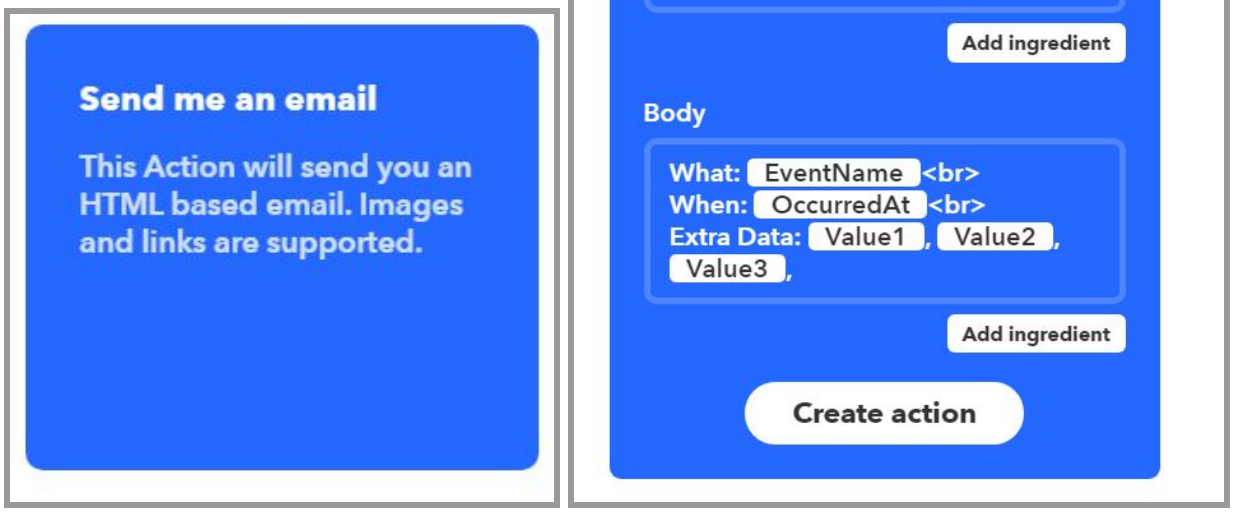
Click on webhooks and enter Unique Event name and click on Create Trigger.



Now click on *+that* *as* *shown* *below.*

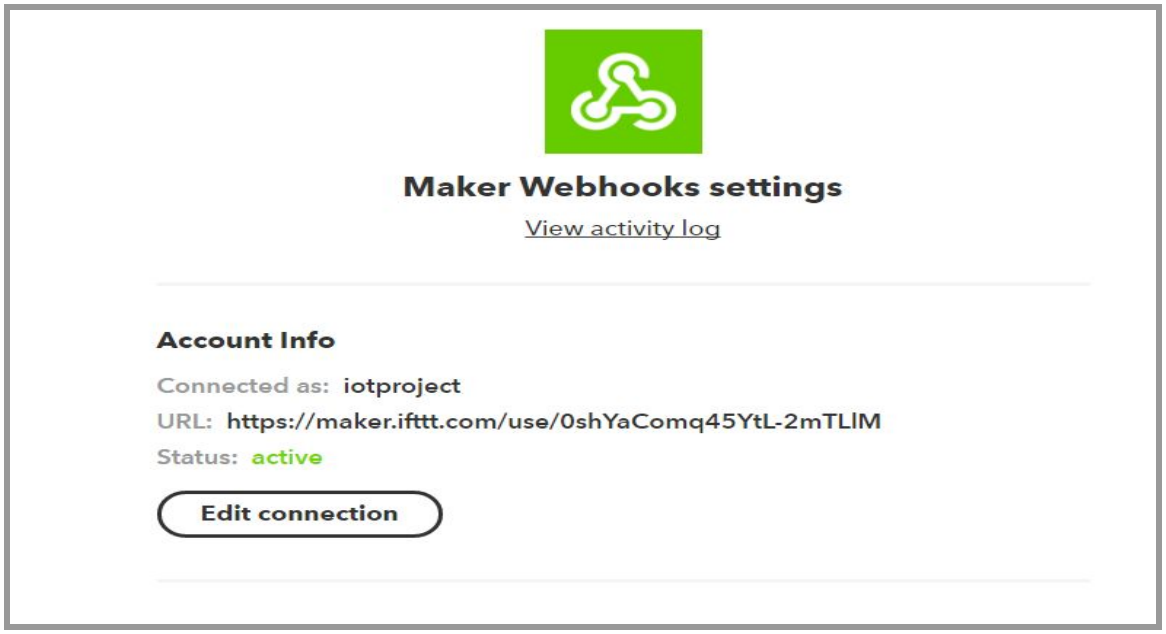
Type Email in search window and select it.Later click on it and enter suitable subject and body.





*Mention the Device Serial number and Device ID as parameter in the body.Click on Create Action--->Finish.

Next Click on *settings* and following window appears.



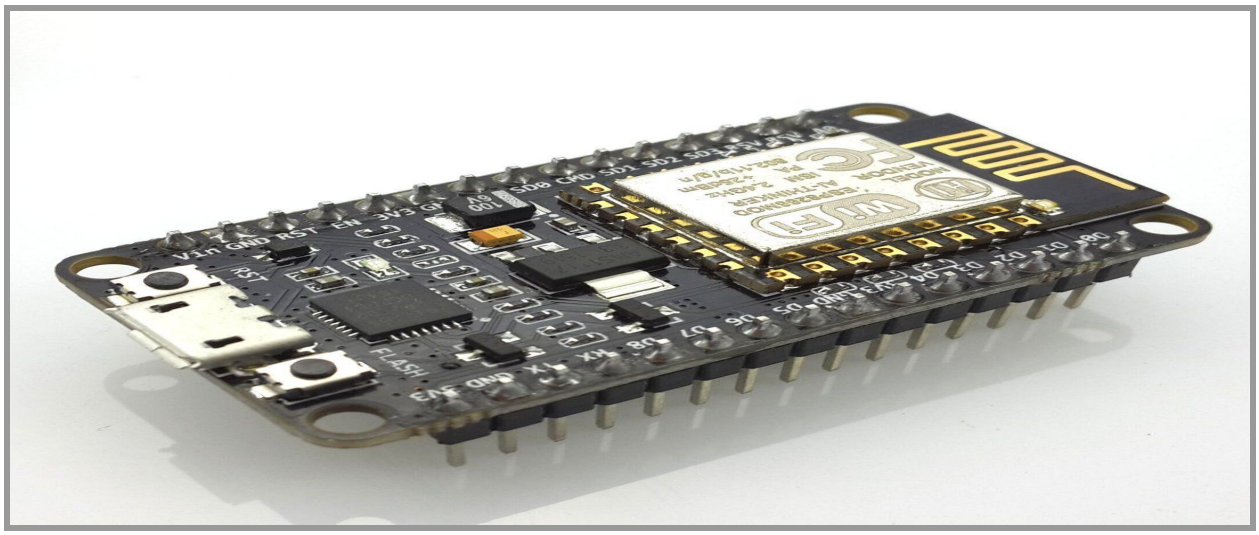
Copy the URL and paste it in Arduino Code.

Chapter 2: Setting up the device as IoT Augmented

Step1:Configuring Colibri T20 to send Radiation data to Node MCU

The Colibri T20 is a SODIMM sized computer module based on the NVIDIA© Tegra 2 embedded system-on-a-chip. The Cortex A9 dual core CPU peaks at 1 GHz. The module delivers high CPU and graphic performance with minimum power consumption. The module also meets stringent industrial temperature range.The integrated NVIDIA Graphics enables visually rich, smooth and fast user interfaces.

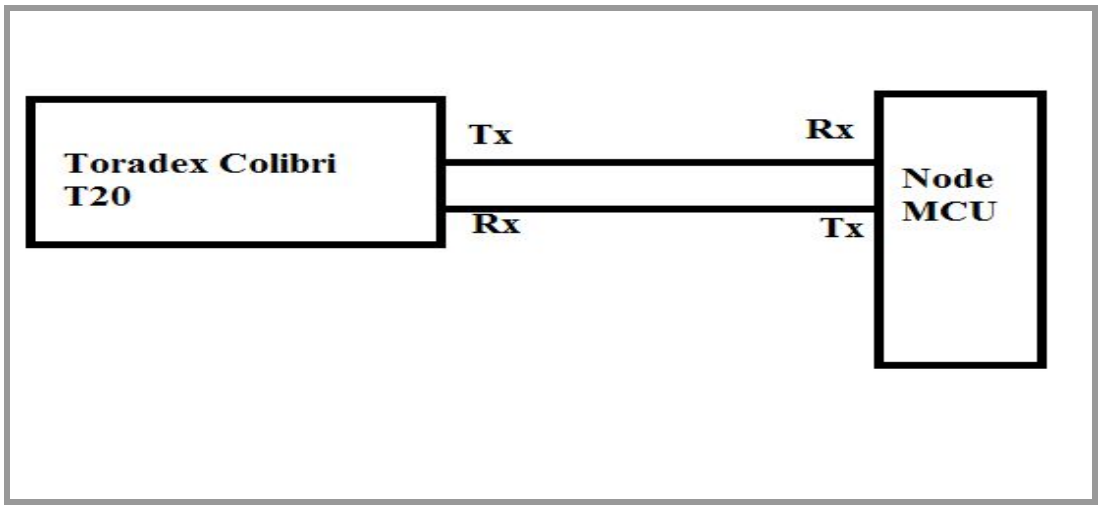
NodeMCU is an open source IoT platform. It includes firmware which runs on the ESP8266 Wi-Fi SoC from Espressif Systems, and hardware which is based on the ESP-12 module.



Colibri reads the data from radiation detectors and that data is sent to NodeMCU via UART.The baud rate used is 9600.Serial data format has to be in JSON (JavaScript Object Notation) format as is shown below. The default values must be changed with actual variables which hold the data.

```
{
"strModel" :"RM701" ,
"strSerialNum" : "20120202010301" ,
 "strMfgDt":"01-01-2015" ,
"strCps": "5" ,
"strExposureRate" : "1" ,
 "strUnit" : "mR/h" ,
 "strHV": "500" ,
"strLV" : "120" ,
 "strDetStatus" : "OK" ,
"strLastCalibDate" : "01-09-2016",
"alarmStatus" : "true"
}
```

Colibri T20 should be configured in such a way such that it sends this json structured format to NodeMCU at 9600 baud rate whenever it receives a ”D!” character from the Node MCU.

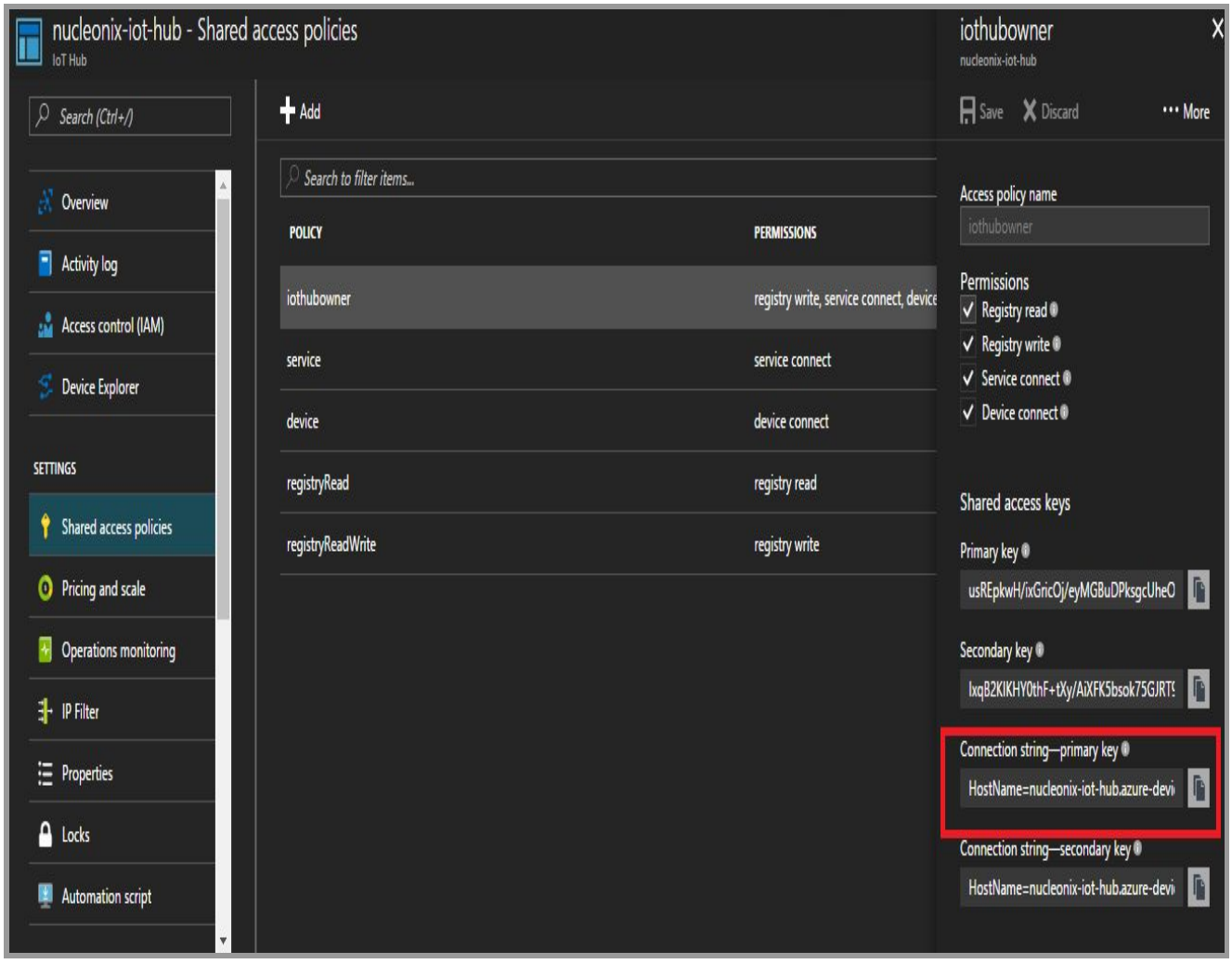


Our next step is to connect to the cloud and upload this data.It requires registering of the device ,creating a storage table and then uploading the data.

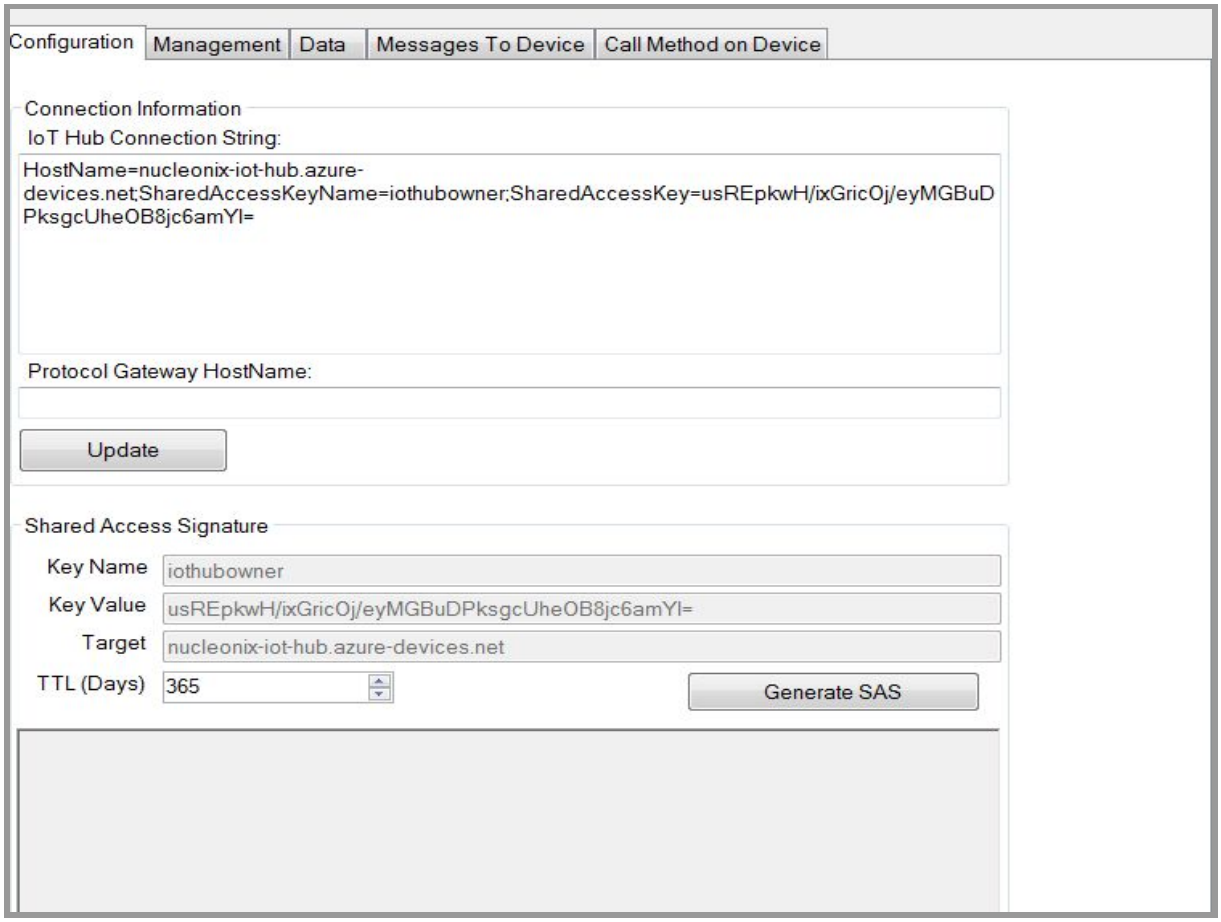
Step2:Register/Authenticate a new device using the Device Explorer software that sends data to Azure IoT Hub

(a)Using the IoT Hub Connection String in Device Explorer

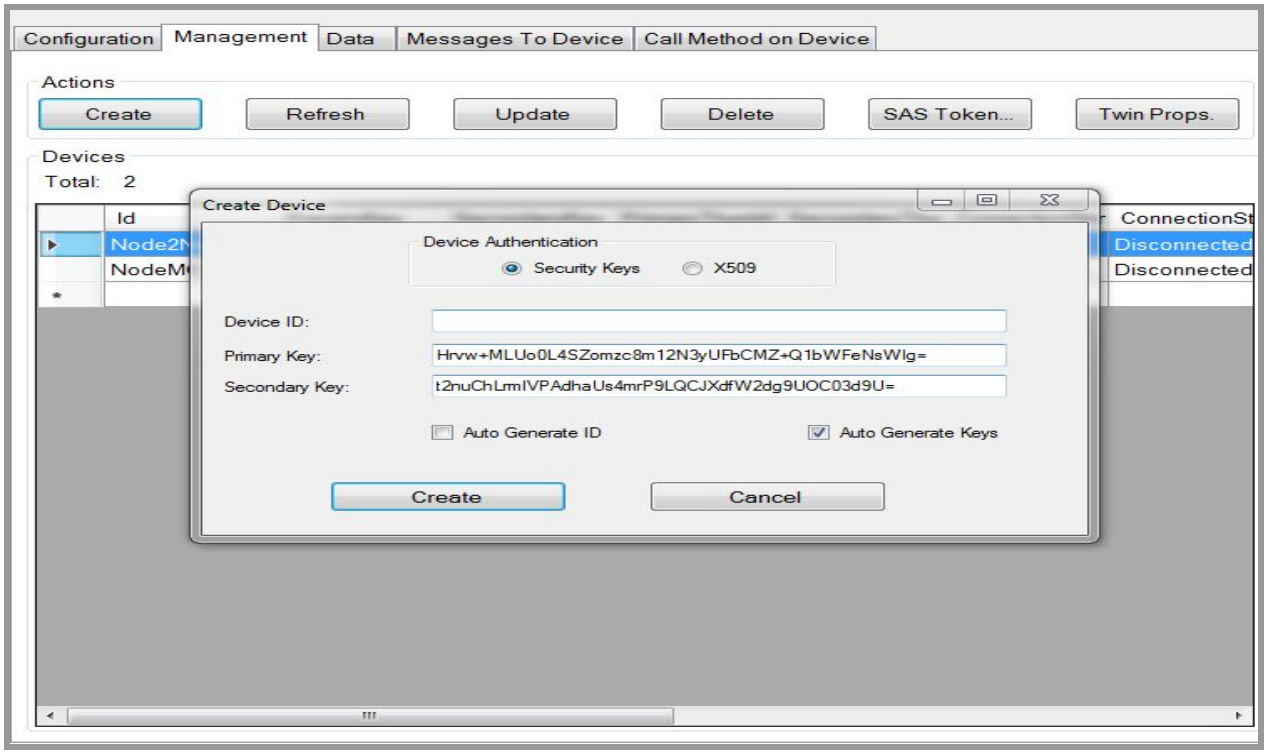
We open the Azure Portal after signing in with our Azure id. From the dashboard we select our Iothub and then head to shared access policies where we select iothubowner policy which gives us a set of keys out of which we copy the primary key connection string.



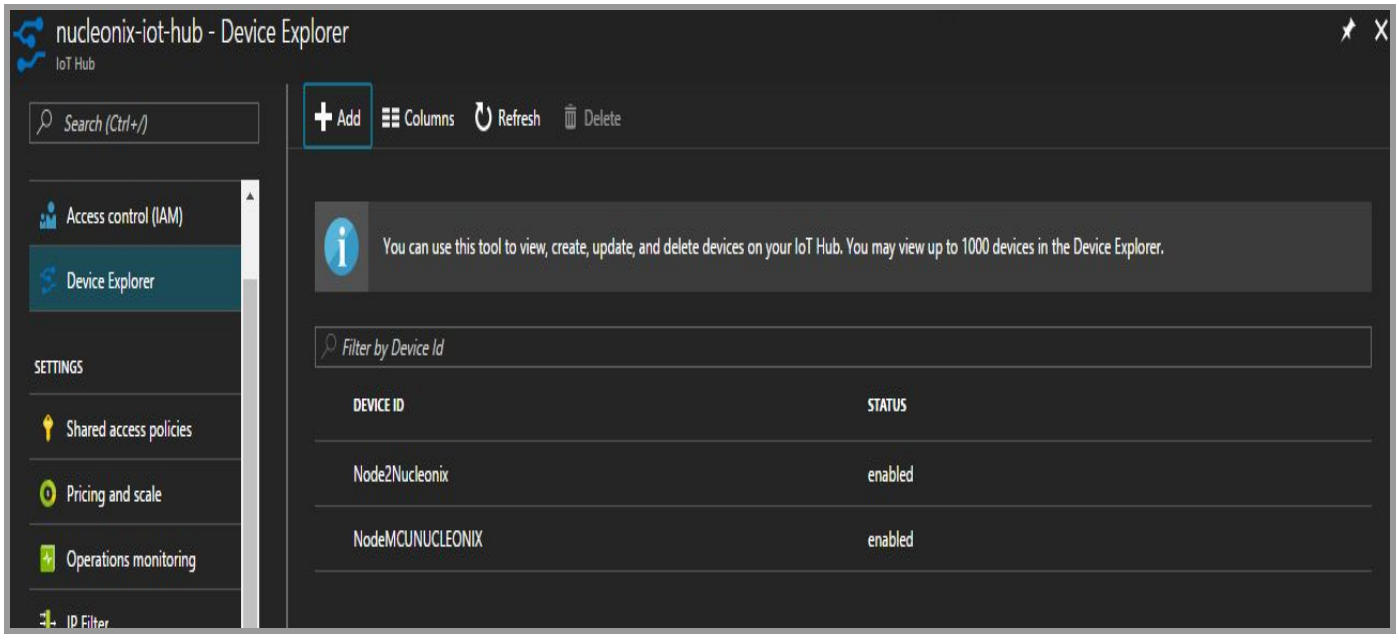
We open the device explorer software that we have downloaded (refer Chapter 1: Setting Up Azure Cloud System- Chapter 6). Once it opens we need to paste the Connection String of our azure IoT Hub and press the update button. Key Name,Key Value and Target loads automatically once connection is established.



(b)Click on Management tab and then click on create and give your device a unique ID(name) .Select auto generate keys.(See figure on next page)



Once this is done , go to Azure portal and select IOT hub→ Device Manager Tab it shows A new device is registered.



Once we click on the new device we have registered we have Connection string—primary key displayed which is to be copied(we use it in next step).

(c)Modify Parameters in the Code

In Azure Client file of the node mcu code we paste the Connection string—primary key we had copied in the previous step. As well as fill in the Wifi ssid and password of the WIFI network the device is going to be tested/deployed in.

```
const char* connectionString = "HostName=nucleonix-iot-hub.azure-devices.net;DeviceId=Node2Nucleonix;SharedAccessKey=kI+iMRpdacqXwX4jJ7tr/9w0XNvQmeBexVU8i4ihS9s=";

const char* ssid = "  ";
const char* pwd = "   ";
```

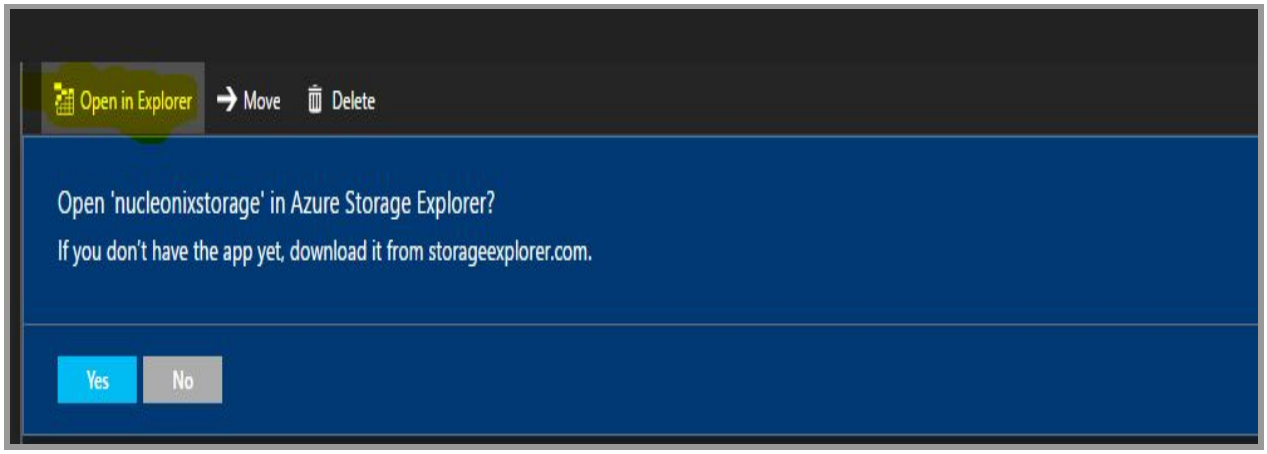
*ssid indicates the WiFi id available in the range.Replace it with the name of the WiFi available.
*pwd indicates the WiFi password.Replace it with the corresponding WiFi password.
*Paste the URL from IFTTT that was copied earlier in the arduino code at the location specified in following window.

```
        Serial.println("sending request to IFTTT");
      //Declare object of class HTTPClient



   http.begin("http://maker.ifttt.com/trigger/table_updated/with/key/0shYaComq45YtL-2mTLlM");
```

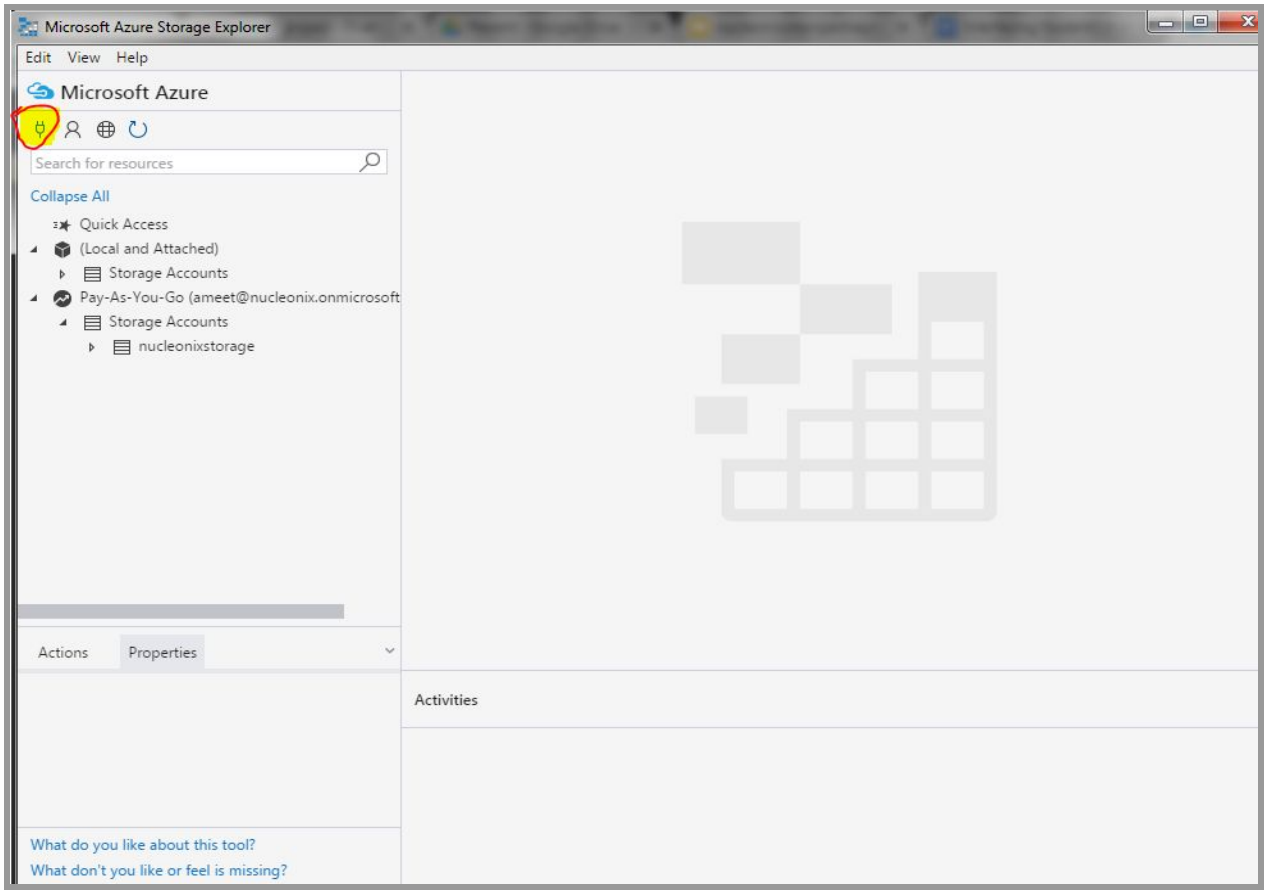
Once this is done we can burn this modified code onto Node MCU.

(d)Setting up Azure Table Storage- Azure Storage Explorer to Set up the configuration table from where we can configure our new device

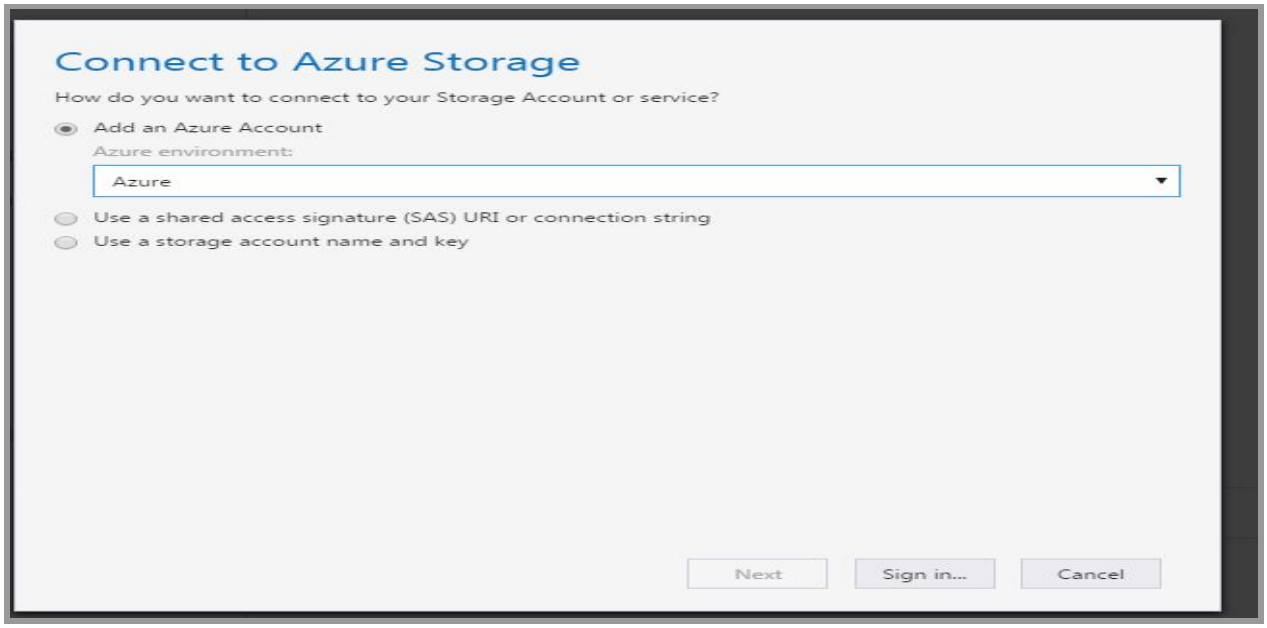
We have downloaded and installed Azure Storage Explorer (refer Chapter 1: Setting Up Azure Cloud System- Chapter 6).We open the Azure Portal click on our storage account and then Click on “Open in explorer” then download the Azure table storage explorer if not previously downloaded otherwise just click ok on the open url pop-up which shows up. This opens up the Microsoft Azure Storage explorer.

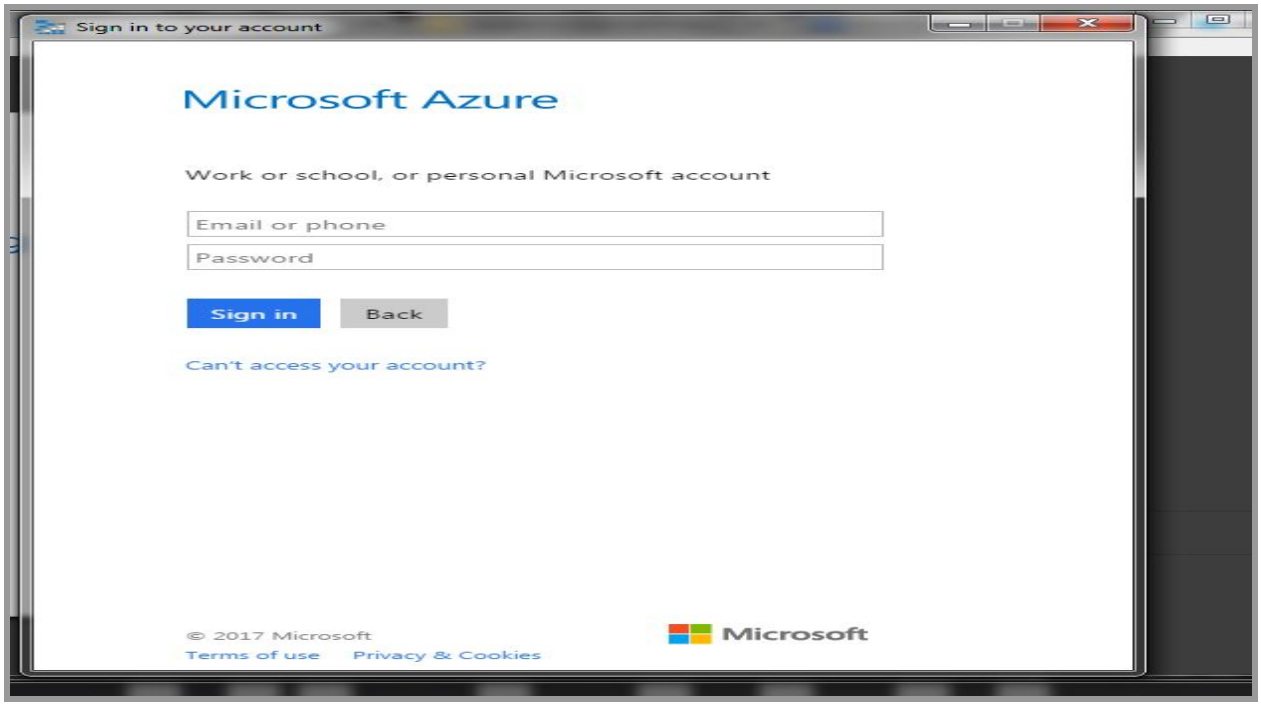


If not already connected then we must sign in using azure account Credentials by clicking on the “Connect to Azure storage “ icon as shown in figure below.



Now following window will appear, select azure environment as Azure and click Sign In.

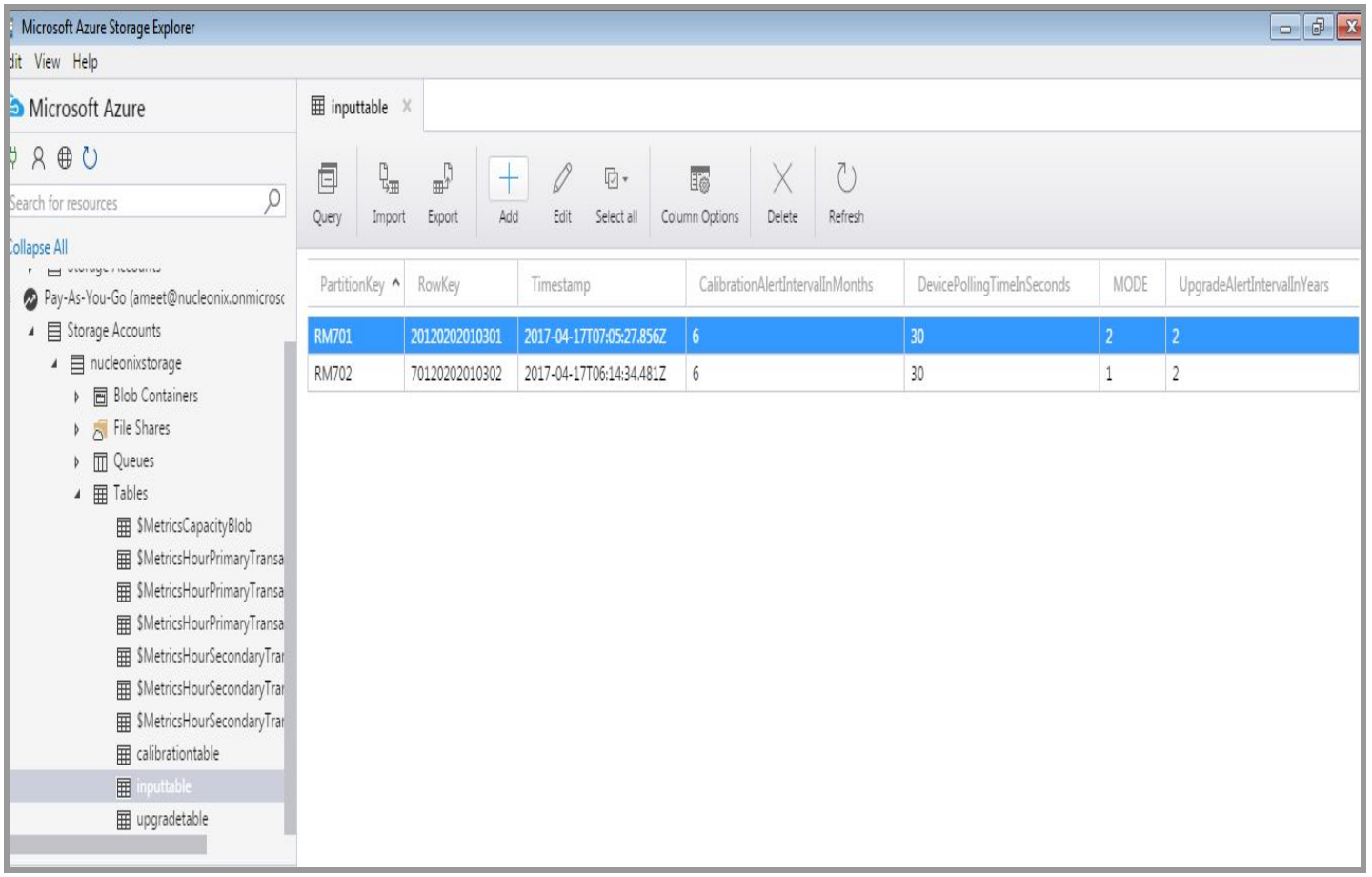




Enter the details and click on sign in button.

(d)Adding entities

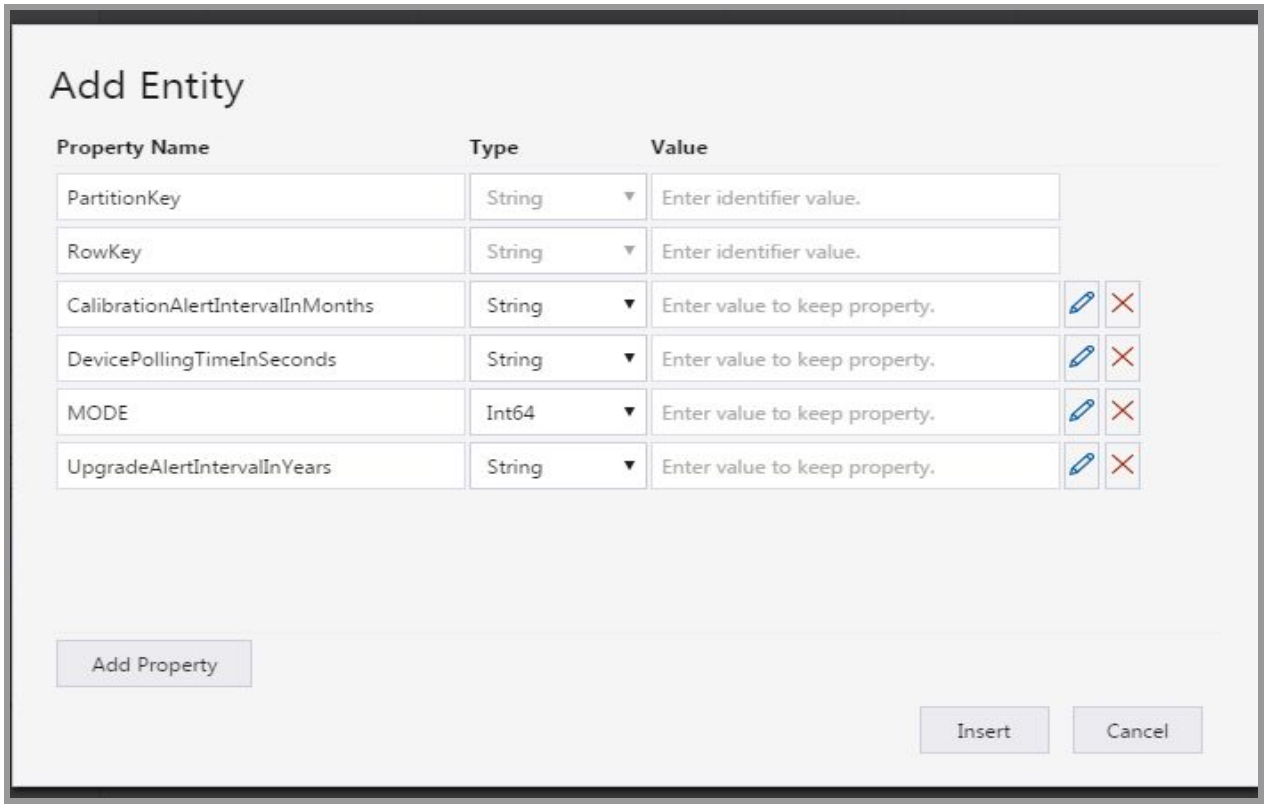
Once the connection is established between Storage Explorer and Azure Storage,it shows various storage services like Files,Blobs,Queues,Tables. Navigate inside the left side menu to the Table named inputtable.



Now add an entity by clicking the Add+ mark shown in the below figure.

Partition Key and Row Key allows us to fetch data from particular row and column.We can add our own Properties (ex:temperature,voltage...).Here TYPE indicates the datatype of the property and the PROPERTY VALUE indicates the input value that you want to give for that particular property.

In Our case “Input table” that accepts the inputs from administrator has the following structure.



IMPORTANT : In Partition Key field correctly enter the model no. such as "RM107" and in row Key correctly enter the Serial no. such as "201648383" which we are getting via Serial Communication. So that each node mcu fetches it's respective row's data from the table while configuring itself.

Other fields can be filled as follows :

" **CalibrationAlertIntervalInMonths** " indicates the time period for a device beyond which a calibration alert has to be generated.This is specified in months(Integer).

" **DevicePollingTimeInSeconds** " indicates the time interval at which the device has to upload data to the iot-hub.

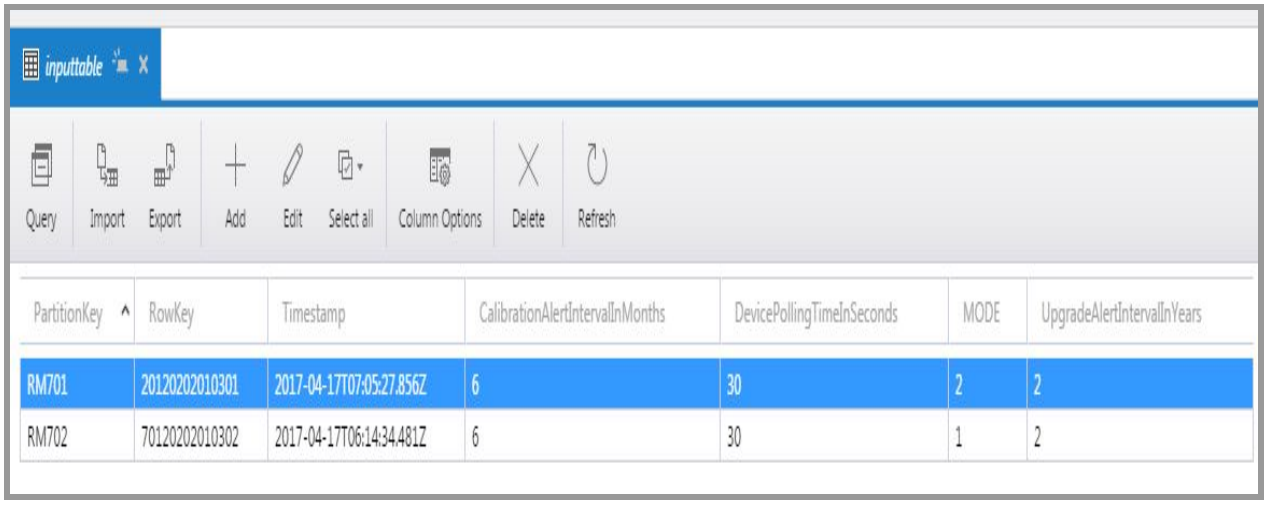
" **MODE** " indicates the operating mode of the device.It is usually 1or 2 or 3.

1 – Send every time data is read – cps, Exposure rate, Unit, AlarmStatus

2 – Send data only when Alarm is generated, i.e., AlarmStatus=True

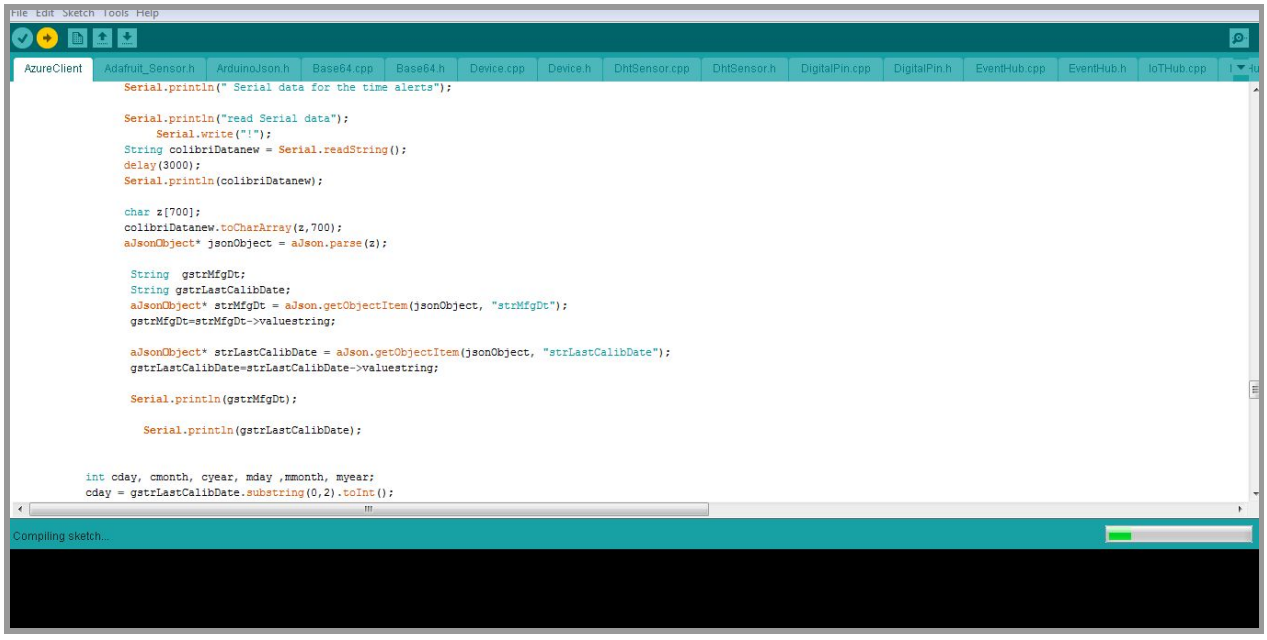
3 – Do not send data

" **UpgradeAlertIntervalInYears** " indicates the time period for a device beyond which a upgrade alert has to be generated.This is specified in years(Integer).



Step3: Burn the code and Test whether the NODE MCU is working properly

1.Compile and Upload the Code to NodeMCU



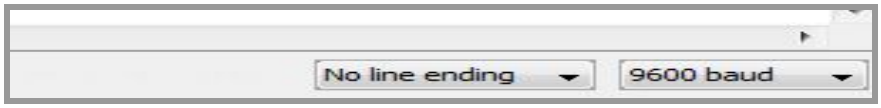
*Click on the Arrow present at top-left of arduino IDE,this button auto compiles the code and on successful completion uploads the code to NodeMCU.

*All the errors related to the code will be displayed in the black window available at the bottom of the IDE.

2.Checking Serial Monitor Data

On clicking the icon specified in top right of the above picture,serial monitor will appear.

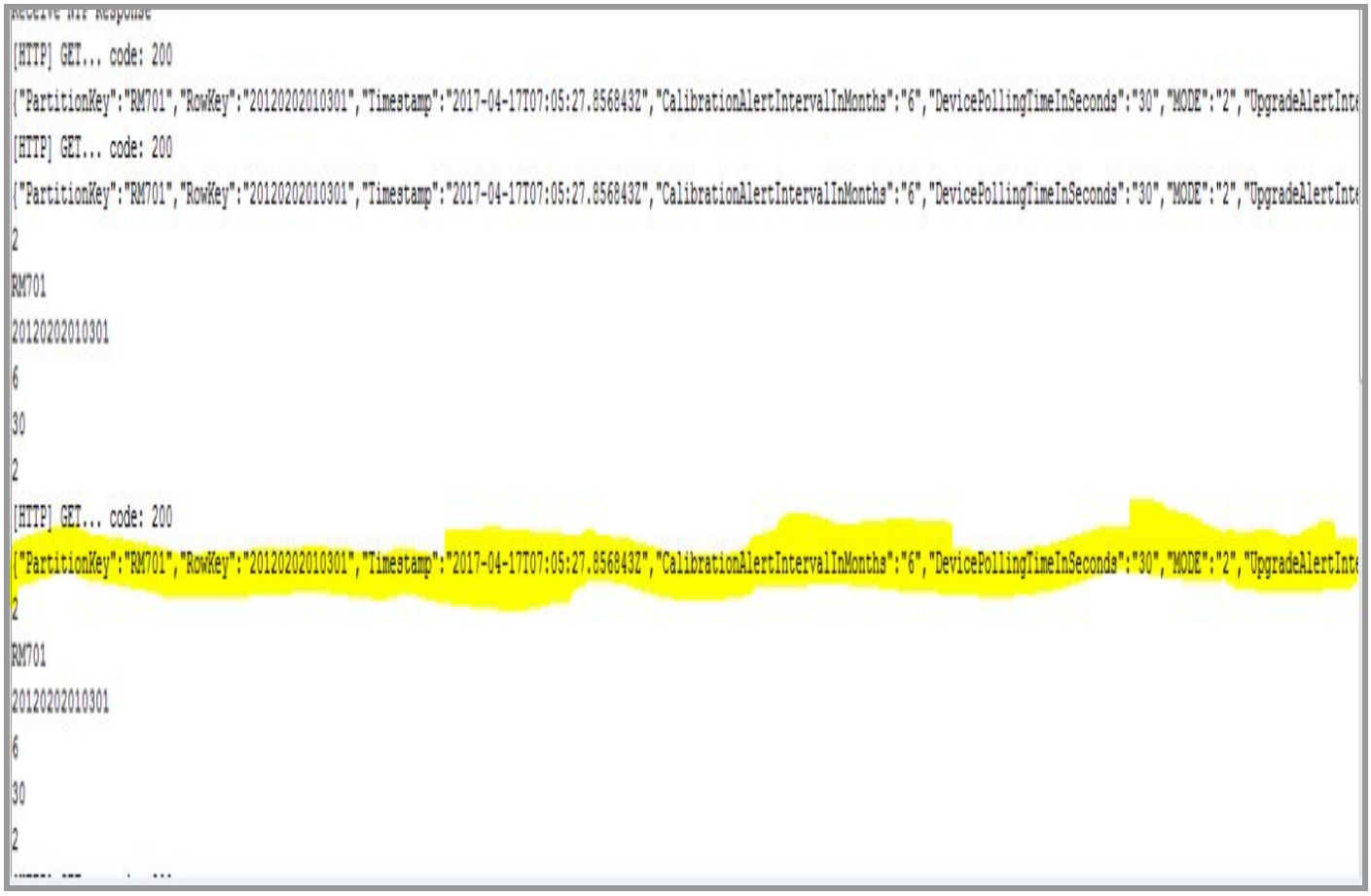
Select the suitable baudrate -same as the baudrate mentioned in the setup() function.In our case it is 9600




```
Device need not  be recalibrated
[HTTP] GET... code: 200
{"PartitionKey":"RM701","RowKey":"20120202010301","Timestamp":"2017-04-17T07:05:27.856843Z","CalibrationAlertIntervalInMonths":"6","Device
2
RM701
20120202010301
6
30
2
Device needn't get recalibrated
In mode 2
read Serial data
D!{"strModel" :"RM701" ,"strSerialNum" : "20120202010301" , "strMfgDt":"01-01-2015" ,"strCps": "5" , "strExposureRate" : "1" , "strUnit" :

Alarm status is true and hence sending data
read serial data now
D!RM701
01-01-2015
5
1
mR/h
500
120
OK
01-09-2016
true
printing data from sensor.cpp
{"Utc":"2017-04-21T16:39:18","strModel":"RM701","strSerialNum":"20120202010301","strMfgDt":"01-01-2015","strCps":"5","strExposureRate":"1"
¨□ @\€ @ € @8z @t' @à¥ @¼.. @ð... @ü  @D† @Ä□ @t¦ @   @T  @Ð€ @
204
```

3.Checking whether our node is successfully fetching the row associated with it from Azure Table Storage

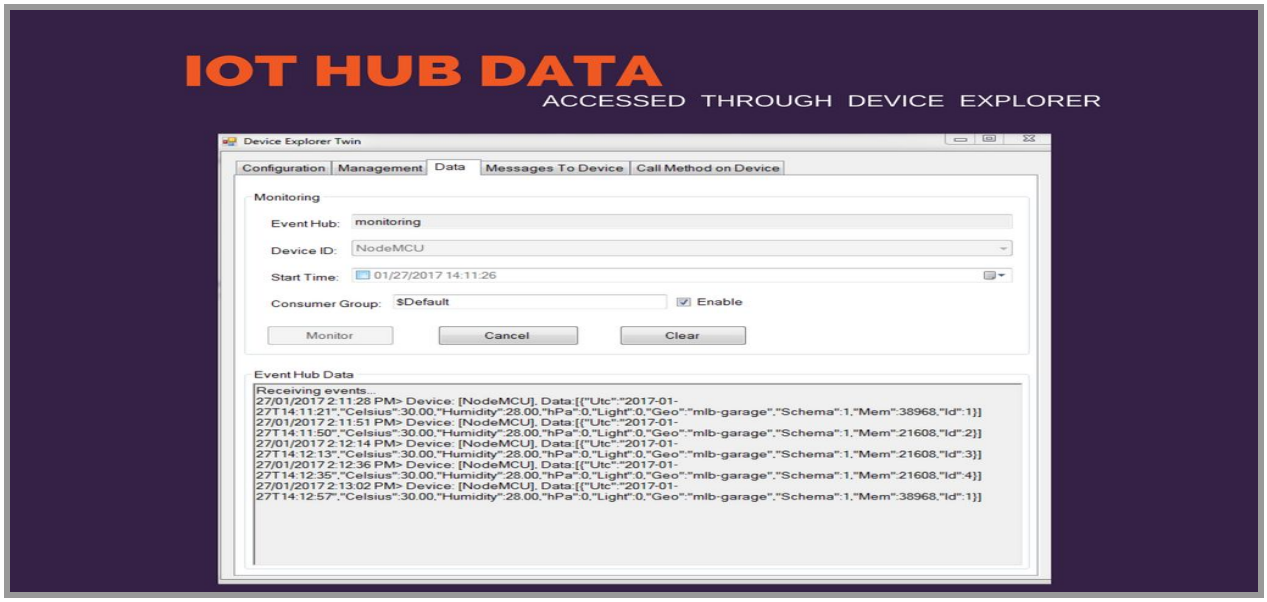
Once you have followed the previous steps we can open the COM port in the Arduino with the Node MCU plugged in using a USB connector as well as Serial communication taking place between the Colibiri T20 and the Node.



The above figure shows that NodeMCU has a successful GET request i.e., it has fetched the parameters from the input table successfully.Hence it shows **successful request code "200**".The variables:MODE,CalibrationAlertIntervalInMonths,UpgradationAlertIntervalInYears,DevicePollingTimeInSeconds are declared globally in the arduino program so that every time when values are fetched from table these values of global variables change and hence device configures itself.We can change values in input table and see how the device reconfigures itself..

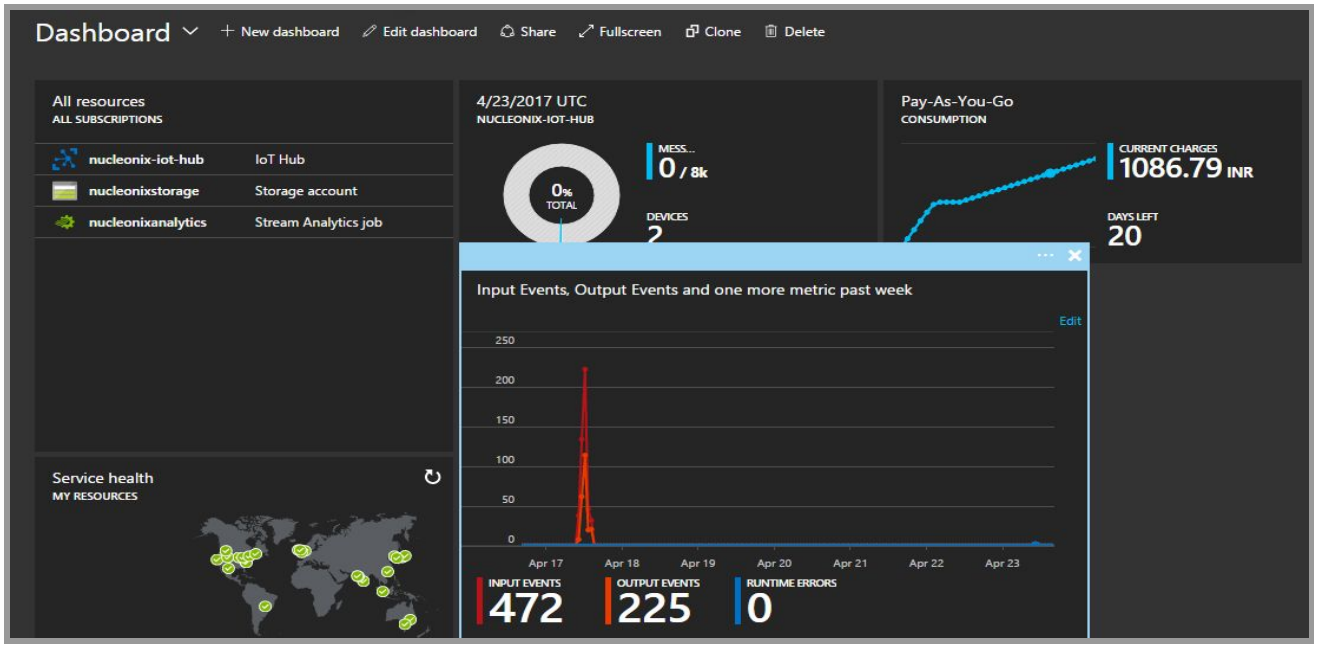
4. Checking whether our node mcu is able to send the serial data to IoT Hub

To check whether data has successfully uploaded to the IoT Hub, we check for successful request code **204 in the serial monitor .**We can also open Device Explorer and go to Data tab ,Select your eventhub ,device ID,enable it with a default consumer group and then click on Monitor to see real time data coming into the Iot Hub.



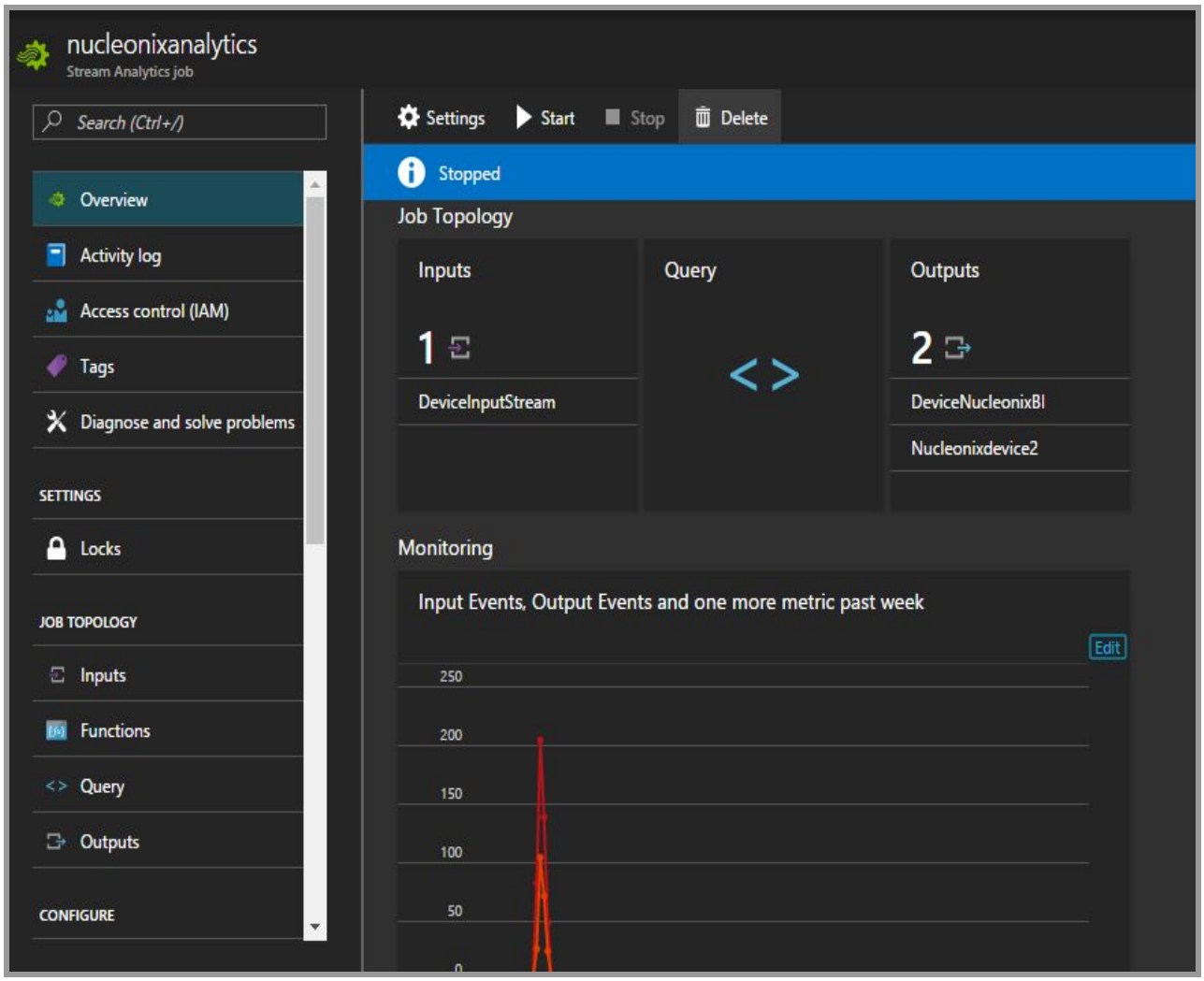
We can also see on the Azure portal how many requests the IoT Hub has received in a day by logging into the portal.

Step 4 :Monitoring Input/Output requests in IoT/Hub and Stream Analytics

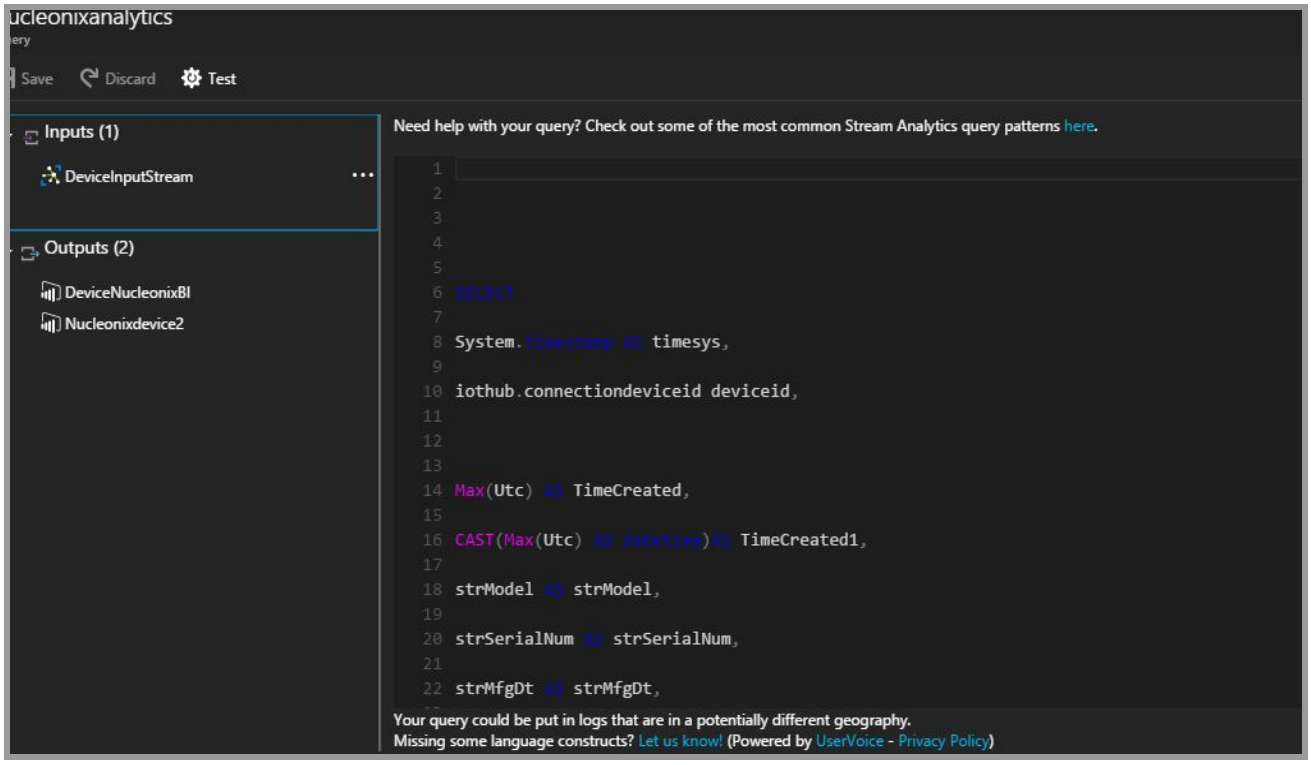


Clicking on the metrics gives the above graphical data..
8K under Messages field indicates the maximum number of requests that can be sent to iot-hub per day.INPUT EVENTS indicates the number of POST requests to iot hub i.e.,polling the device data to iot-hub.OUTPUT EVENTS indicates the number of packets that iot-hub has sent to stream analytics.

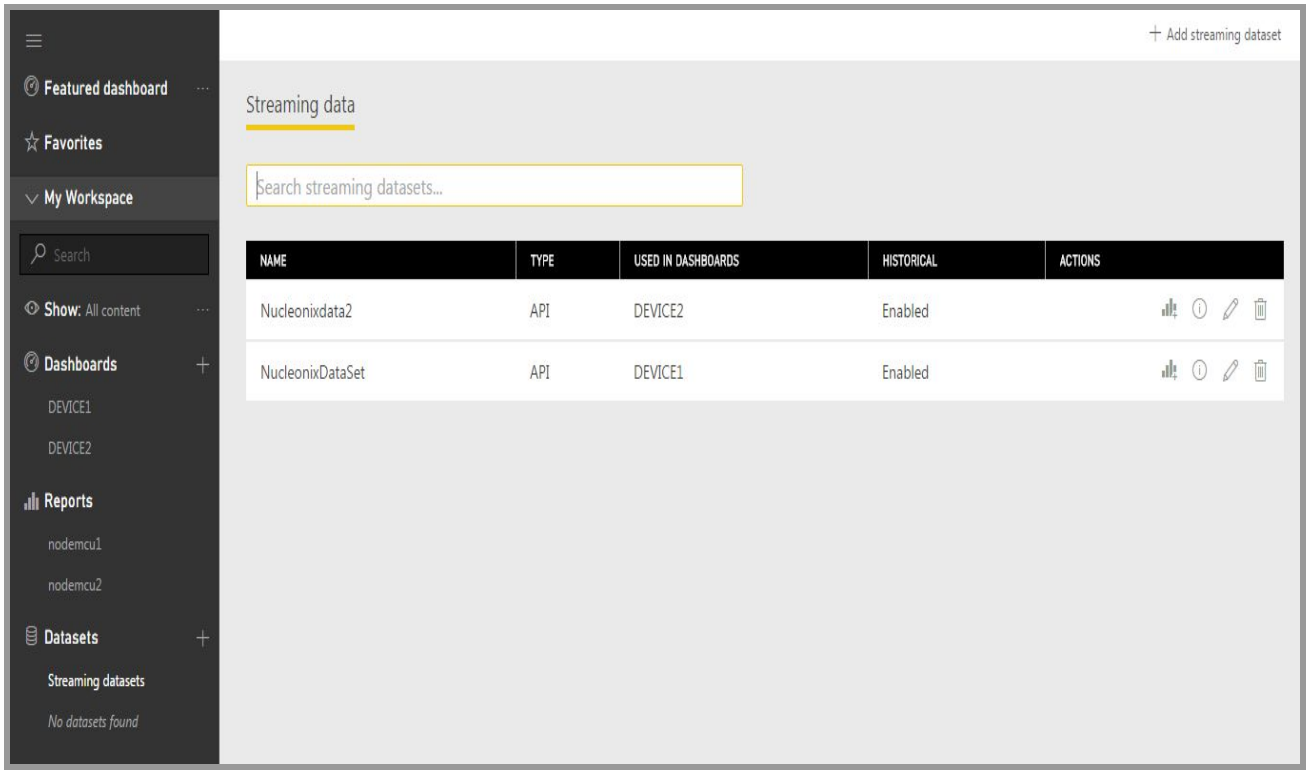
Step 5:Performing Analytics using Stream Analytics



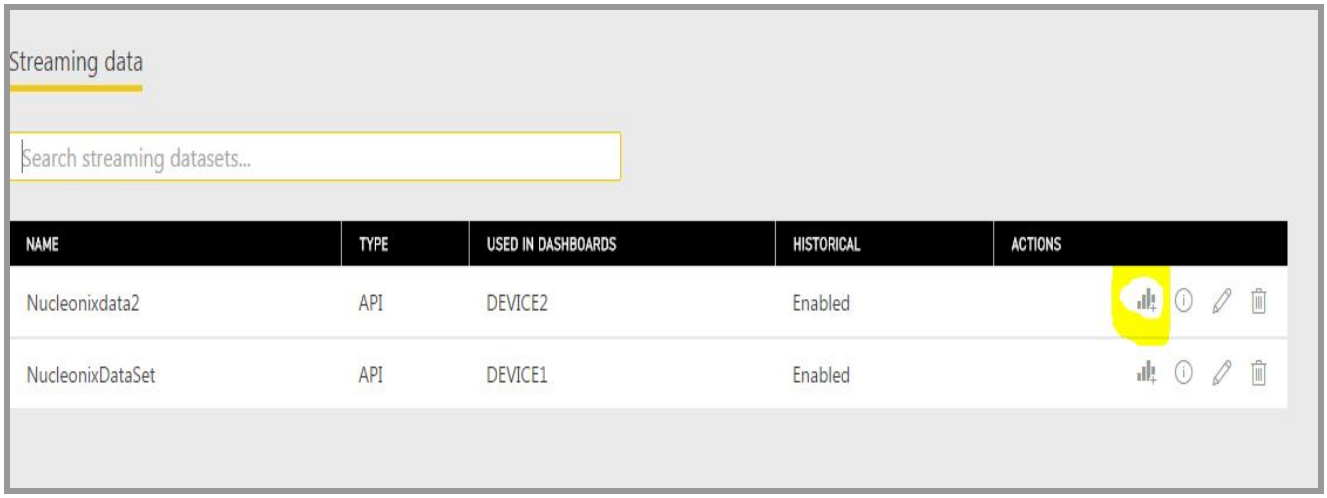
- Click on the stream analytics job that has be created earlier and above window appears.Here START /STOP indicates whether data is to retrieved from iot-hub and visualized or not.Stream analytics is based on NOSQL queries.Amount will be charged only when status is RUNNING.
- INPUT indicates the input data source to the stream analytics i.e., iot-hub and OUTPUT represents the target GUI where the data is to be visualized i.e.,POWER BI.
- One can easily edit the query by clicking on QUERY window available between INPUT and OUTPUT events.



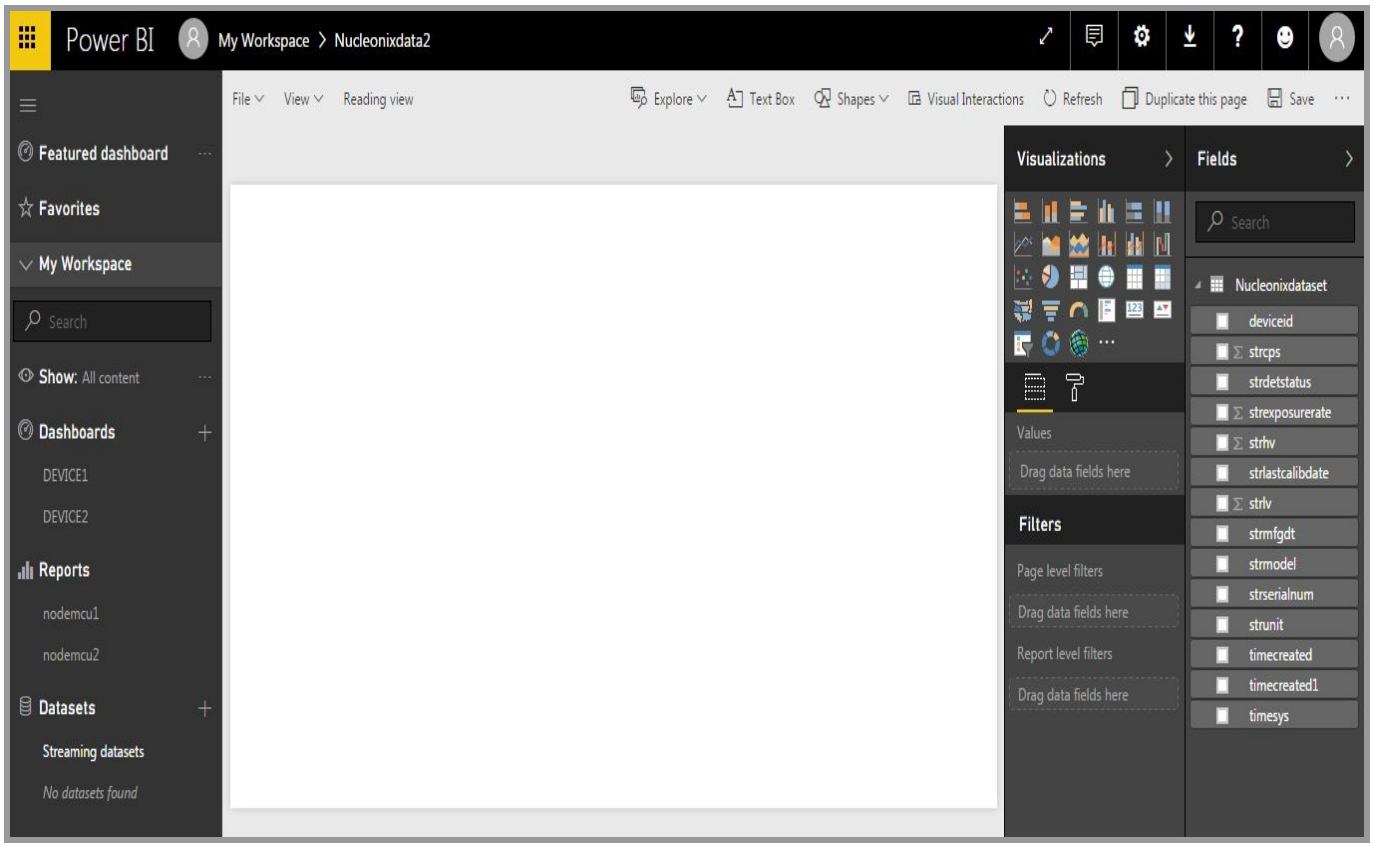
Step 6:Visualizing the Stream Analytics data using POWER BI



Log In to POWER BI and then go to the datasets and click on Streaming datasets.The datasets that were created initially while creating output events in stream analytics will appear here automatically.Now,click on one of the datasets and select CREATE REPORT(highlighted in the below picture).

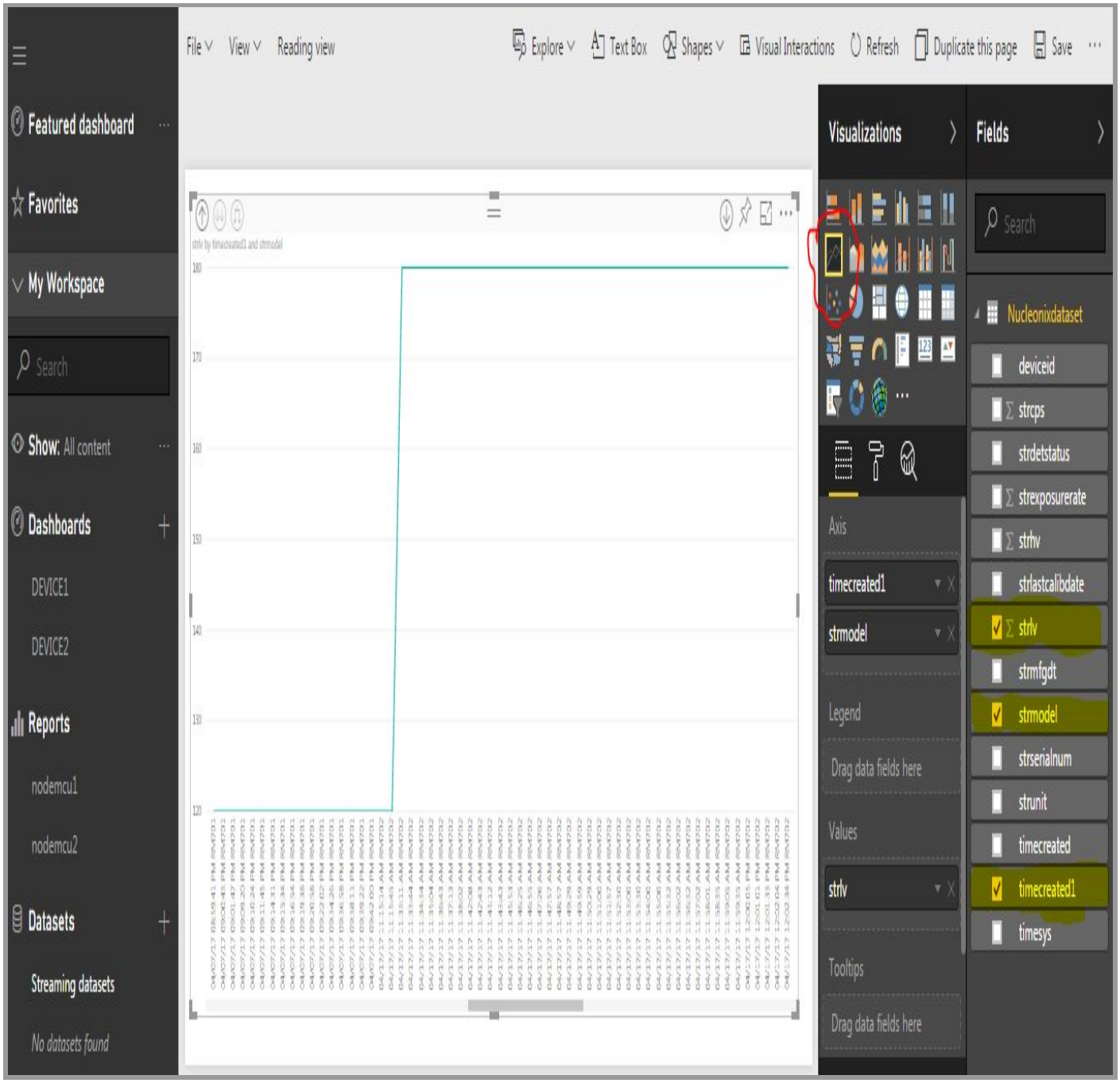


The following screen appears when you click on create report.

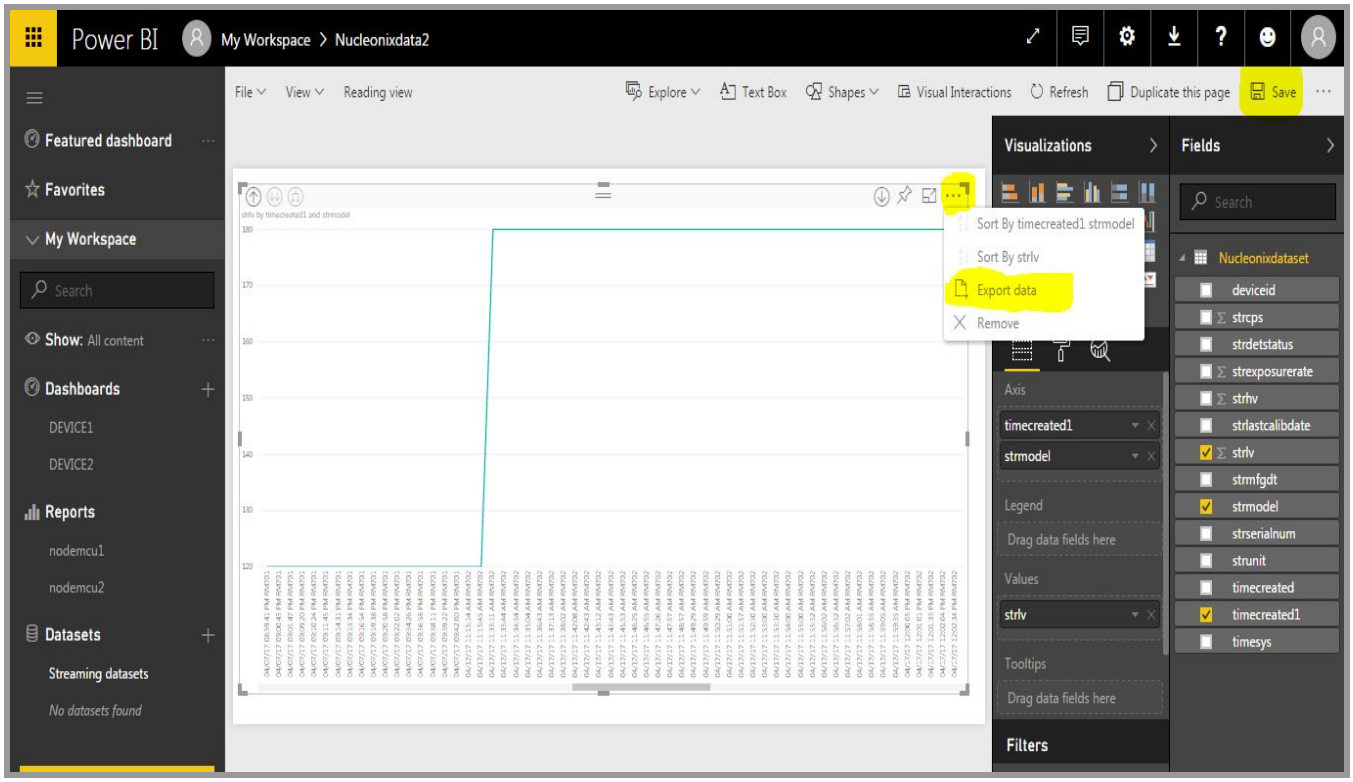


Next select the type of chart required to display the input data coming from the stream analytics.

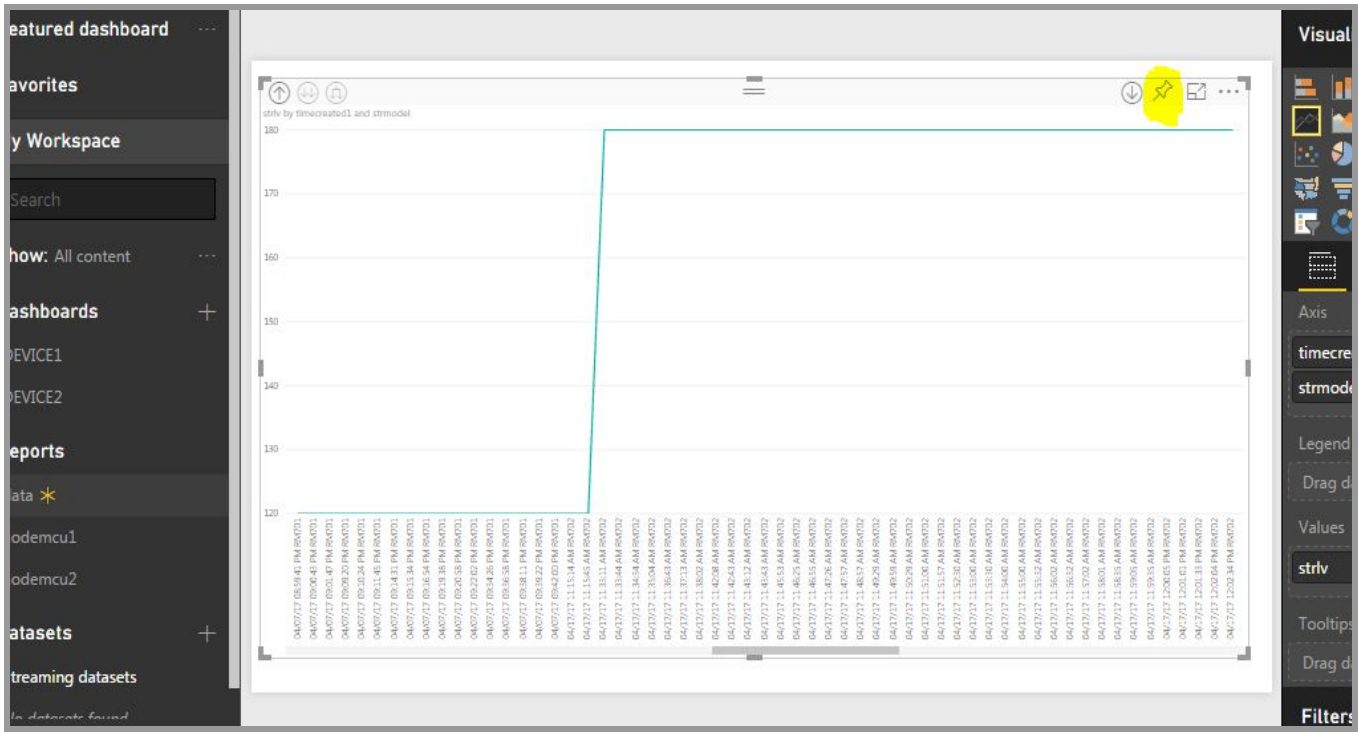
Consider a LINE CHART(highlighted in the below picture with red circle).Then select the parameters that are to be displayed.Here we are selecting strlv on Y axis and timecreated1 on X-axis.strModel indicates the Model number of the device.This is unique for every device.

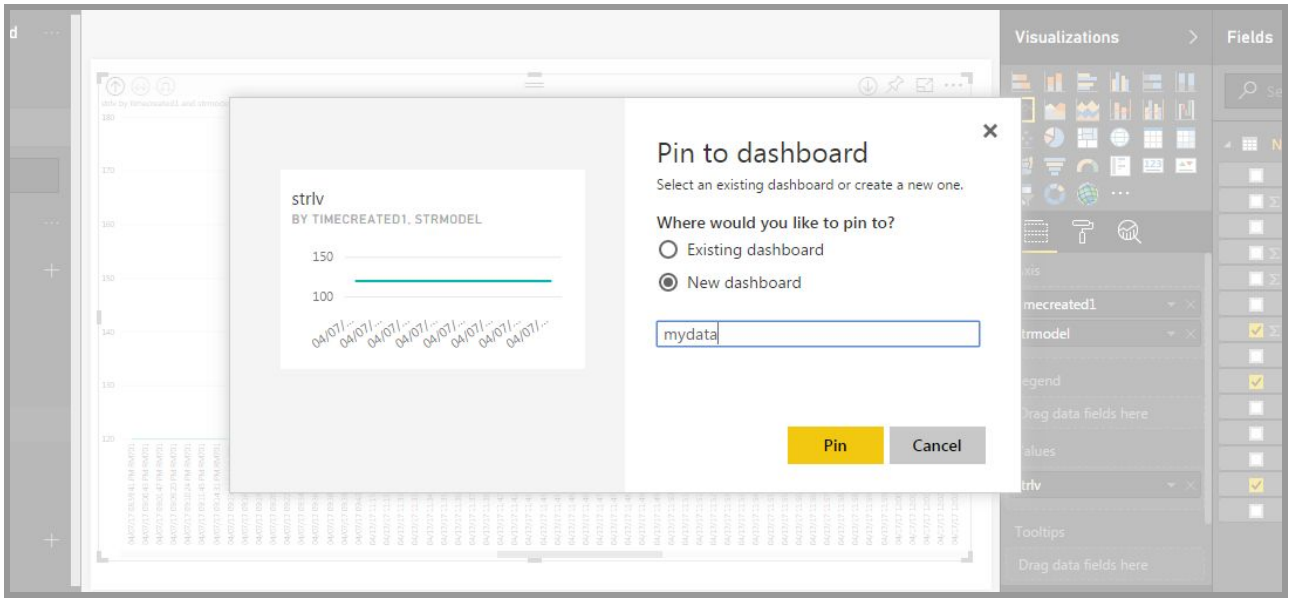


Next step is to save the report and download it in the form of excel sheet using the feature of EXPORT DATA as shown in the figure below.

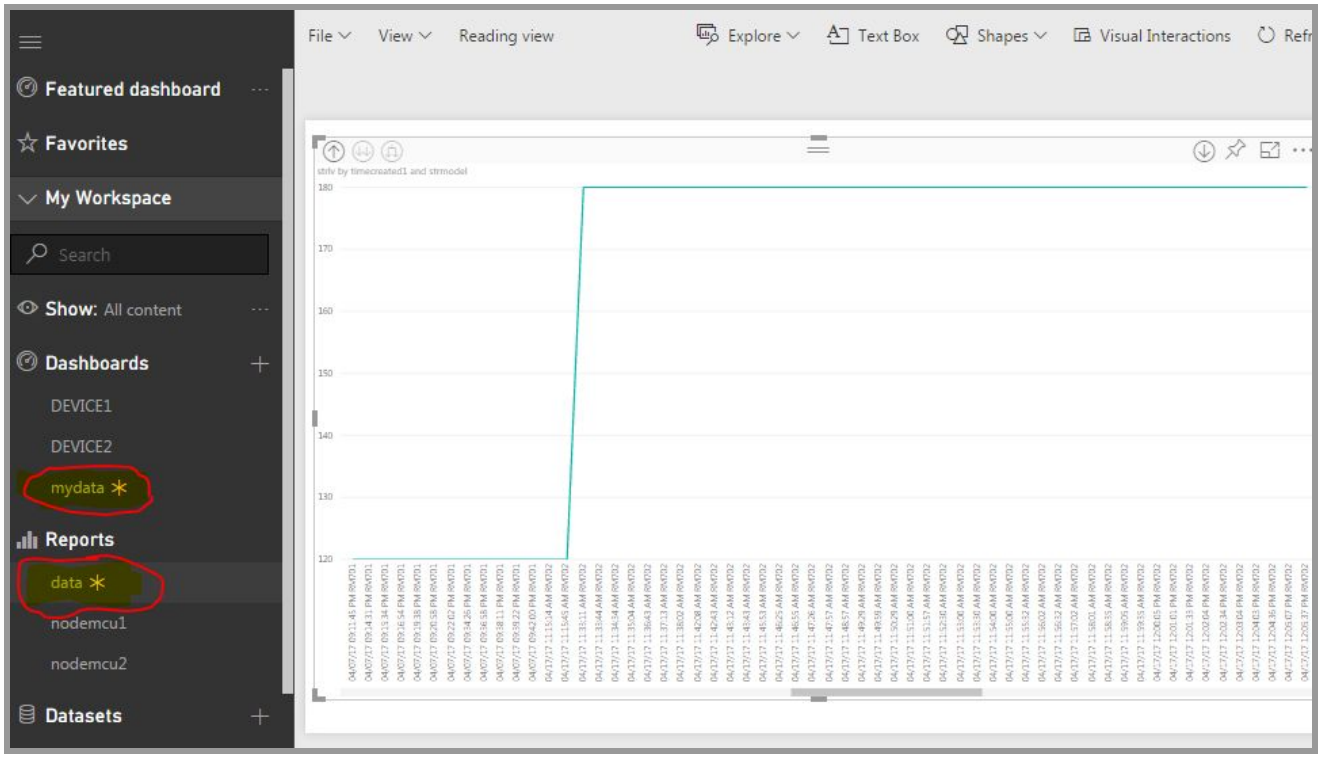


Pin your report to dashboard where various reports can be viewed at single place.creation of dashboard is shown below.Click on the icon highlighted in yellow color.





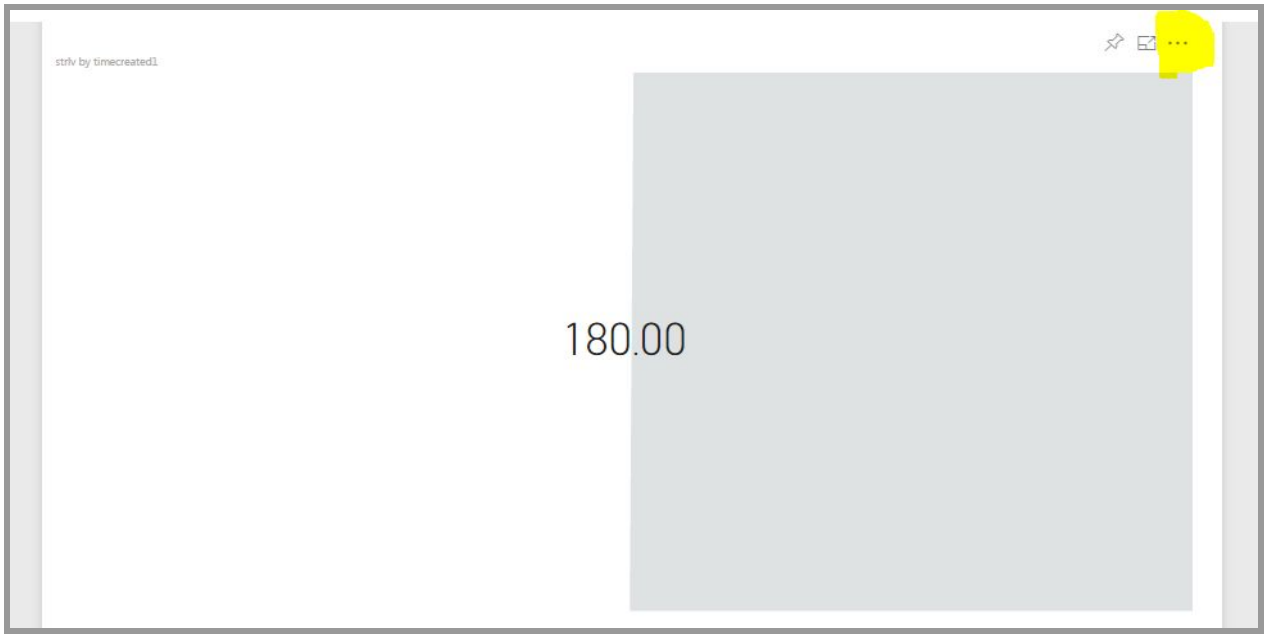
Select a new dashboard and give a unique name or choose an existing one and click Pin.The below figure shows the Dashboard and the Reports that are being saved.Here *data* is name of the report and mydata is the name of the *dashboard.*



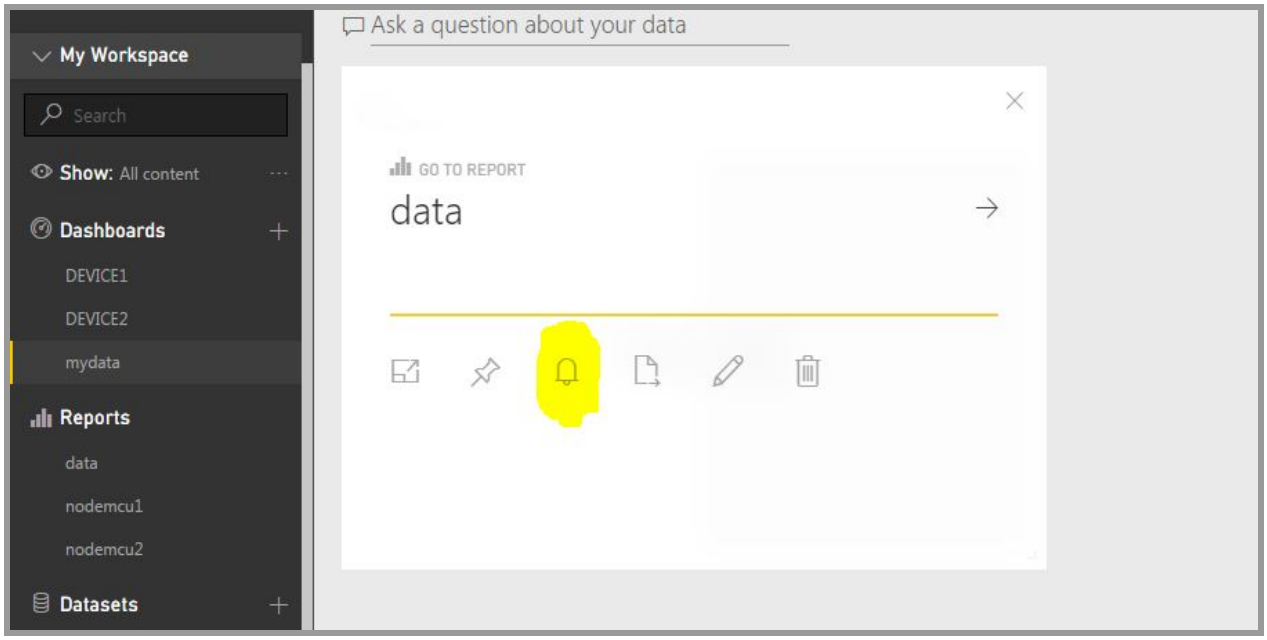
Step 7:Setting up ALERT EMAILS

Power bi offers alert mail feature wherein user gets an email whenever the input value in the report crosses a particular threshold value.

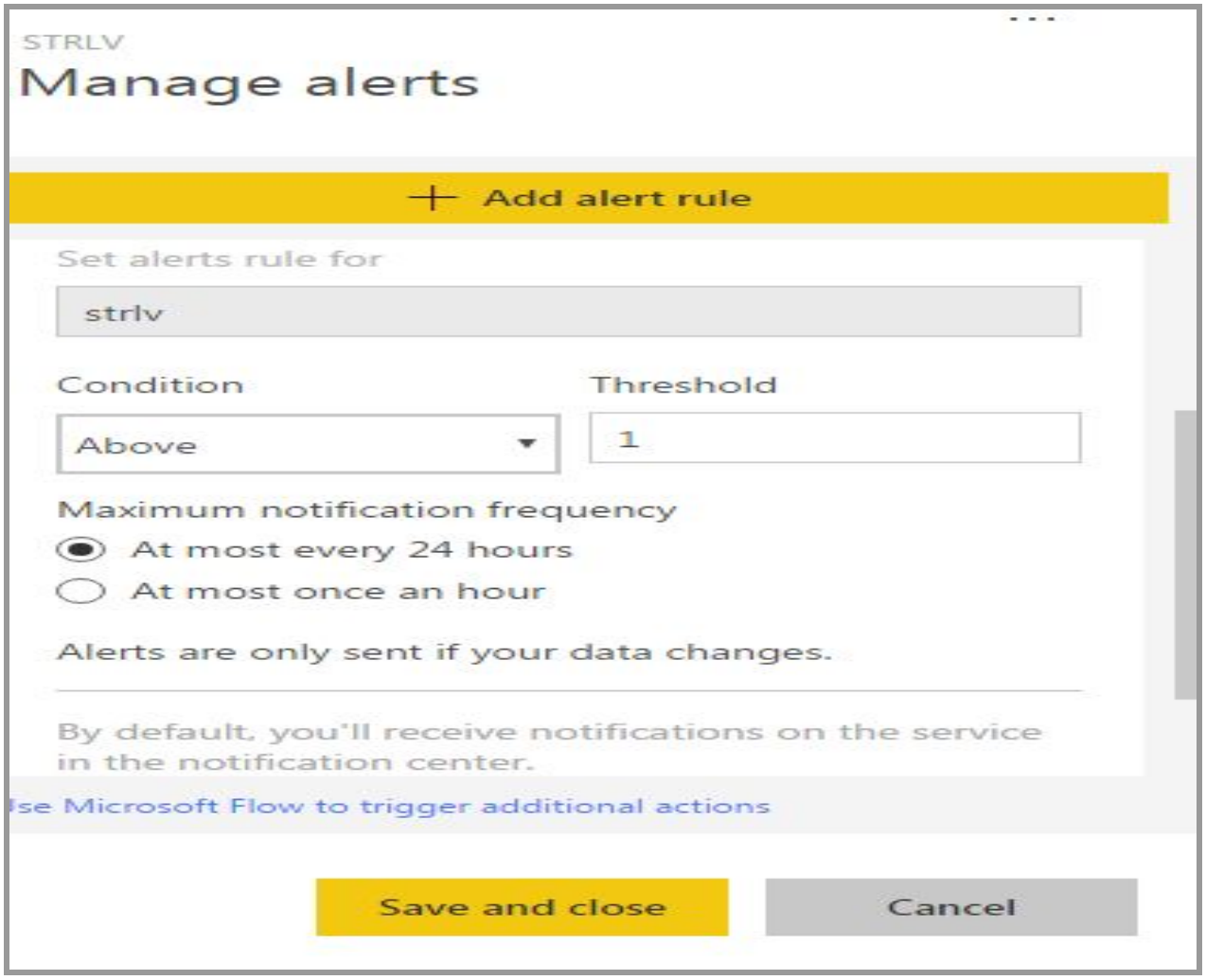
For this purpose here we take KPI type chart from the chart menu(because alert feature is applicable only for the charts that display integer values) and it is as shown below.



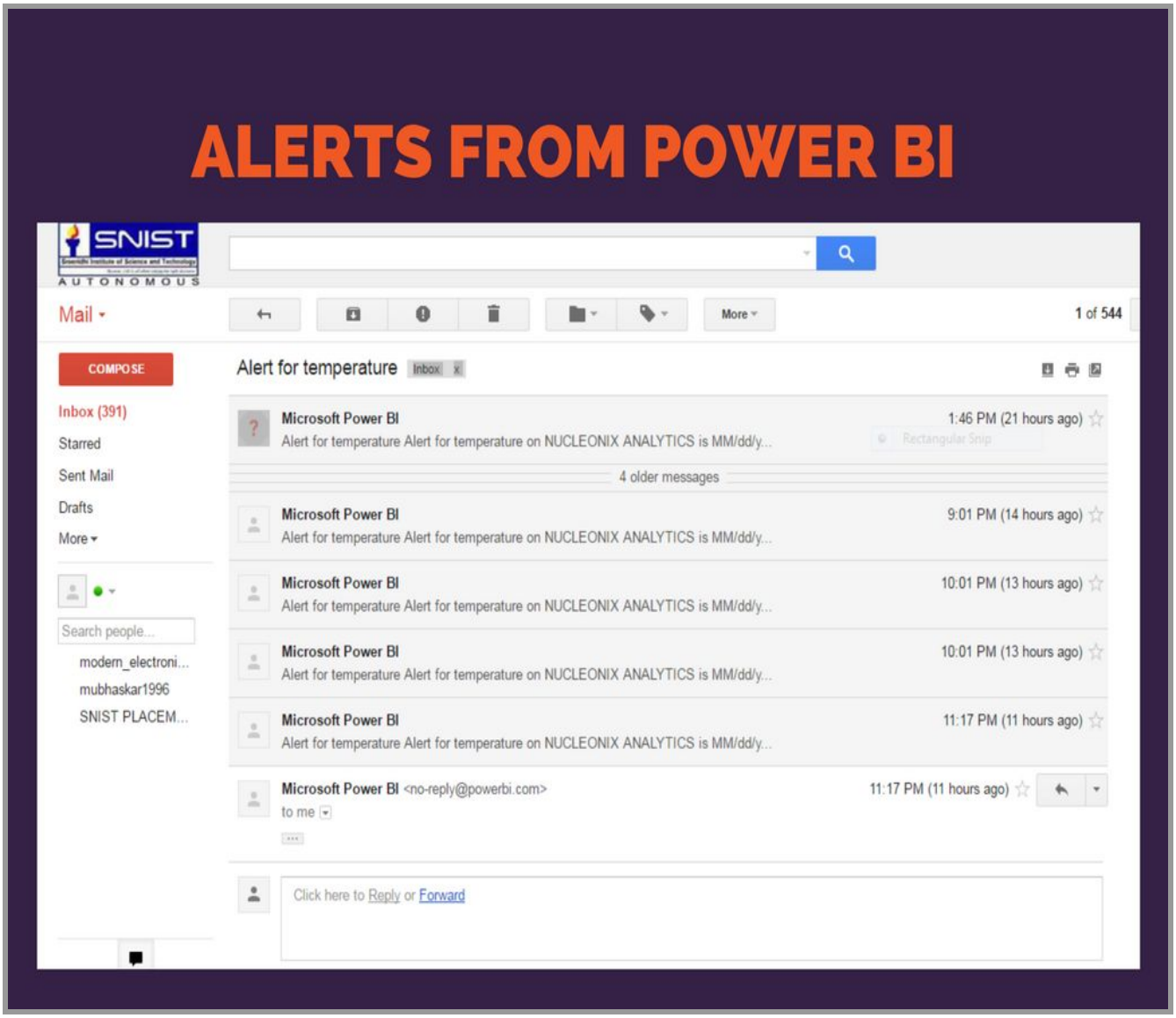
Select the OPEN MENU option (highlighted in the above picture).Following window appears ,then click on the BELL icon as shown below.



Click on Add Alert Rule and specify the title for the alert,parameter for which alert rule has to be applied(in this case for strlv value) and specify the condition ,threshold value.Select the notification frequency then save and close.



The below picture shows the alert email that has been received as the input value is greater than the threshold value.



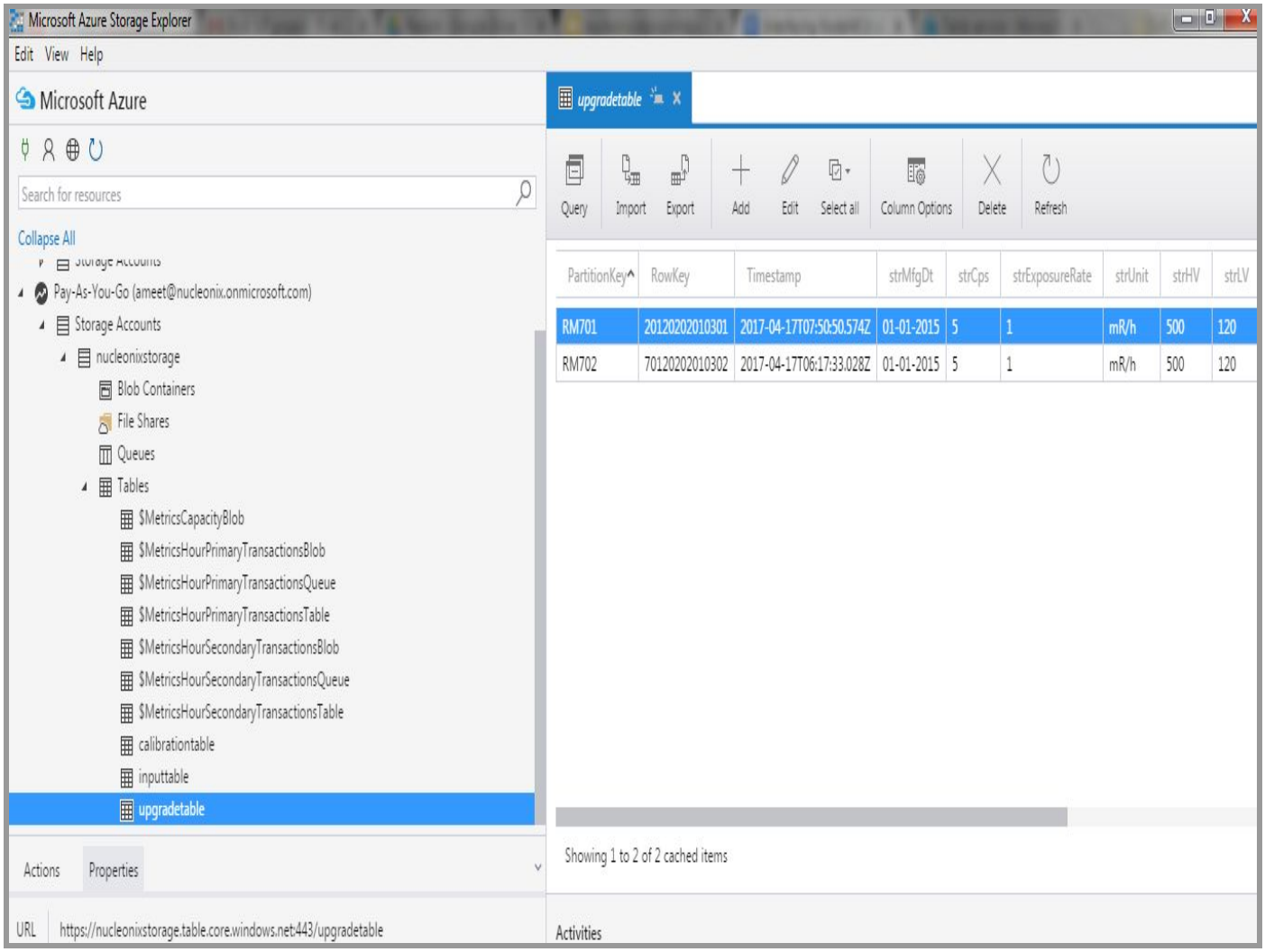
Step 8:Modifying the Device Parameters

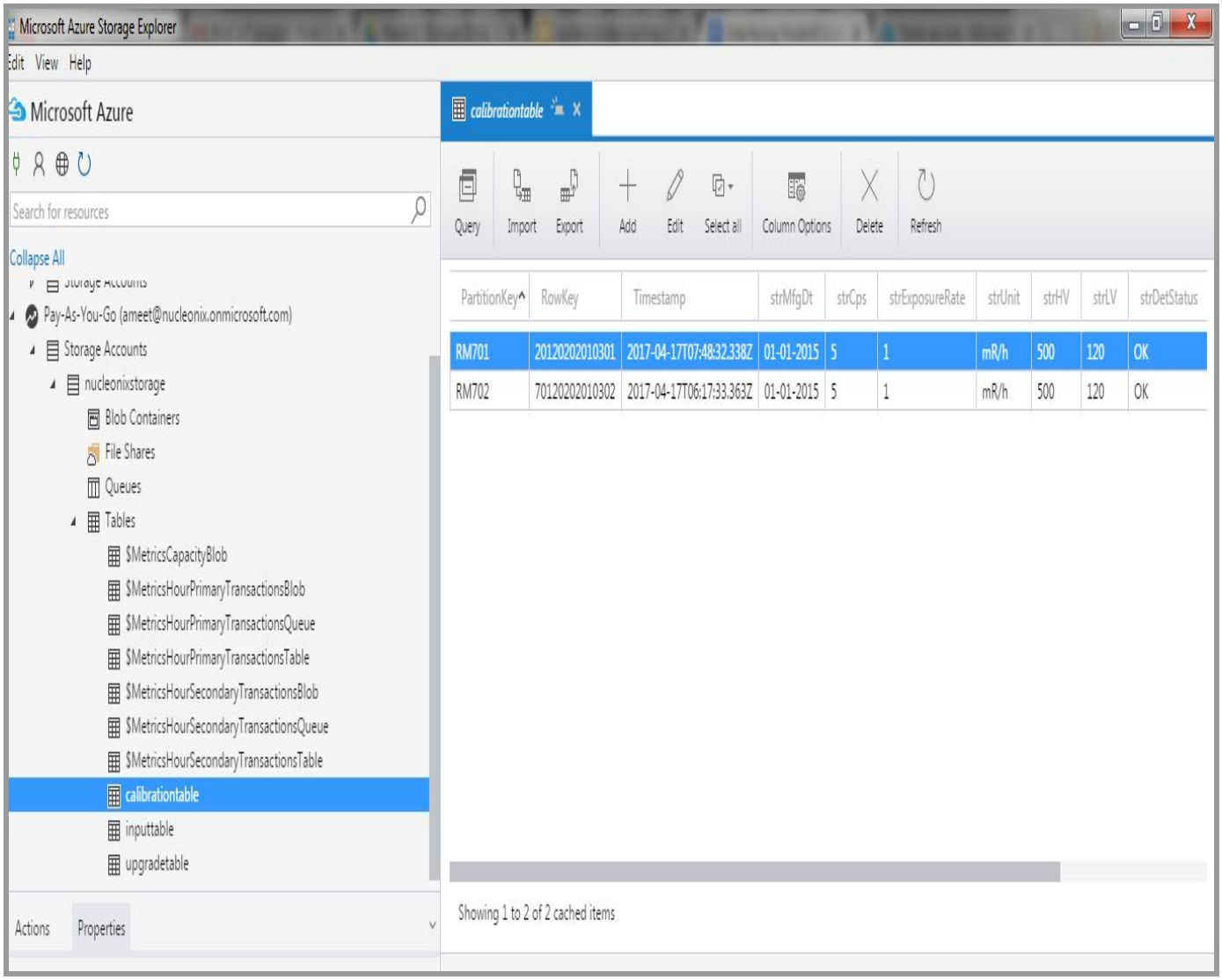
Generating Calibration and Upgradation Alerts

Two new tables are created to store the details of devices which have crossed the calibration months and upgradation years limit. now() function in arduino gives us the current date - time information and the device date of manufacture is specified in the serial data.Hence a difference between these two things gives us the information of when to upgrade the device based on the UpgradationAlertIntervalInYears value specified in input table.It is done as follows

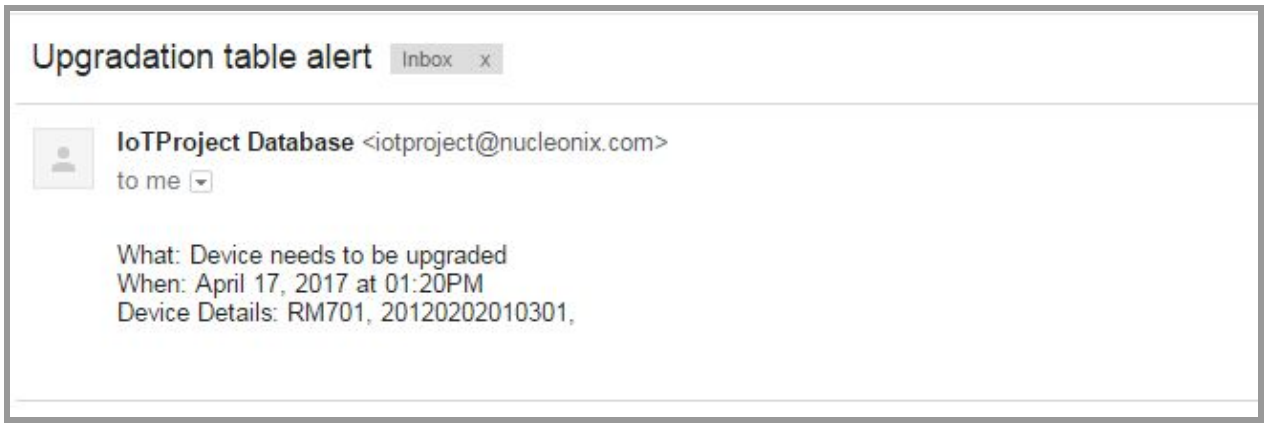
```
if(  currentyear-myear >= gUpgradeAlertIntervalInYears.toInt())
{
  Serial.println("Device needs to be upgraded ");
```

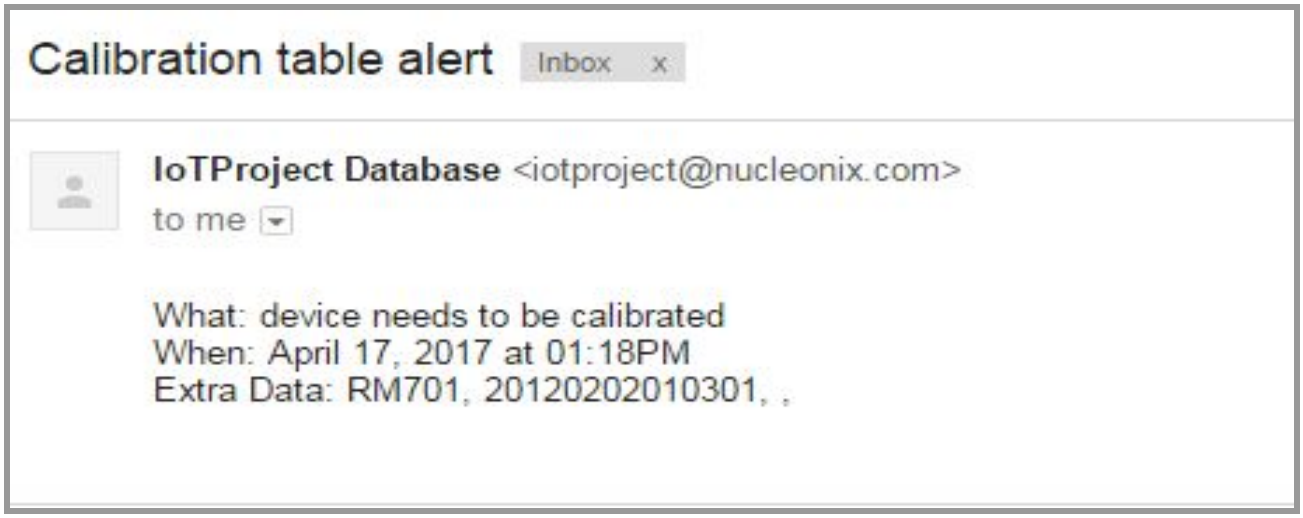
When the above condition is satisfied , POST request is sent to Azure table storage and device details(that are read from serial communication) are updated in the Upgradation table.Similarly for Calibration table.





Once the data is successfully inserted into the table an alert email is sent to the Admin using IFTTT notification service.




Calibration table alert
Inbox x
IoTProject Database <iotproject@nucleonix.com>
to me
What: device needs to be calibrated
When: April 17, 2017 at 01:18PM
Extra Data: RM701, 20120202010301, ,

Sreenidhi Institute of Science and Technology

Department of Computer Science and Engineering

Industrial Project Report on

Biometric Based Attendance

Submitted to

NUCLEONIX SYSTEMS PVT. LTD. INDIA

One of the most significant thing which is absent in this advanced world for each individual is time, with many atomization's coming into the picture. In this existing system, the data from Biometric machines are collected and manual calculations are done to get payable days. These is always possibility of tampering on unauthorized updations of data is manual system.

In our proposed system we are collecting data from Biometric machine and our system is automatically calculating the payable days. This project aims for the atomization of attendance and salary calculation in major organizations but is mainly focused on the principles of Nucleonix system pvt ltd based on the biometric data taken from machines.

INPUTS:

Biometric Based Data
External Inputs – On duty and Overtime Approvals
Initial Carry Forward Leaves
Time period for calculation

OUTPUTS:

Total number of Payable Days

Atomization of Carry forward leaves

Overtime Information (>7 Hrs 45 Min and < 9 Hrs 45 Min with Approval)

Work Less Calculations (<7 Hrs 45 Min)

Filtering of records with 2 in's and 2 outs'

SOFTWARES USED:

SQL Server 2014

Windows 7

VALLAKATLA CHARITH	14311A0565
ITIKALA SHIVA KUMAR REDDY	14311A0527
G. AKSHAY KUMAR	14311A05B6

Under the Guidance of

Dr. ARUNA VARANASI, HOD, CSE

Mrs. K. KRISHNA JYOTHI, Assistant Professor, CSE Dept

Mr. D RAM BABU, Assistant Professor, CSE Dept

Head of the Department

CSE, SNIST

Sreenidhi Institute of Science and Technology

Department of Computer Science and Engineering

Industrial Project Report on

ANTI CORRUPTION

Submitted to

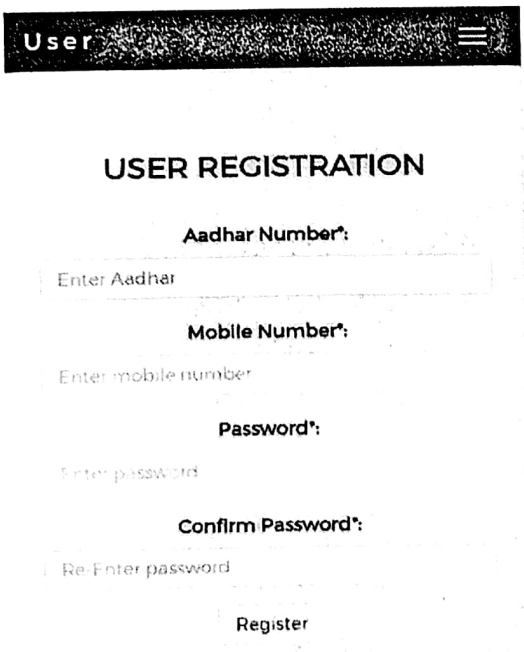
NUCLEONIX SYSTEMS PVT. LTD. INDIA

USERS

Users are expected to download app from play store. To use this app, the users must first register by providing their personal details like Aadhaar number, mobile number etc.

After registration, they can login using their Aadhaar number and password. The following snapshot explains the registration and login.

User Registration:



User Login:

Anti Corruption

User Login

Aadhar Number:

Enter aadhar number

Password:

Enter password

Login

After the user logs in, two tabs are visible, they are "**ADD COMPLAINT**" and "**VIEW COMPLAINT**". If the user wants to add a complaint, he/she must click the add complaint button. The following snapshot shows this process.

After Login:

COMPLAINTS

What we offer

ADD NEW COMPLAINT

Add a new complaint ..

VIEW COMPLAINTS

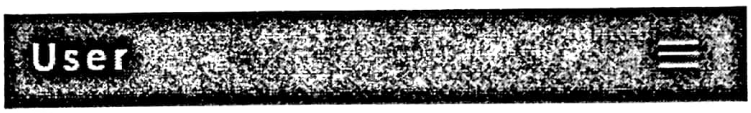
View your previous complaints..

By clicking add new complaint button it will enable the user to add complaint. This process is as explained below:

Add Complaint

The user shall fill the below form containing details like department, location, name of officer designation, nature of complaint, date of incident, amount demanded etc. Proofs like Audio/Video/Documents can also be uploaded. After the complaint is posted, an email & SMS is sent to the concerning officials of the department.

The following snapshots demonstrate this process.



ADD NEW COMPLAINT

Select Department:*

Select department

Select Area:*

Select department first

Name of Govt Office:*

Enter govt office name

City / Town:

City

Employee Name:*

Enter employee name

Employee Designation:*

Enter employee designation

Complaint type:*

Denying application

Complainant Aadhar Number:*

Complainant Mobile Number:*

8096781291

Date of Incident:

Enter date of incident DD-MM-YYYY

Complaint details:

Enter reason to complain

Amount Demanded:

Enter amount demanded

Application details*:

Choose File No file chosen

Upload Proof, if any:

Choose File No file chosen

SUBMIT

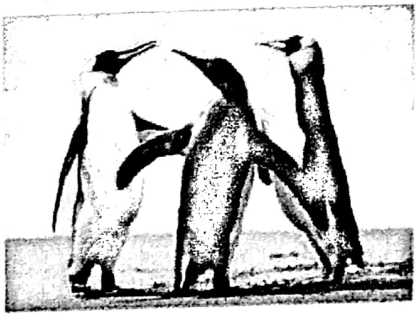
Complaint View

On clicking the view complaint tab, The users can see their previous complaints and view status of them. User can close the complaint by clicking the "**CLOSE COMPLAINT**" button. They can also provide comments to it.

COMPLAINT 19

Complaint No	19
DeptName	Home
AreaName	Chikkadpally
Name of Govt Office	Fire Station
City (or) Town	City
EmpName	Charan Babu
EmpDesign	S.I
Complaint type	Delay in doing work
Complaint details	djkasgf
CashDemanded	5000
DaysAgo	3 weeks
Application Document	download

Proof



Fullview

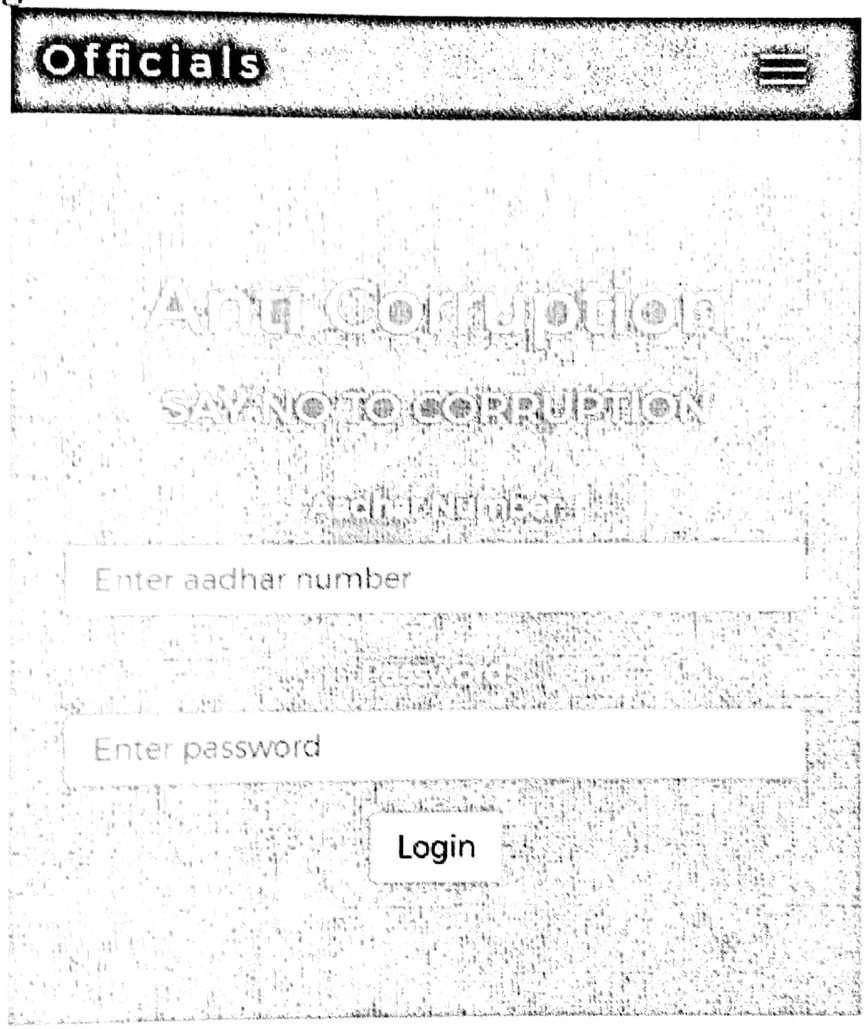
Close Complaint

Status Box

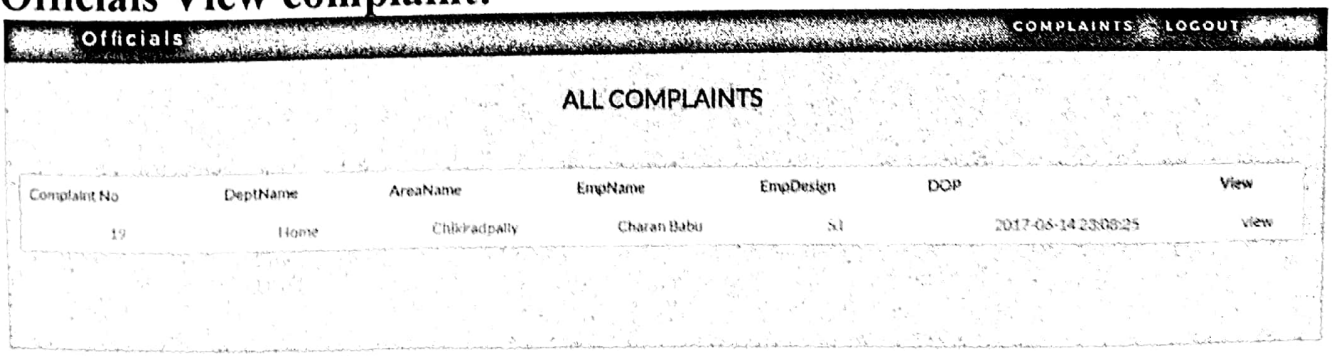
OFFICIALS

The password will be provided by admin. The username is their Aadhar number. They must login using their Aadhar number and password. After successfully logging in, the complaints concerned to them based on their area and department, are visible. The officials can provide the status updates to the complaint in the form of comment. The following snapshot shows officials login

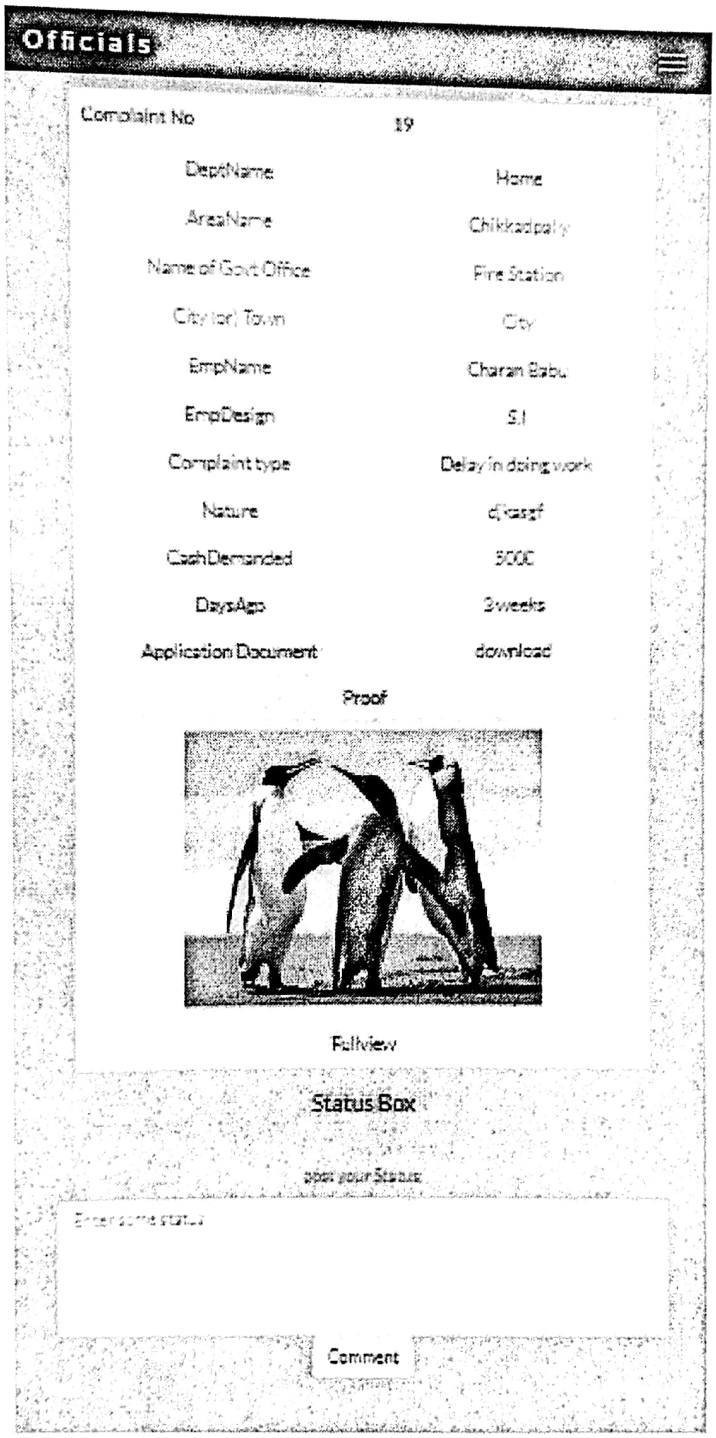
Officials Login:



Officials View complaint:



Officials View Complaint:

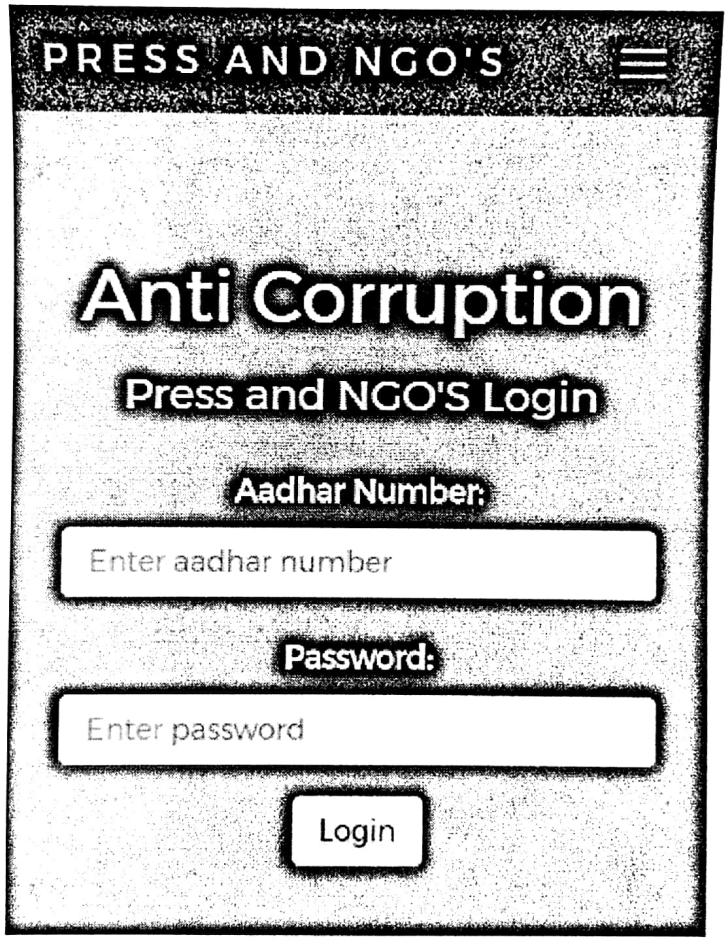


STAKEHOLDERS (PRESS & NGO's)

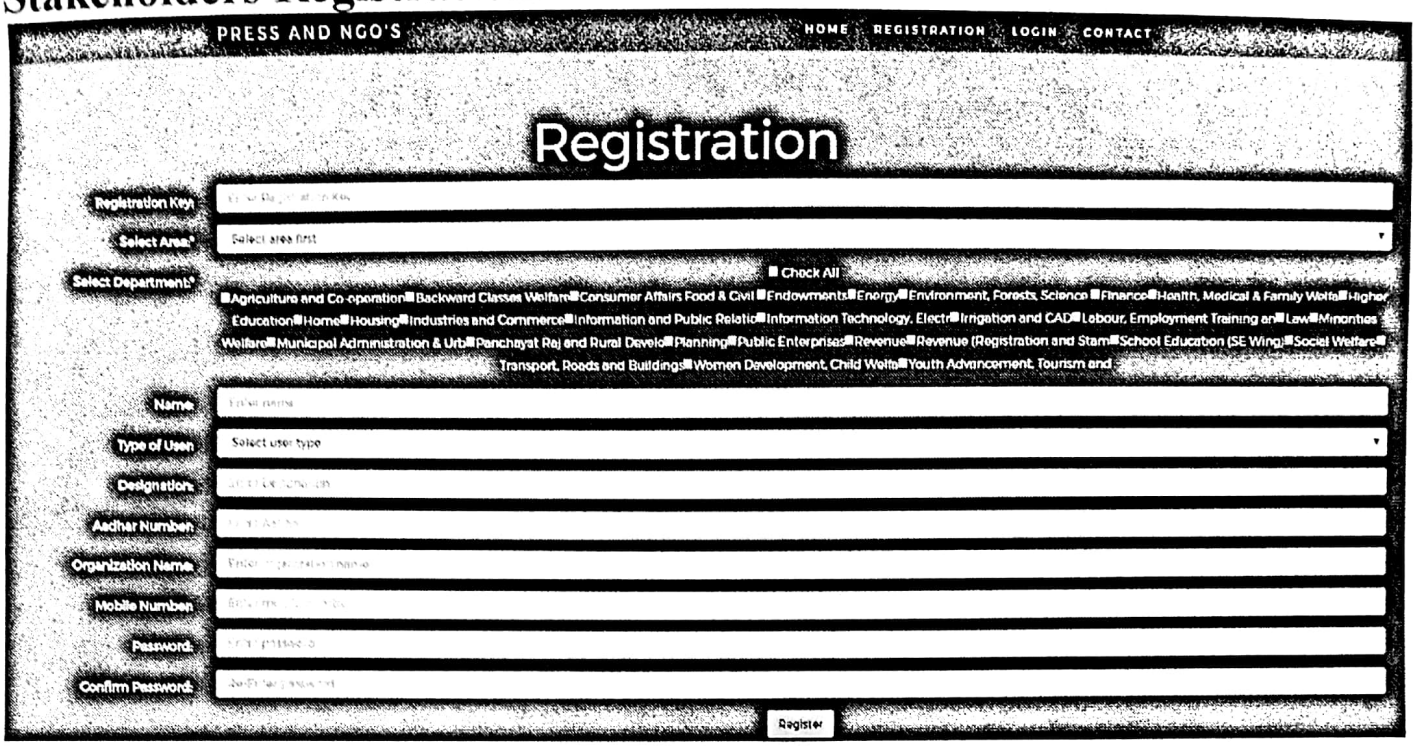
To register, they must first obtain the registration key from the admin. Using this key they can register. While registering they need to provide their concerned area and departments, they want to observe. They must login using their Aadhar number and password.

After successfully log in, the complaints concerned to them are visible. They can view and add comments.

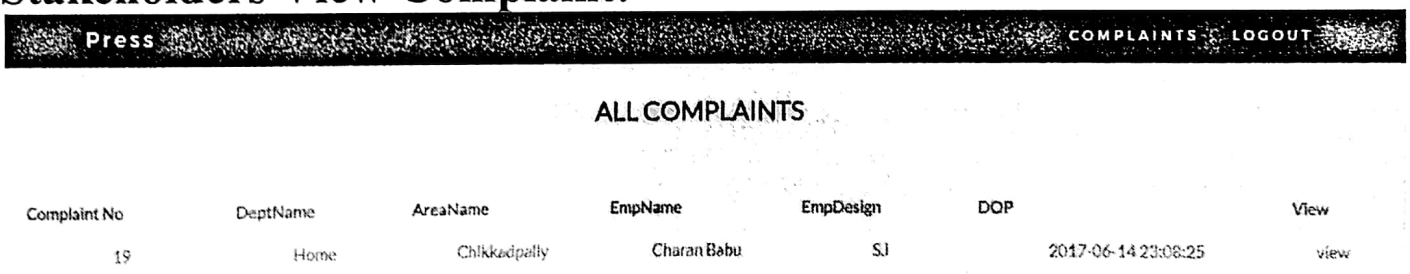
Stakeholders Login:



Stakeholders Registration:



Stakeholders View Complaint:

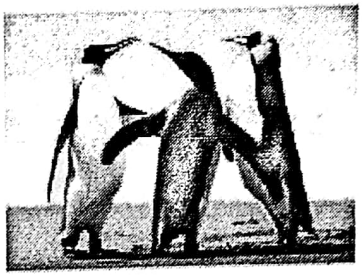


Stakeholders Comment view:

Press

Complaint No	19
DeptName	Home
AreaName	Chirakapally
Name of Govt Office	Fire Station
City (or) Town	City
EmpName	Charan Babu
EmpDesign	SI
Complaint type	Delay in doing work
Complaint details	djksagf
CashDemanded	5000
DaysAgo	3 weeks
Application Document	download

Proof



Fullview

Status Box

post your Status

Enter some status

Comment

Mr. M. Charan Babu
Assistant Professor
CSE Dept, SNIST