SPRINT 1

Team id: PNT2022TMID49101

Project name: smart waste management for metropolitan cities

Create and configure IBM cloud services

Create IBM Watson IoT Platform And Device

IBM Watson IoT Platform is a complete end-to-end solution for IoT needs. It integrates a bundled set of services to connect, capture, register, analyze, and archive your IoT devices and data.

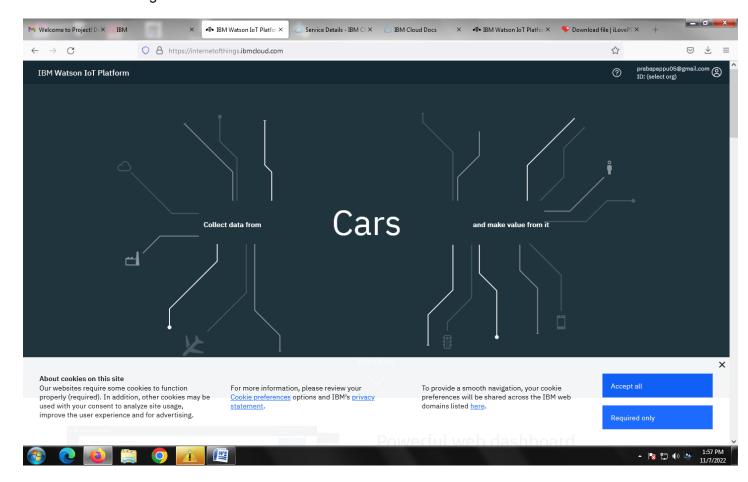
This is part two of a two-part series. This document is a simple, easy to follow process toconnect a device to IBM Watson IoT Platform. It will go through connecting via an MQTT connection.

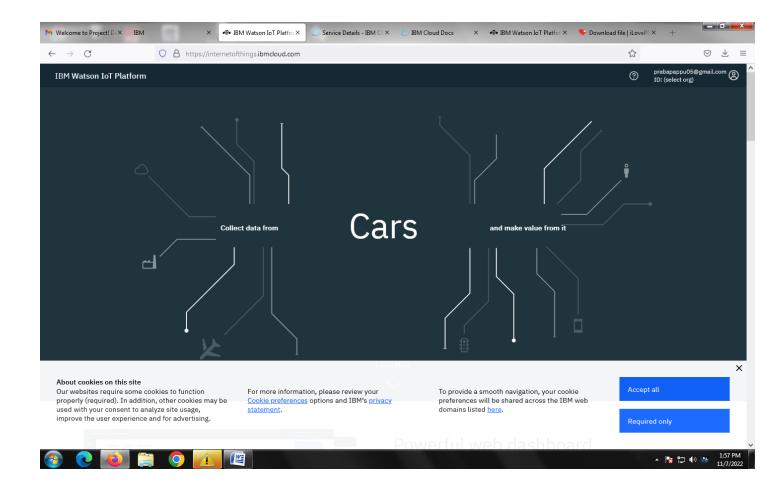
I. Login to IBM Watson IoT Platform to Verify Connection

STEP1:

Go to URL - https://internetofthings.ibmcloud.com/

Click Sign in



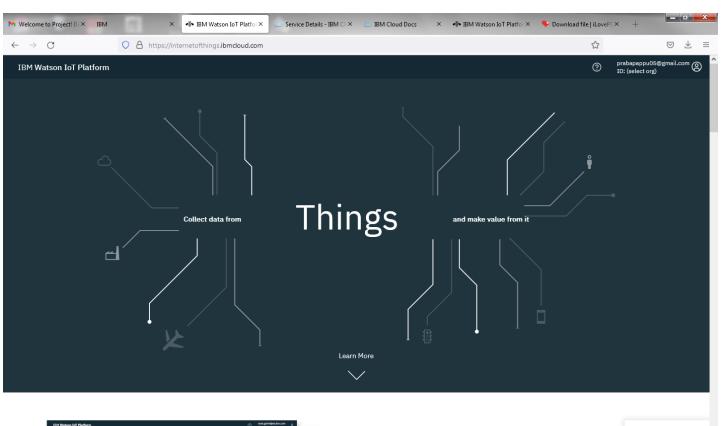


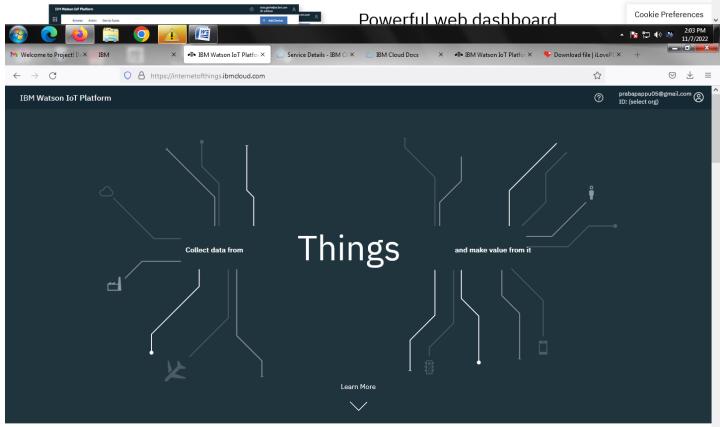
STEP2:

Enter an IBMid and click Continue (Click Remember Me if you want)

Enter the Password and click Login (Click Remember Me if you want)

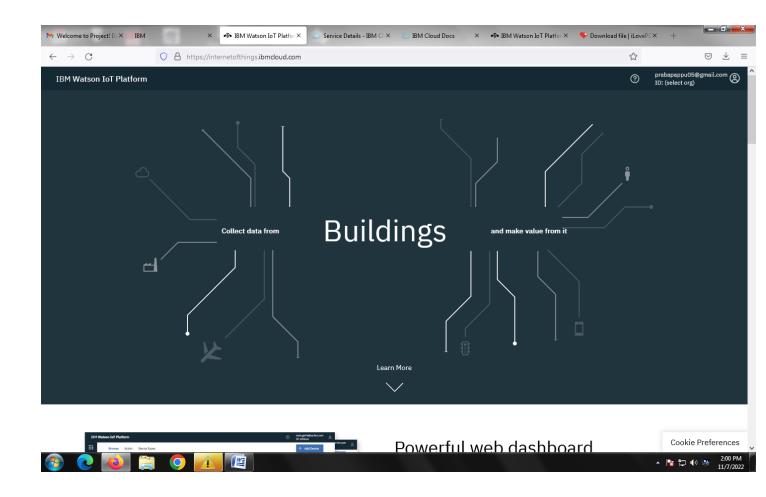
You are now logged into IBM Watson IoT Platform



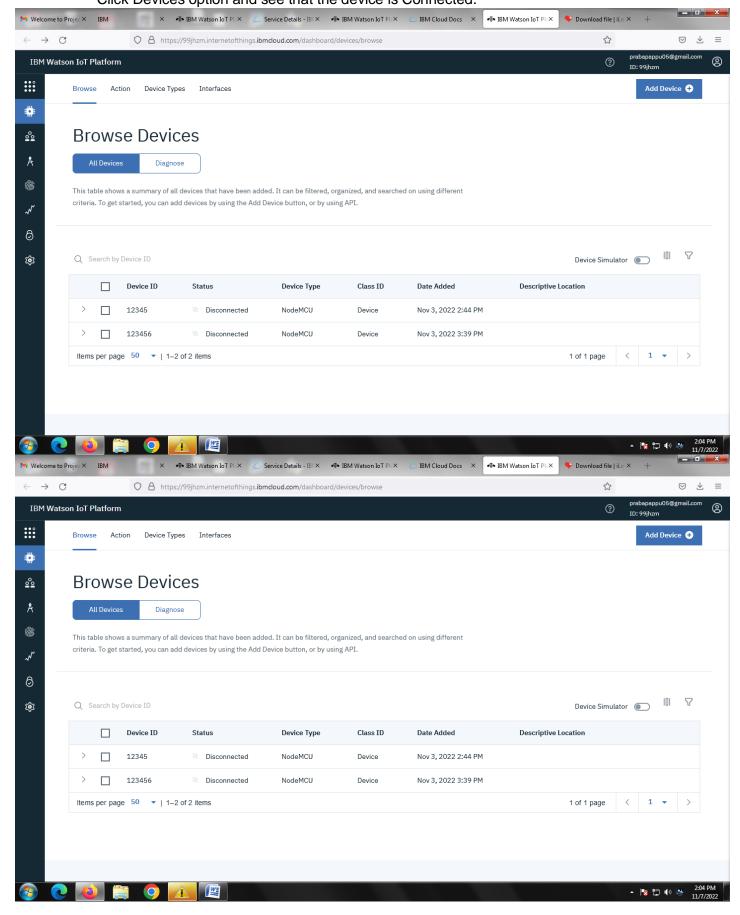


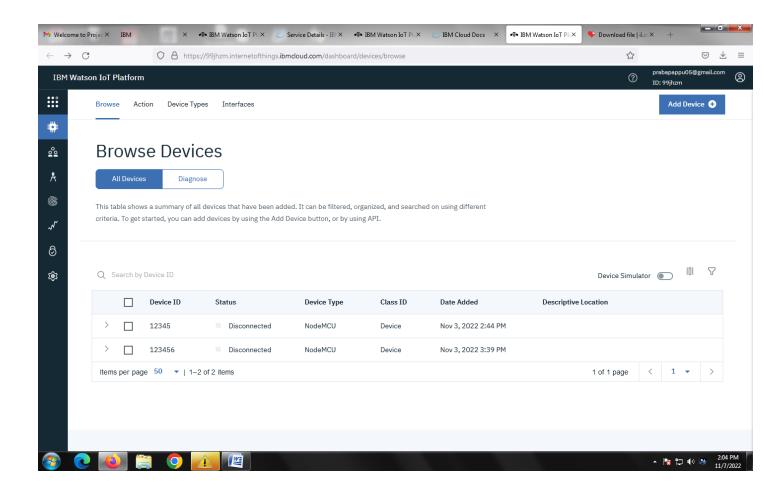
STEP3:

Click select org

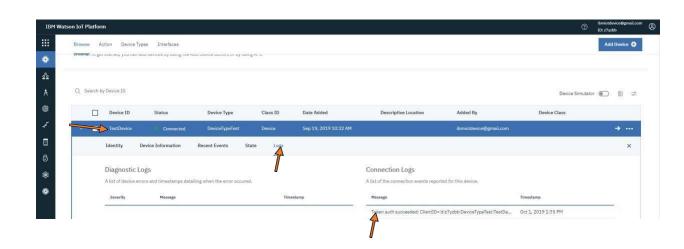


STEP4:
Click Devices option and see that the device is Connected.



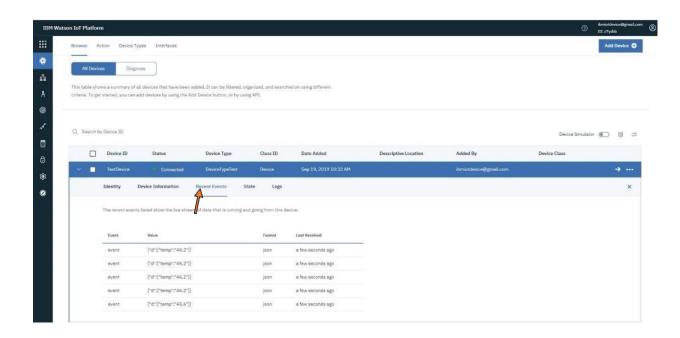


STEP 5: Click the device and Logs and see that the connection was made



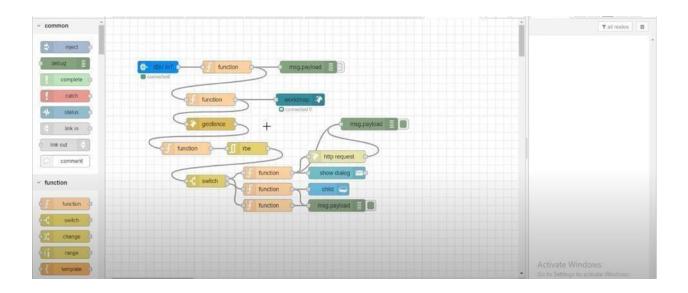
STEP6:

Click Recent Events and see the data that was sent from the device to IBM WatsonIoT Platform .

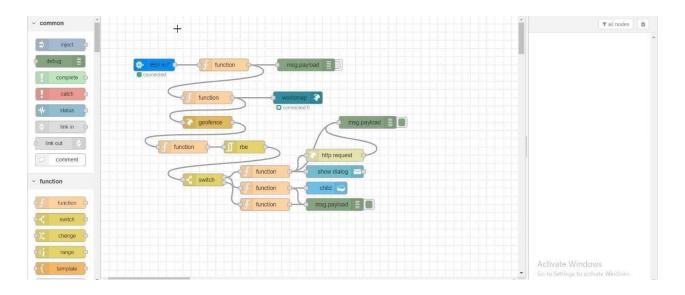


NODE RED SERVICE

Step 1: Connect the blocks.



Step 3: Click the geo-fence node.

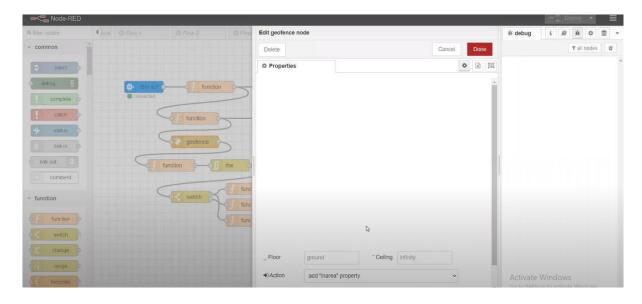


Step 4: Create the geo-fence area in the map.

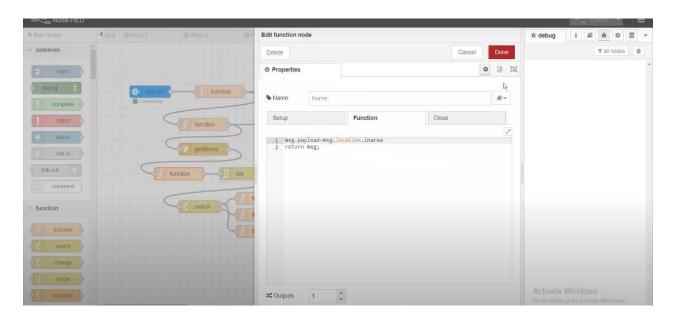


5: Create geo-fence in a particular area.

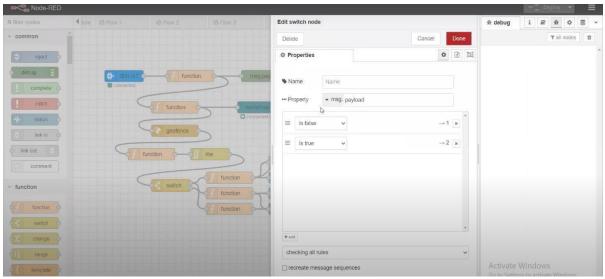




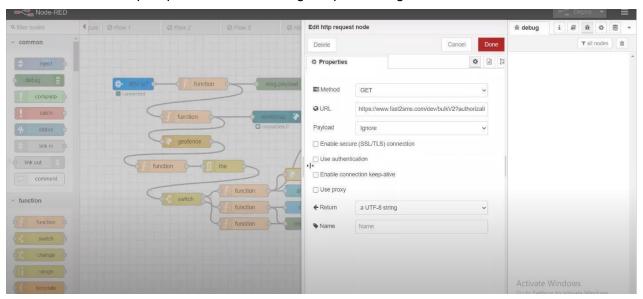
Step 7: Select the message payload.



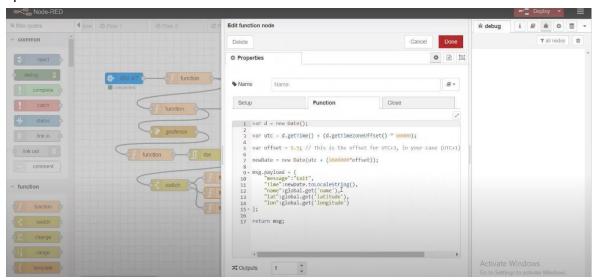
Step 8: To identify the person in area.



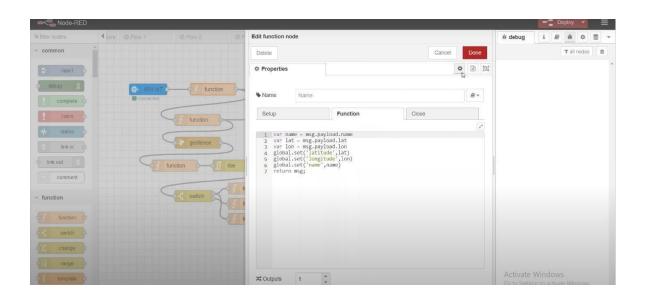
9: Select the http request to send message to parent or guardian.

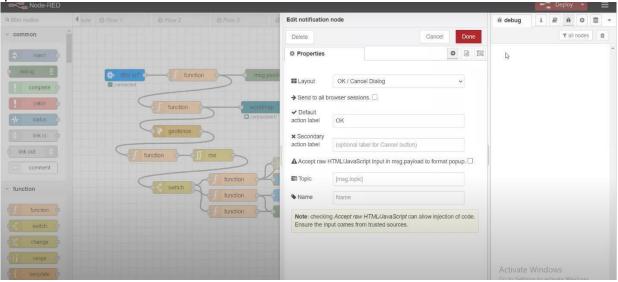


Step 10: For sending the message with time.



10: Click show dialog for notifying the popup alert.





Step 11: Create another payload and to pass the data to geo-fence and world map.

12: Click the world map to see the location.

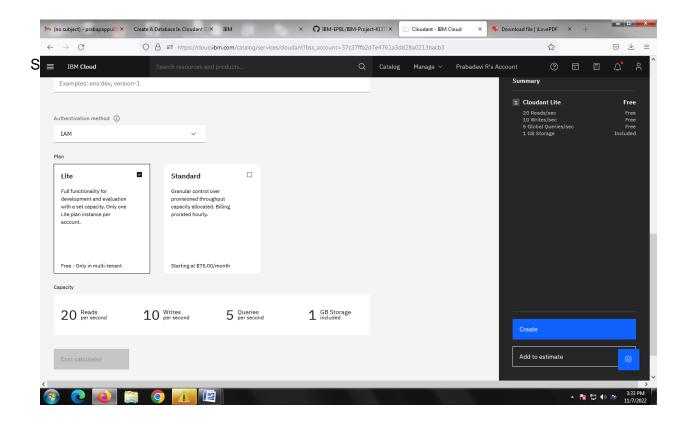


Create A Database In Cloudant DB

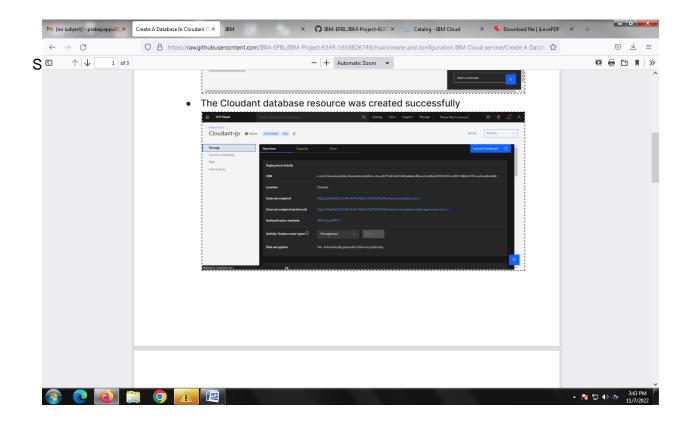
Aim: To create a database in Cloudant DB to store location data.

Steps followed:

- Logged in to IBM Cloud account
- Navigated to `./resources`
- Clicked on the "Create Resource +" button
- Searched for "Cloudant"
- Chose the "Lite Version" and clicked on "Create"

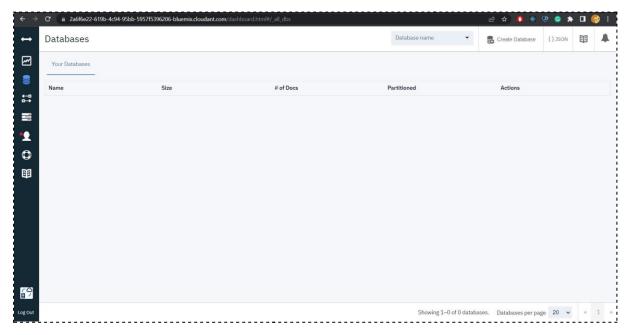


• The Cloudant database resource was created successfully



• Clicked on Launch Dashboard

Step



 Clicked on "Create Database". Entered "PRABADEVI" as the databasename and the "Non-partitioned" option



• The database "PRABADEVI" was created successfully

Step



Result:

A database to store the location data was created successfully onCloudant DB