

Delivery of Sprint-3

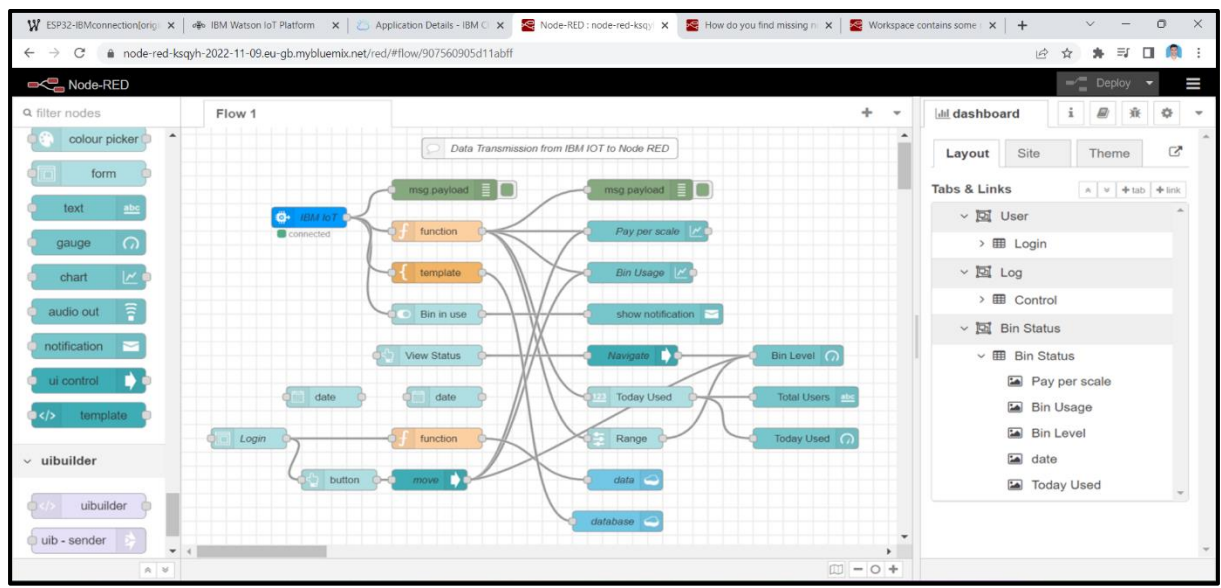
DATE	07 November 2022
Team ID	PNT2022TMID15172
Project Name	Project : Smart Waste Management System For Metropolitan Cities

Work Done in Sprint-3:

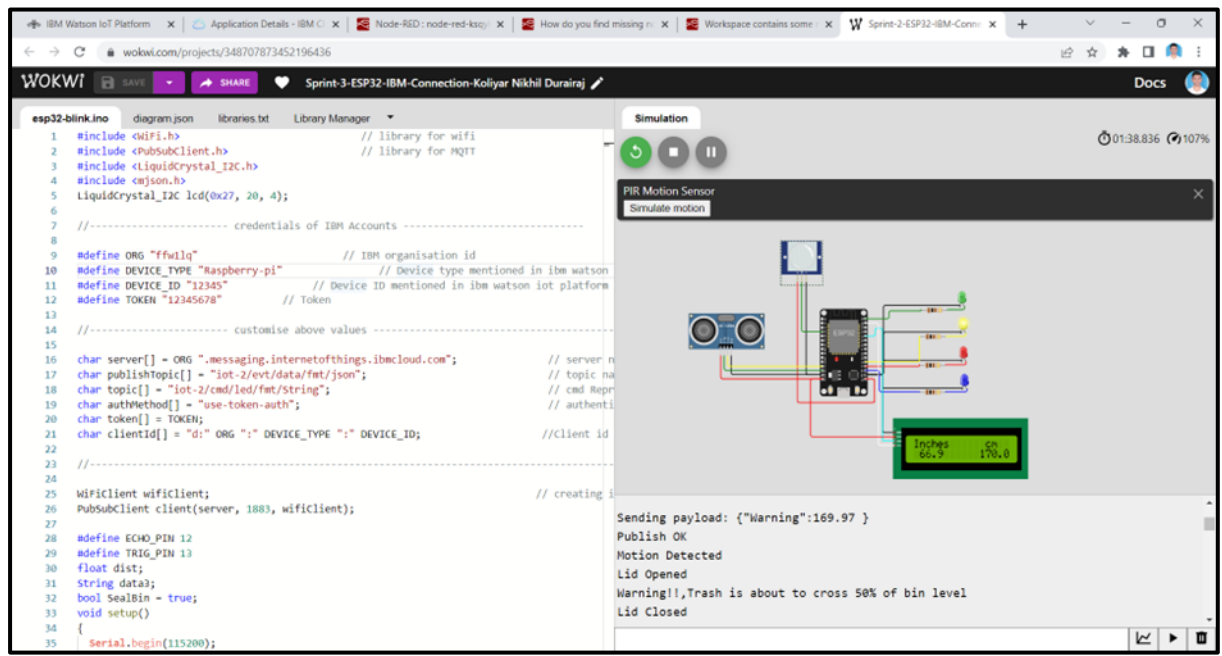
Node-RED Connection to IBM Cloud:

The Data from IBM Watson IoT Platform is sent to Node-RED:

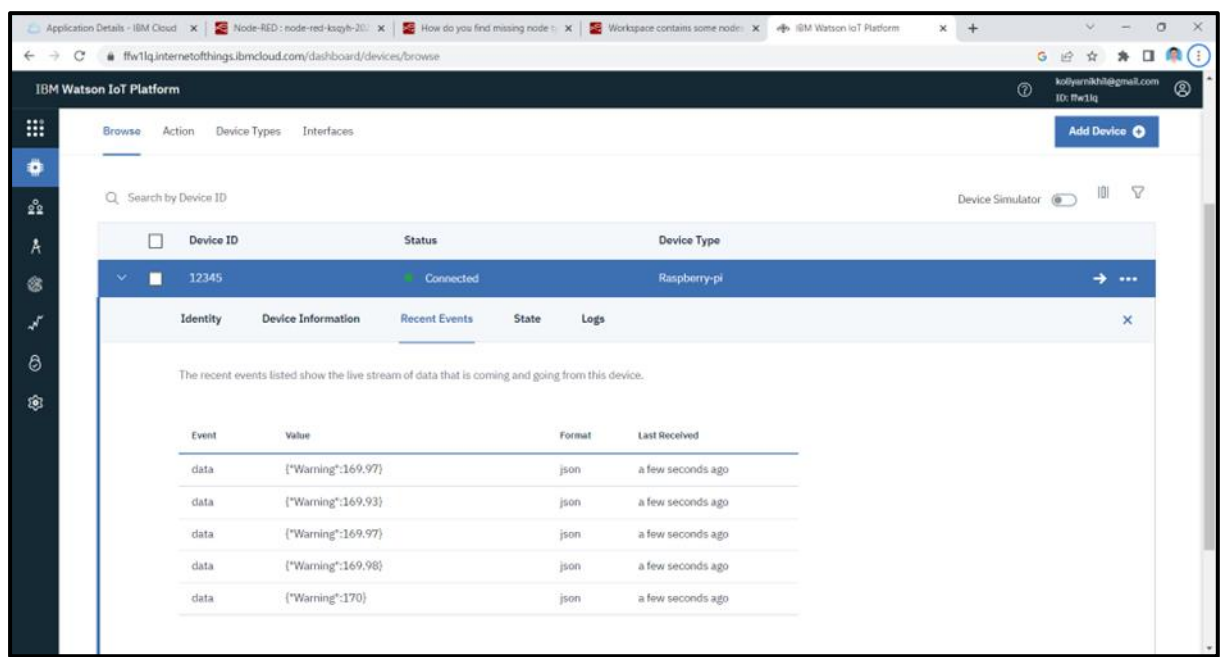
1. Node-RED Connection Setup for Data Transmission from IBM Watson IoT Platform to Node-RED:



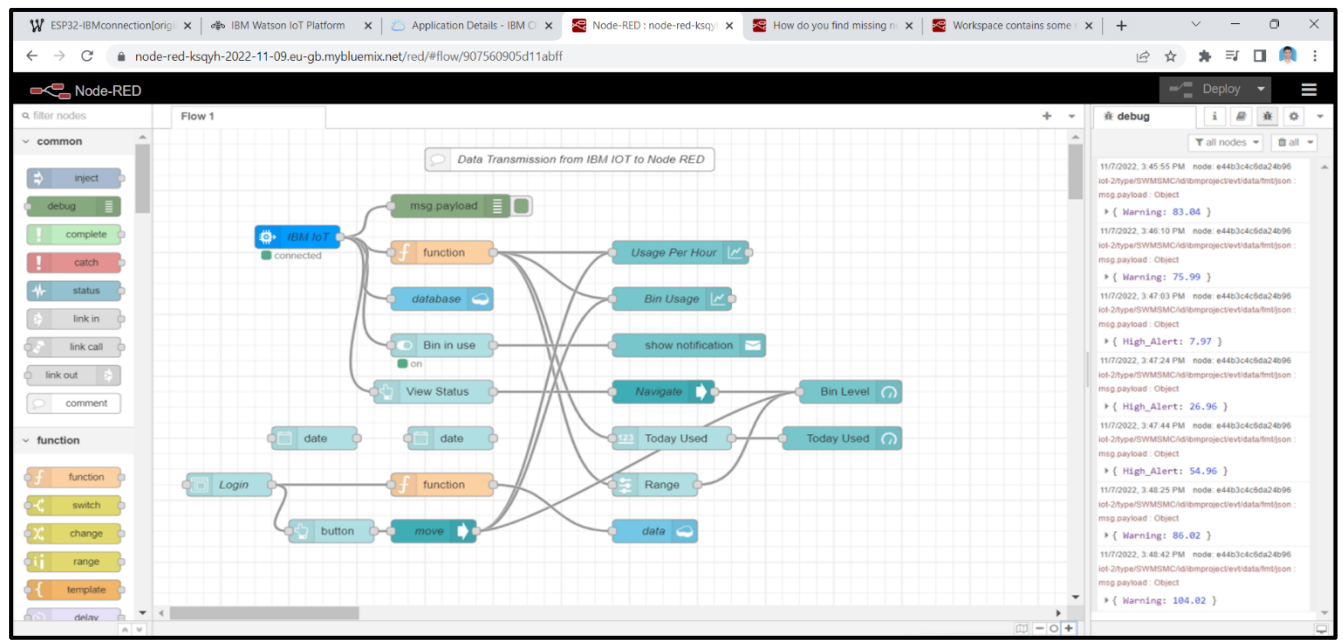
2. Wokwi Simulation Circuit to transmit data from Wokwi account to IBM Watson IoT platform and then to Node RED:



3. Data Transfer to Watson IoT Platform:



4. Data Transfer from IBM Watson IoT Platform to Node-RED:



5. Storing database in IBM Cloudant DB:

←

→

↺

ee6aeb4a-3006-499e-940e-af19edf953bf-bluemix.cloudant.com/dashboard.html#/all_dbs

🔗

☆

☐

👤

⋮

↔

Databases

Database name ▾

🗄️

Create Database

{ }

JSON

📖

🔔

📈

🗄️

↔

📋

👤

🎧

📖

☁️

Log Out

Your Databases

Name	Size	# of Docs	Partitioned	Actions
login_credentials	13.7 KB	111	No	<div>↔</div> <div>🔒</div> <div>🗑️</div>
noderedwjlidy20221105	37.4 KB	4	No	<div>↔</div> <div>🔒</div> <div>🗑️</div>
sample	59.4 KB	351	No	<div>↔</div> <div>🔒</div> <div>🗑️</div>
sensor_data	15.7 KB	90	No	<div>↔</div> <div>🔒</div> <div>🗑️</div>

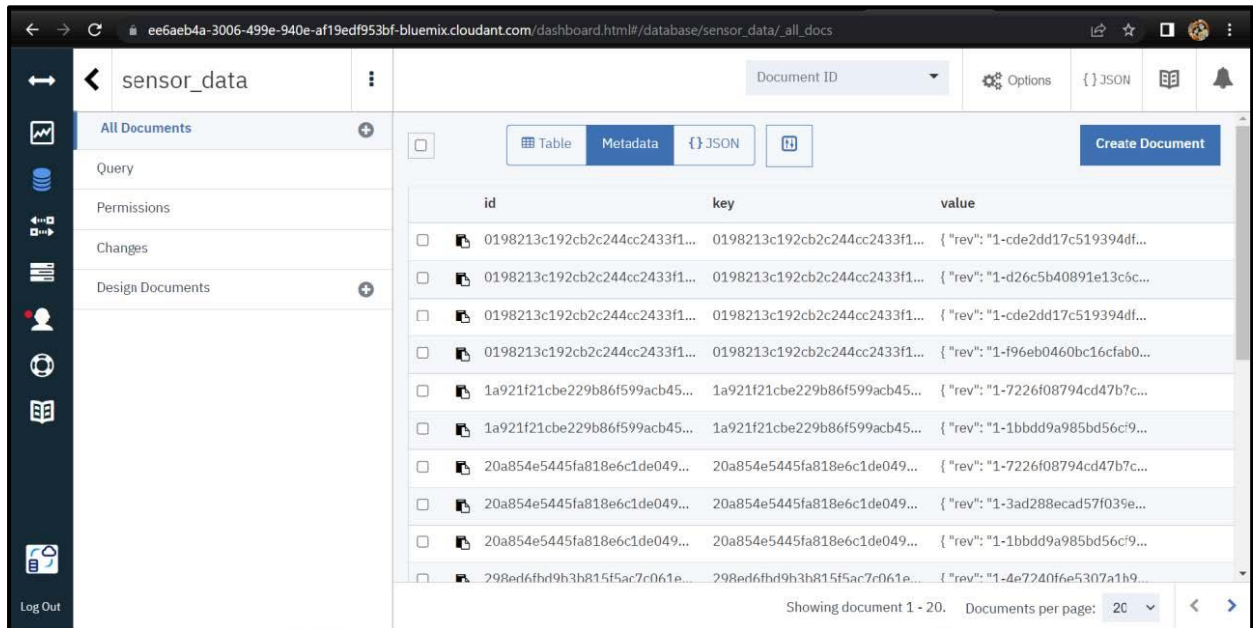
Showing 1–4 of 4 databases. Databases per page 20 ▾

«

1

»

Sensor Data:

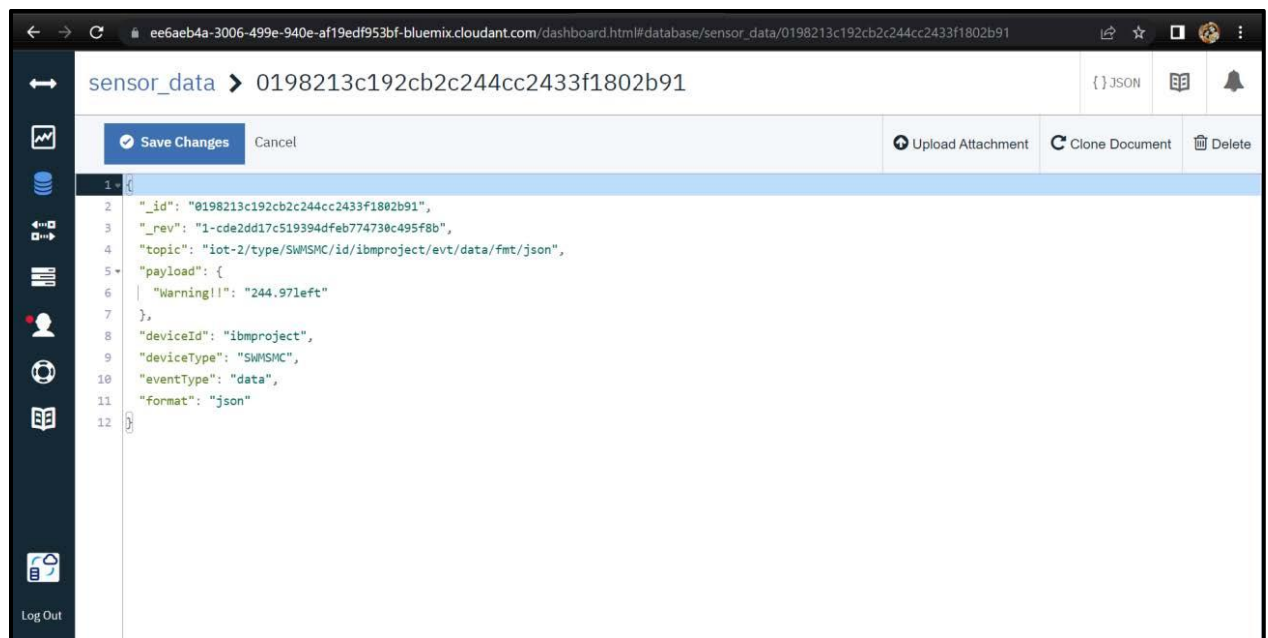


The screenshot shows the IBM Cloudant dashboard for a database named 'sensor_data'. The interface includes a sidebar with navigation options like 'All Documents', 'Query', 'Permissions', 'Changes', and 'Design Documents'. The main area displays a table of documents with columns for 'id', 'key', and 'value'. The 'value' column shows JSON snippets, indicating that the data is stored in JSON format. A 'Create Document' button is visible in the top right corner.

id	key	value
0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1...	{ "rev": "1-cde2dd17c519394df...
0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1...	{ "rev": "1-d26c5b40891e13c5c...
0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1...	{ "rev": "1-cde2dd17c519394df...
0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1...	{ "rev": "1-f96eb0460bc16cfab0...
1a921f21cbe229b86f599acb45...	1a921f21cbe229b86f599acb45...	{ "rev": "1-7226f08794cd47b7c...
1a921f21cbe229b86f599acb45...	1a921f21cbe229b86f599acb45...	{ "rev": "1-1bbdd9a985bd56cf9...
20a854e5445fa818e6c1de049...	20a854e5445fa818e6c1de049...	{ "rev": "1-7226f08794cd47b7c...
20a854e5445fa818e6c1de049...	20a854e5445fa818e6c1de049...	{ "rev": "1-3ad288ecad57f039e...
20a854e5445fa818e6c1de049...	20a854e5445fa818e6c1de049...	{ "rev": "1-1bbdd9a985bd56cf9...
298ed6fhd9b3b815f5ac7c061e...	298ed6fhd9b3b815f5ac7c061e...	{ "rev": "1-4e7240f6e5307a1b9...

Showing document 1 - 20. Documents per page: 20

6. Data is stored in JSON Format:



The screenshot shows the IBM Cloudant dashboard for a specific document in the 'sensor_data' database. The document ID is '0198213c192cb2c244cc2433f1802b91'. The document content is displayed in JSON format, showing fields like '_id', '_rev', 'topic', 'payload', 'deviceId', 'deviceType', 'eventType', and 'format'. The 'format' field is set to 'json', confirming that the data is stored in JSON format.

```
1 {
2   "_id": "0198213c192cb2c244cc2433f1802b91",
3   "_rev": "1-cde2dd17c519394df774730c495f8b",
4   "topic": "iot-2/type/SWMSMC/id/ibmproject/evt/data/format/json",
5   "payload": {
6     "Warning!!": "244.971e4t"
7   },
8   "deviceId": "ibmproject",
9   "deviceType": "SWMSMC",
10  "eventType": "data",
11  "format": "json"
12 }
```