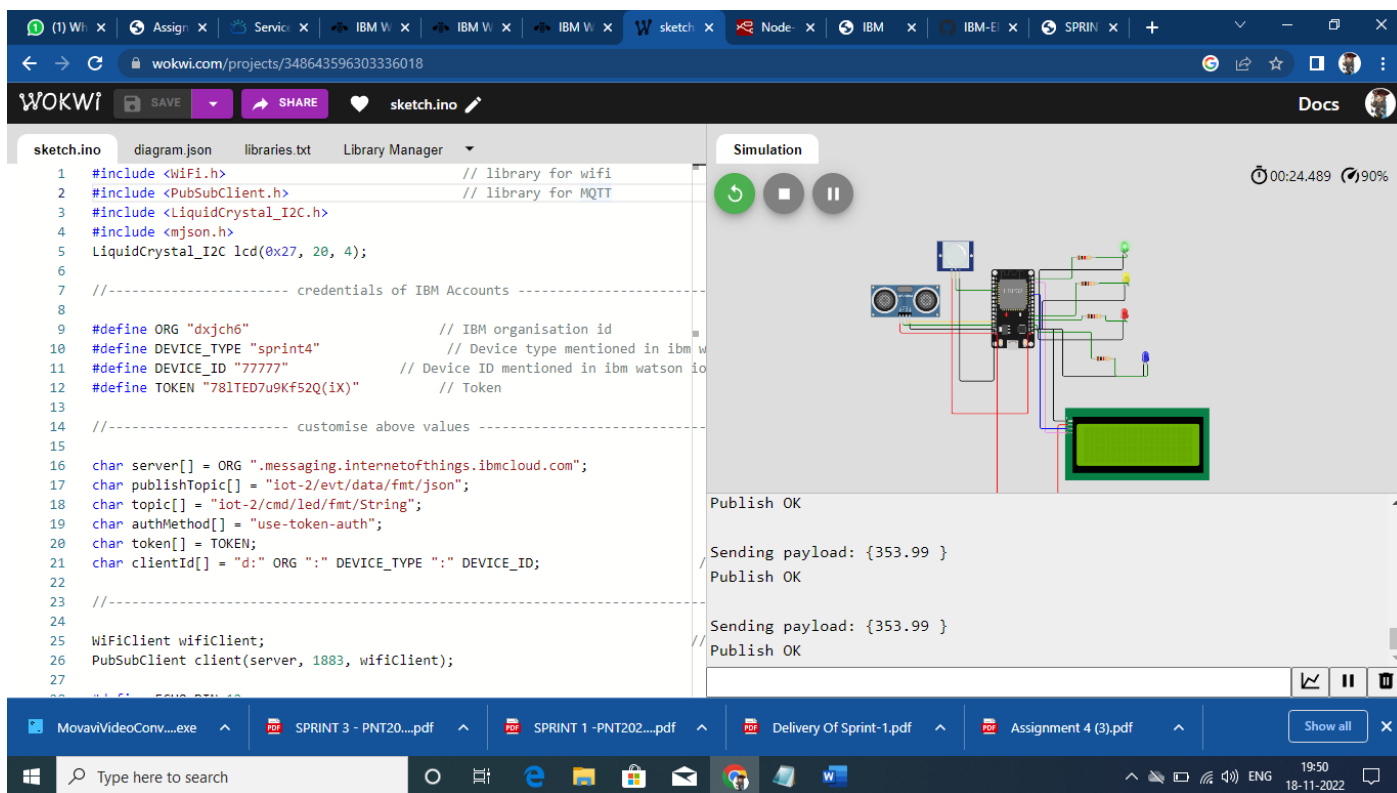


Delivery of Sprint – 4

Date	5 November 2022
Team ID	PNT2022TMID36751
Project Name	Smart Waste Management for Metropolitan Cities

1. Simulate Wokwi connection to transmit data from wokwi account to IBM Watson IOT platform and then to Node Red dashboard

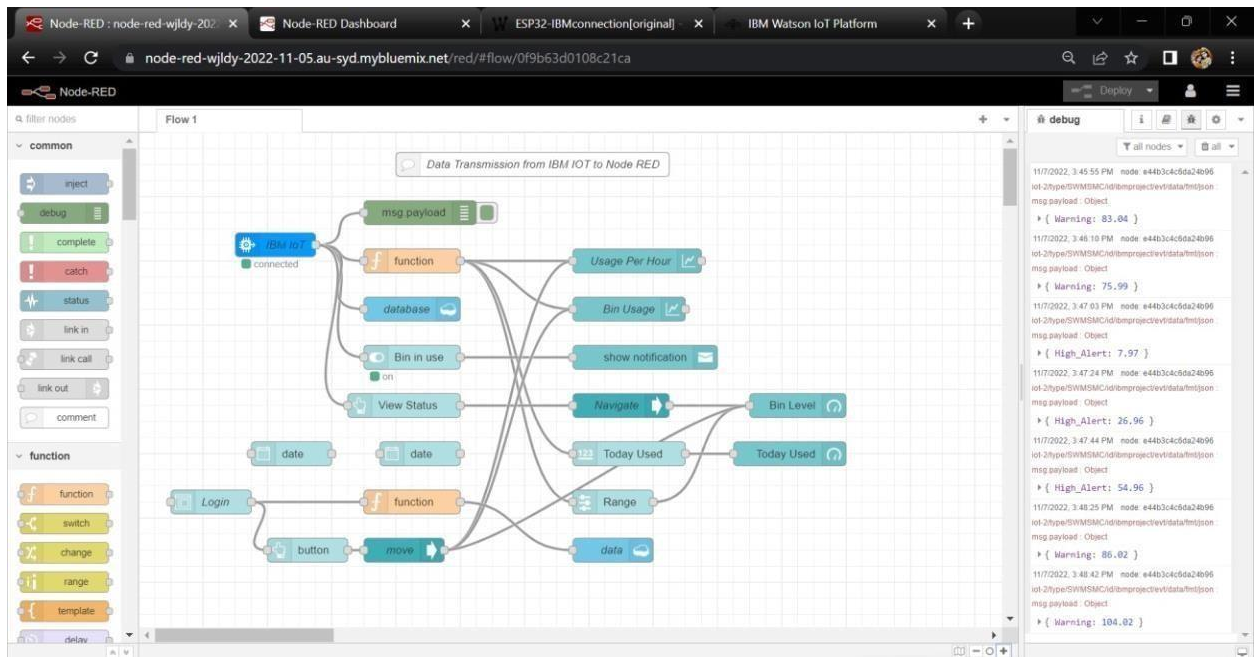


2. Node-RED Connection setup for data transmission from IBM Watson IOT platform to Node-RED dashboard.

The screenshot displays the IBM Watson IoT Platform dashboard. The top navigation bar includes tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. The main content area shows a list of devices. The selected device, ID 77777, is in a 'Connected' state and is associated with the 'sprint4' interface. Below the device list, a 'Recent Events' section provides a live stream of data. The events are listed in a table with columns for 'Event', 'Value', 'Format', and 'Last Received'. The data shows a series of 'data' events with JSON payloads containing sensor readings, all received in 'json' format. A status message at the bottom right indicates '0 Simulations running'. The bottom of the image shows a Windows taskbar with various application icons and a system clock displaying 19:53 on 18-11-2022.

Event	Value	Format	Last Received
data	{"type":"Buffer","data":[123,51,53,51,46,57,52,...]}	json	a few seconds ago
data	{"type":"Buffer","data":[123,51,53,51,46,57,54,...]}	json	a few seconds ago
data	{"type":"Buffer","data":[123,51,53,51,46,57,54,...]}	json	a few seconds ago
data	{"type":"Buffer","data":[123,51,53,51,46,57,54,...]}	json	a few seconds ago
data	{"type":"Buffer","data":[123,51,53,51,46,57,55,...]}	json	a few seconds ago

4.Data transfer from IBM Watson IOT platform and wokwi 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 🔔

Your Databases

Name	Size	# of Docs	Partitioned	Actions
login_credentials	13.7 KB	111	No	
noderedwjlidy20221105	37.4 KB	4	No	
sample	59.4 KB	351	No	
sensor_data	15.7 KB	90	No	

Showing 1–4 of 4 databases. Databases per page: 20 « 1 »

Log Out

ee6aeb4a-3006-499e-940e-af19edf953bf-bluemix.cloudant.com/dashboard.html#/database/sensor_data/_all_docs

sensor_data

Document ID ▼ Options { } JSON 🔔

All Documents + Table Metadata { } JSON Create Document

	id	key	value
<input type="checkbox"/>	0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1...	{ "rev": "1-cde2dd17c519394df..." }
<input type="checkbox"/>	0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1...	{ "rev": "1-d26c5b40891e13c6c..." }
<input type="checkbox"/>	0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1...	{ "rev": "1-cde2dd17c519394df..." }
<input type="checkbox"/>	0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1...	{ "rev": "1-f96eb0460bc16cfab0..." }
<input type="checkbox"/>	1a921f21cbe229b86f599acb45...	1a921f21cbe229b86f599acb45...	{ "rev": "1-7226f08794cd47b7c..." }
<input type="checkbox"/>	1a921f21cbe229b86f599acb45...	1a921f21cbe229b86f599acb45...	{ "rev": "1-1bbdd9a985bd56cf9..." }
<input type="checkbox"/>	20a854e5445fa818e6c1de049...	20a854e5445fa818e6c1de049...	{ "rev": "1-7226f08794cd47b7c..." }
<input type="checkbox"/>	20a854e5445fa818e6c1de049...	20a854e5445fa818e6c1de049...	{ "rev": "1-3ad288ecad57f039e..." }
<input type="checkbox"/>	20a854e5445fa818e6c1de049...	20a854e5445fa818e6c1de049...	{ "rev": "1-1bbdd9a985bd56cf9..." }
<input type="checkbox"/>	298ed6fbd9b3b815f5ac7c061e...	298ed6fbd9b3b815f5ac7c061e...	{ "rev": "1-de72a0f6e5307a1b9..." }

Showing document 1 - 20. Documents per page: 20 « »

Log Out

6. Data is stored in JSON format

ee6aeb4a-3006-499e-940e-af19edf953bf-bluemix.cloudant.com/dashboard.html#database/sensor_data/0198213c192cb2c244cc2433f1802b91

sensor_data > 0198213c192cb2c244cc2433f1802b91

{ } JSON

Save Changes Cancel Upload Attachment Clone Document Delete

```
1 {
2   "_id": "0198213c192cb2c244cc2433f1802b91",
3   "_rev": "1-cde2dd17c519394dfb774730c495f8b",
4   "topic": "iot-2/type/SWMSMC/id/ibmproject/evt/data/fmt/json",
5   "payload": {
6     "Warning!!": "244.971left"
7   },
8   "deviceId": "ibmproject",
9   "deviceType": "SWMSMC",
10  "eventType": "data",
11  "format": "json"
12 }
```

Log Out

7. Web UI

node-red-kjery-2022-11-16.eu-gb.mybluemix.net/ui/#/2?socketid=s6fVy94Kt372gLdRAABc

Home

Default

BUTTON

hello

numeric 62

bin in use

VIEW STATUS

bin useage

usage per hour

Default

trash weight

62

MovaviVideoConv....exe SPRINT 3 - PNT20....pdf SPRINT 1 - PNT202....pdf Delivery Of Sprint-1.pdf Assignment 4 (3).pdf Show all

Type here to search

node-red-kjery-2022-11-16.eu-gb.mybluemix.net/ui/#/2?socketid=s6fVy94Kt372gLdRAABc

Home

usage per hour

today used 7

range

bin level

38

today used

7

MovaviVideoConv....exe SPRINT 3 - PNT20....pdf SPRINT 1 - PNT202....pdf Delivery Of Sprint-1.pdf Assignment 4 (3).pdf Show all

Type here to search

19:56 18-11-2022