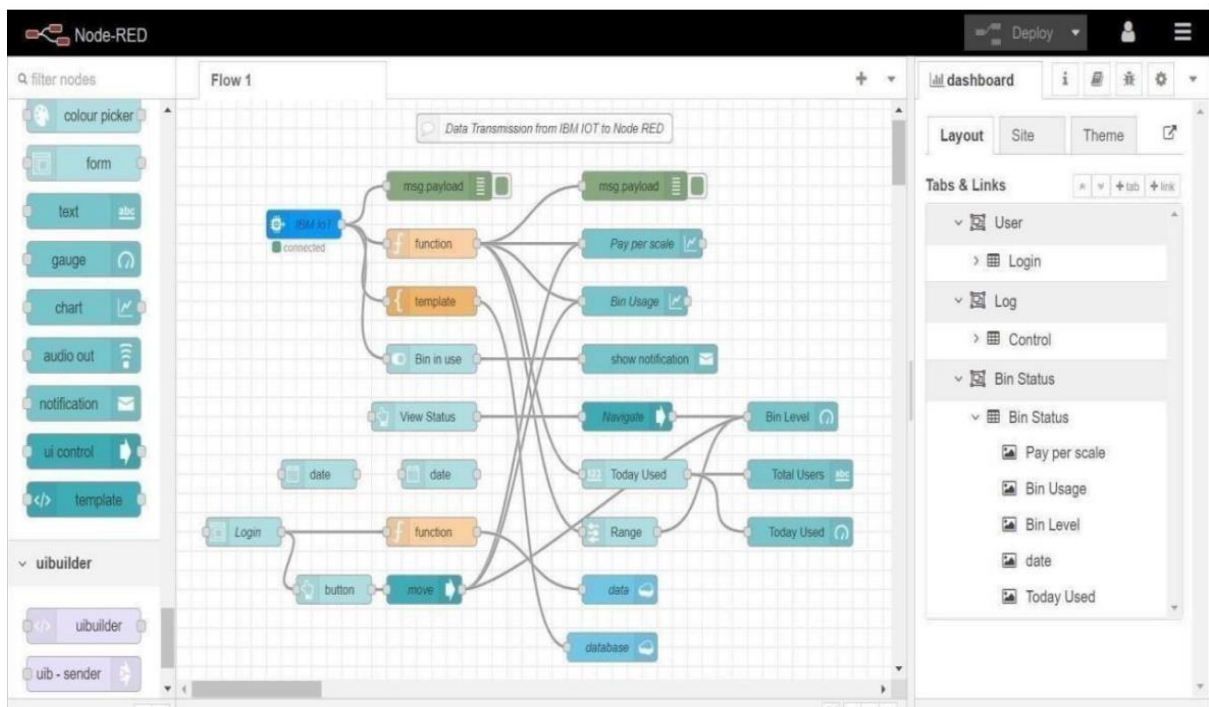


## Delivery of Sprint – 4

Date	November 19 2022
Team ID	PNT2022TMID15274
Project Name	Smart Waste Management for Metropolitan Cities

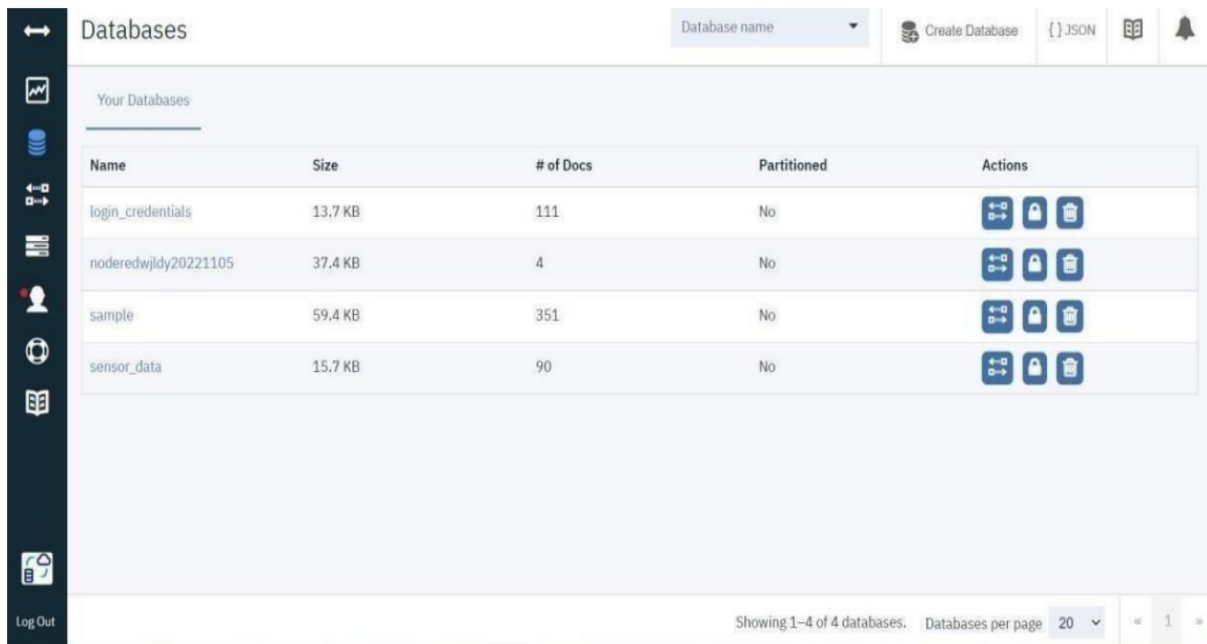
### 1. Node-RED Connection setup for data transmission from IBM Watson IOT platform to Node-RED dashboard.





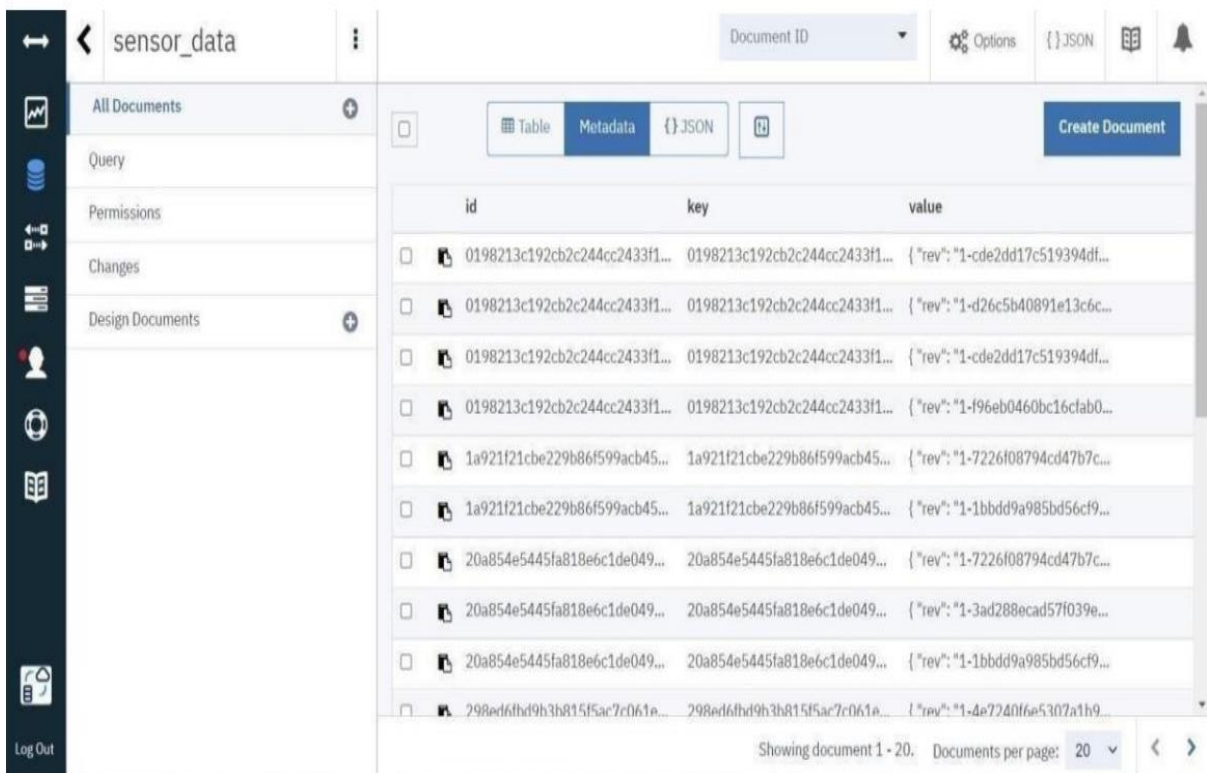


## 5. Storing database in IBM cloudant DB.



The screenshot shows the IBM Cloudant Databases interface. At the top, there's a header with a 'Database name' dropdown, a 'Create Database' button, and icons for JSON, a book, and a bell. Below the header, the section is titled 'Your Databases'. A table lists the databases with columns: Name, Size, # of Docs, Partitioned, and Actions. The databases listed are 'login\_credentials', 'noderedwilydy20221105', 'sample', and 'sensor\_data'. Each database has three action icons: a document icon, a lock icon, and a trash icon. At the bottom right, it says 'Showing 1-4 of 4 databases. Databases per page 20'.

Name	Size	# of Docs	Partitioned	Actions
login_credentials	13.7 KB	111	No	[Icons]
noderedwilydy20221105	37.4 KB	4	No	[Icons]
sample	59.4 KB	351	No	[Icons]
sensor_data	15.7 KB	90	No	[Icons]



The screenshot shows the IBM Cloudant 'sensor\_data' database document view. The left sidebar has a 'sensor\_data' breadcrumb, a 'Query' button, and a list of menu items: All Documents, Query, Permissions, Changes, and Design Documents. The main area has a 'Document ID' dropdown, 'Options' button, and icons for JSON, a book, and a bell. Below this, there are tabs for 'Table', 'Metadata', and 'JSON', with a 'Create Document' button. The 'Table' tab is active, showing a table with columns: id, key, and value. The table contains 10 rows of document data. At the bottom right, it says 'Showing document 1 - 20. Documents per page: 20'.

id	key	value
0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1...	{ "rev": "1-cde2dd17c519394df..." }
0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1...	{ "rev": "1-d26c5b40891e13c6c..." }
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..." }
298ed6f6d9b3b815f5ac7c061a...	298ed6f6d9b3b815f5ac7c061a...	{ "rev": "1-4e7240f6e5307a1h9..." }

## 6.Data is stored in JSON format.

The screenshot displays a web-based JSON editor interface. At the top, the document is titled "sensor\_data" followed by a long alphanumeric string "0198213c192cb2c244cc2433f1802b91". Below the title bar, there are buttons for "Save Changes", "Cancel", "Upload Attachment", "Clone Document", and "Delete". The main area shows a JSON document with the following structure:

```
1 {
2   "_id": "0198213c192cb2c244cc2433f1802b91",
3   "_rev": "1-cde2dd17c519394dfcb774730c495f8b",
4   "topic": "iot-2/type/SWMSMC/id/ibmproject/evt/data/fmt/json",
5   "payload": {
6     "Warning!!": "244.97left"
7   },
8   "deviceId": "ibmproject",
9   "deviceType": "SWMSMC",
10  "eventType": "data",
11  "format": "json"
12 }
```

On the left side, there is a vertical sidebar with various icons for navigation and actions. At the bottom of the sidebar, there is a "Log Out" button.

## 7. Web UI