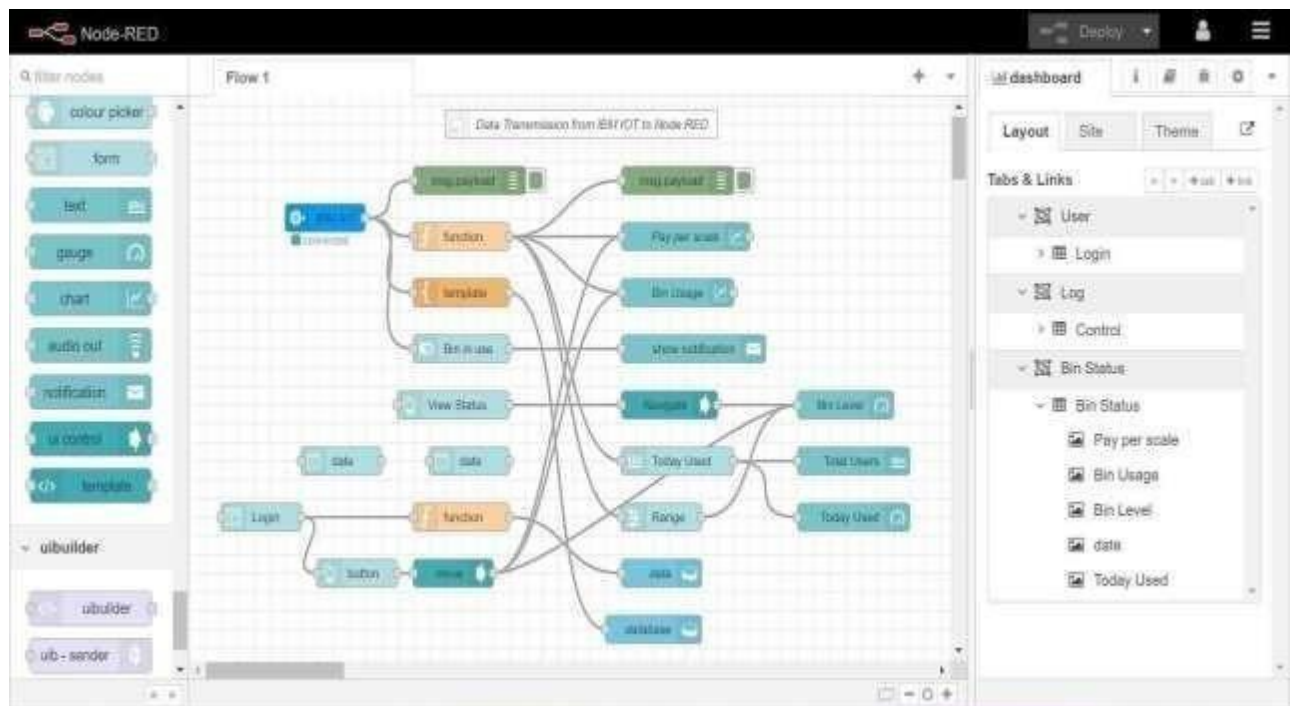


## Web UI Design and Deploy

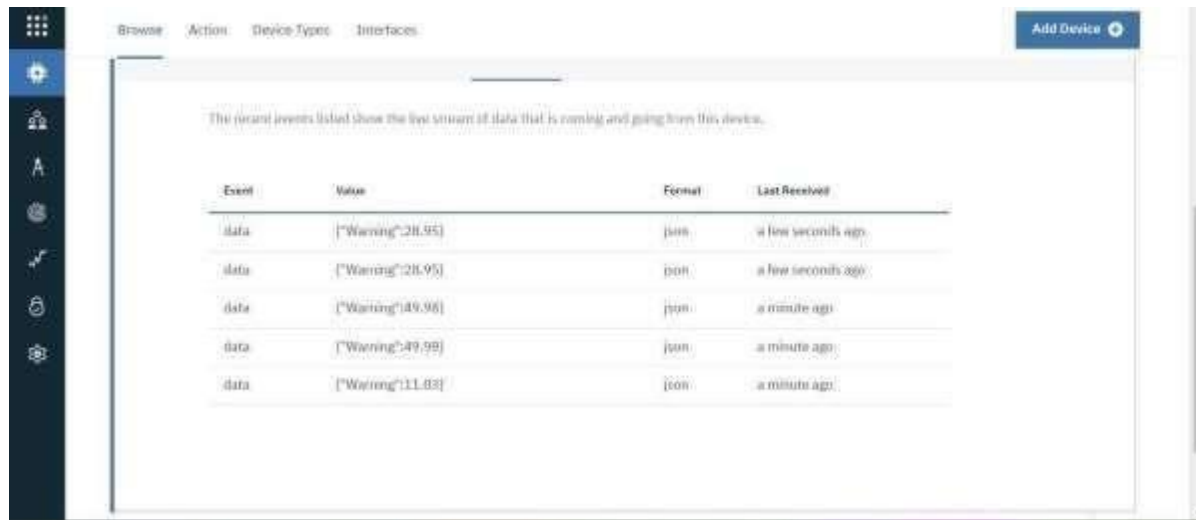
Team ID	PNT2022TMID13889
Project Name	Smart Waste Management for Metropolitan Cities

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





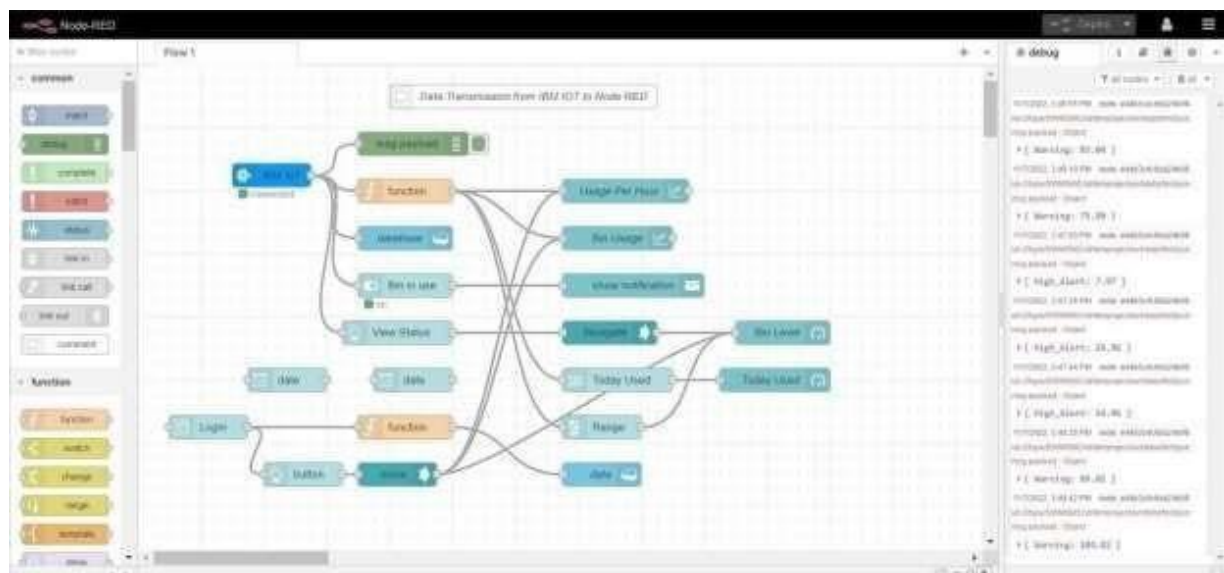
### 3. Data transfer to Watson IOT platform.




The screenshot shows the IBM Watson IoT Platform interface. At the top, there are tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. A blue 'Add Device' button is in the top right. Below the tabs, a message states: 'The recent events listed show the live stream of data that is coming and going from this device.' Below this message is a table with the following data:

Event	Value	Format	Last Received
data	["Warning":20.95]	json	a few seconds ago
data	["Warning":20.95]	json	a few seconds ago
data	["Warning":49.98]	json	a minute ago
data	["Warning":49.99]	json	a minute ago
data	["Warning":11.83]	json	a minute ago

### 4. Data transfer from IBM Watson IOT platform and wokwi to Node red.

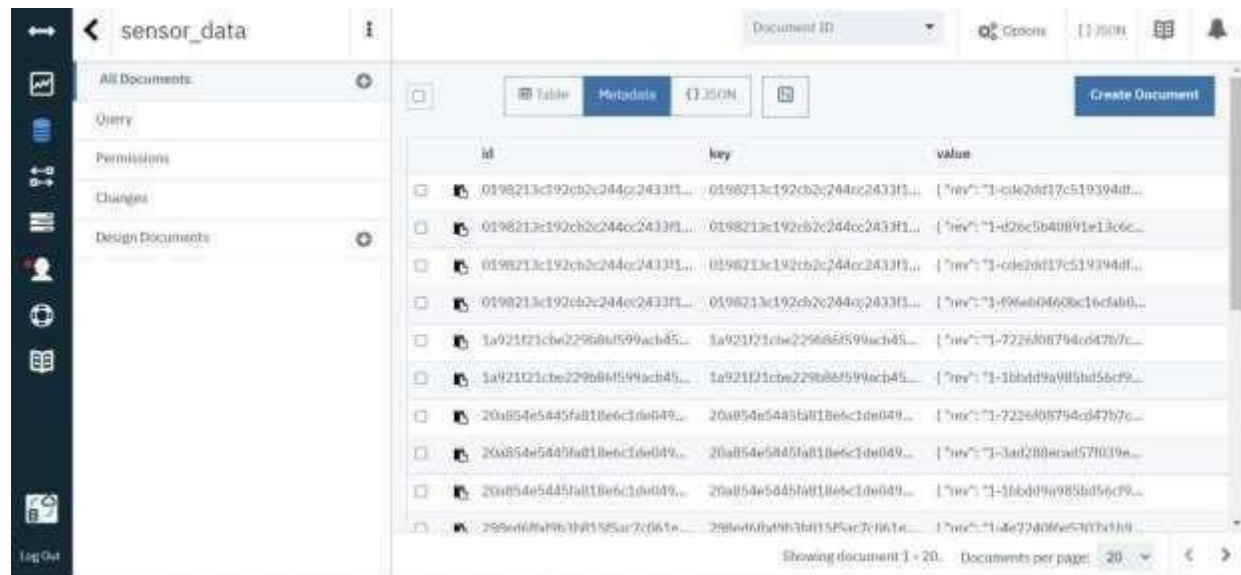


## 5 . Storing database in IBM cloudant DB.



The screenshot shows the IBM Cloudant 'Databases' page. At the top, there's a search bar for 'Database name' and a 'Create Database' button. Below this is a table titled 'Your Databases' with columns: Name, Size, # of Docs, Partitioned, and Actions. The table lists four databases: 'login\_credentials' (13.7 KB, 111 docs, not partitioned), 'nodemdfwily20221109' (37.4 KB, 4 docs, not partitioned), 'sample' (59.4 KB, 351 docs, not partitioned), and 'sensor\_data' (15.7 KB, 90 docs, not partitioned). Each database has three action icons: a plus sign, a lock, and a trash can. At the bottom, 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	[+][lock][trash]
nodemdfwily20221109	37.4 KB	4	No	[+][lock][trash]
sample	59.4 KB	351	No	[+][lock][trash]
sensor_data	15.7 KB	90	No	[+][lock][trash]



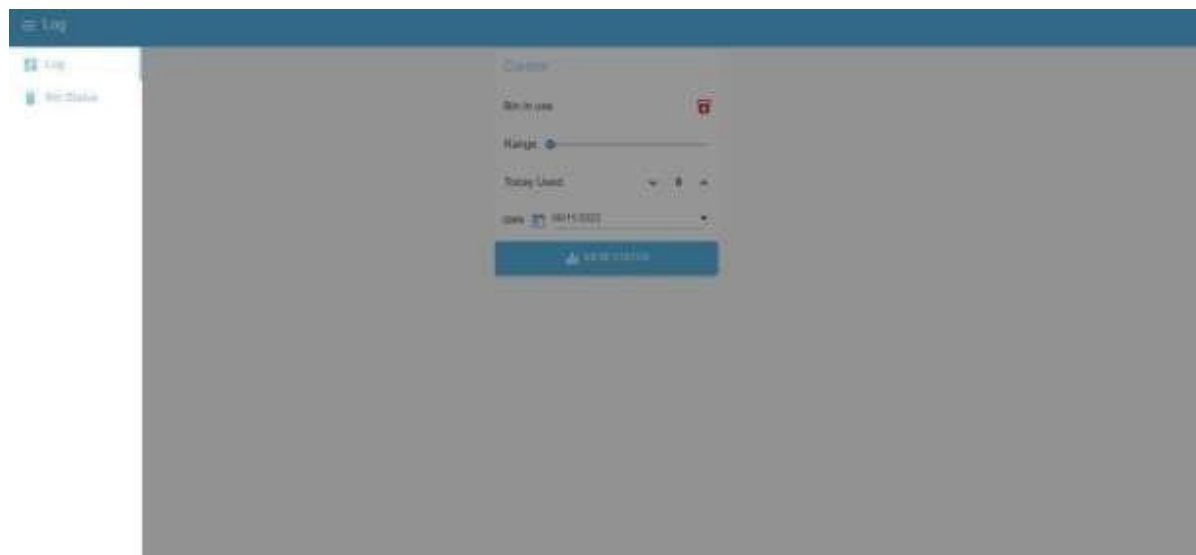
The screenshot shows the 'sensor\_data' database view in IBM Cloudant. The left sidebar has tabs for 'All Documents', 'Query', 'Permissions', 'Changes', and 'Design Documents'. The main area has tabs for 'Table', 'Metadata', and 'JSON'. The 'JSON' tab is selected, showing a list of documents. Each document has a checkbox, a key, and a value. The values are JSON objects containing 'rev' and 'data' fields. At the bottom, it says 'Showing document 1 - 20. Documents per page: 20'.

id	key	value
<input type="checkbox"/> [icon]	0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1... {"rev": "1-cde20d17c519394df...", "data": {}}
<input type="checkbox"/> [icon]	0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1... {"rev": "1-d26c5b40891e13c6c...", "data": {}}
<input type="checkbox"/> [icon]	0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1... {"rev": "1-cde20d17c519394df...", "data": {}}
<input type="checkbox"/> [icon]	0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1... {"rev": "1-996b04608c16fab0...", "data": {}}
<input type="checkbox"/> [icon]	1a921f21cbe22968d599acb45...	1a921f21cbe22968d599acb45... {"rev": "1-7226d08794cd47b7c...", "data": {}}
<input type="checkbox"/> [icon]	1a921f21cbe22968d599acb45...	1a921f21cbe22968d599acb45... {"rev": "1-1b5d9a985ba56c9...", "data": {}}
<input type="checkbox"/> [icon]	20a854e5445fab18e6c1de049...	20a854e5445fab18e6c1de049... {"rev": "1-7226d08794cd47b7c...", "data": {}}
<input type="checkbox"/> [icon]	20a854e5445fab18e6c1de049...	20a854e5445fab18e6c1de049... {"rev": "1-1ad200acaa57b039e...", "data": {}}
<input type="checkbox"/> [icon]	20a854e5445fab18e6c1de049...	20a854e5445fab18e6c1de049... {"rev": "1-1b5d9a985ba56c9...", "data": {}}
<input type="checkbox"/> [icon]	298e6d6b6b3b115f5ac7c061e...	298e6d6b6b3b115f5ac7c061e... {"rev": "1-1de72406e5107a319...", "data": {}}

## 6. Data is stored in JSON format



## 7. Web UI



Log

Control

Bin in use

Range

Today Used

date06/11/2022

VIEW STATUS

