SPRINT 2

TEAM ID: PNT2022TMID23156

REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM

AIM:

To create device in the IOT Watson Platform and Configure Node Red Services.

REQUIREMENT:

IBM cloud, IBM IOT WATSON PLATFORM,NODE RED SERVICES.

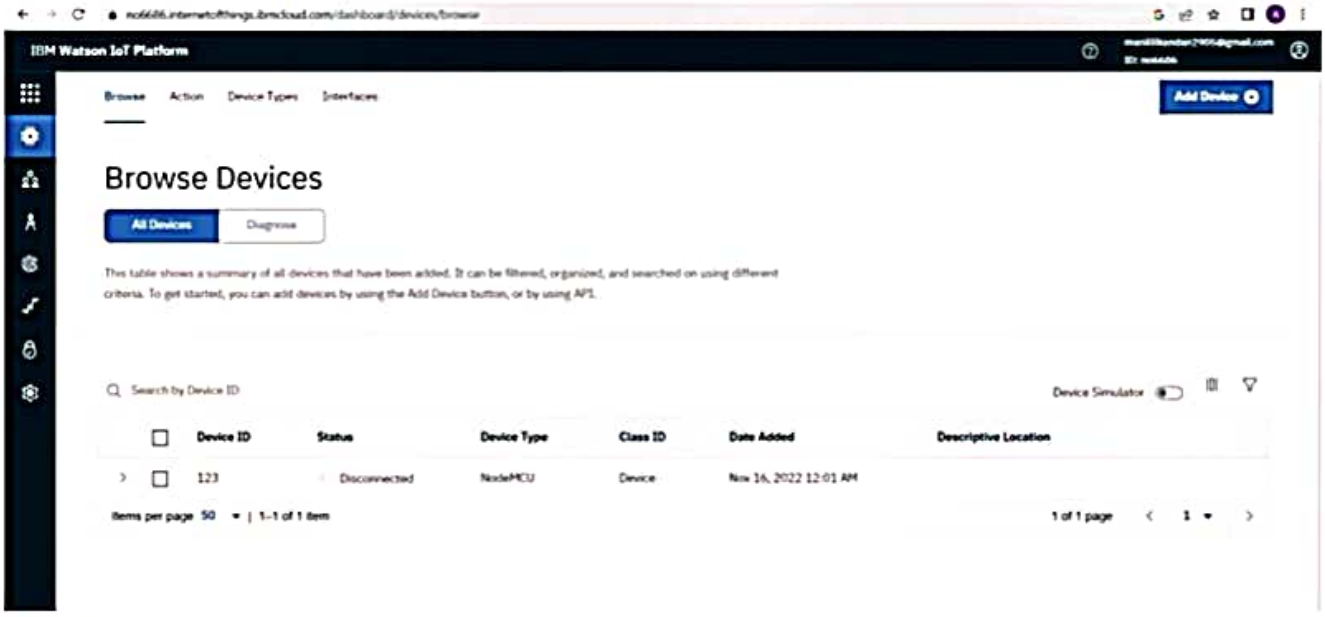
WORKFLOW:

STEP 1:

Log on to IBM cloud and create IBM Watson IOT Platform from IBM cloud Dashboard.

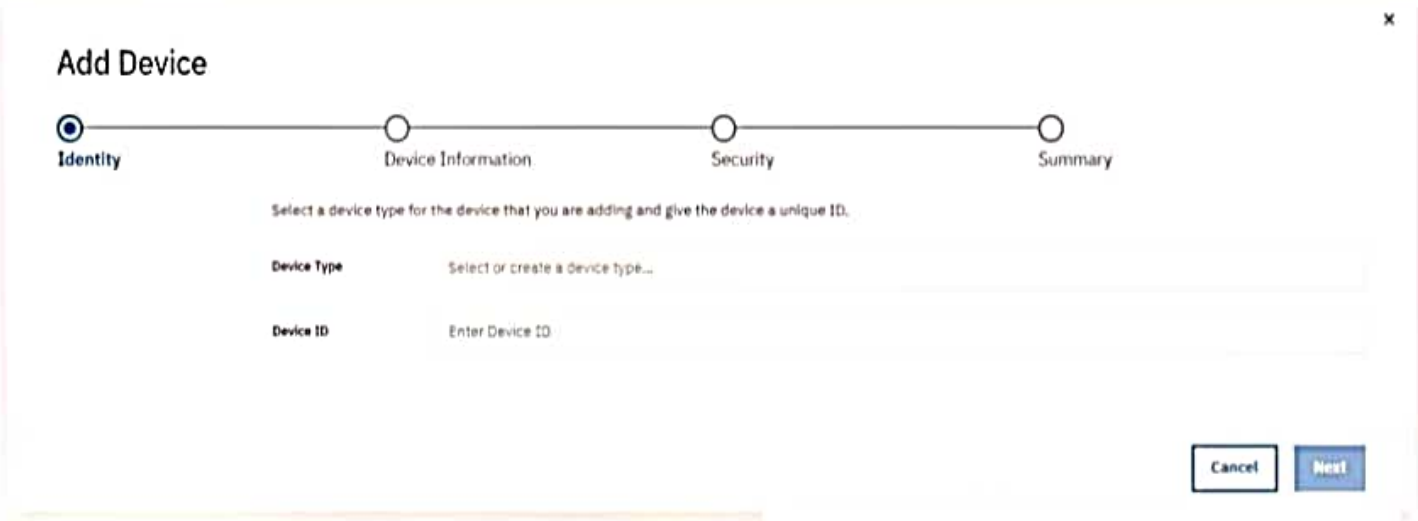
STEP 2:

After Creating IBM Watson IOT Platform,create an Organization (ex.84708c ID: 84708c Bluemix Free)



STEP 3:

Create an device IBM IOT PALTFORM.



TYPE THE REQUIRED FIELDS (TYPE: ESP32 , ID: 1234)
GIVE AUTH-TOKEN.

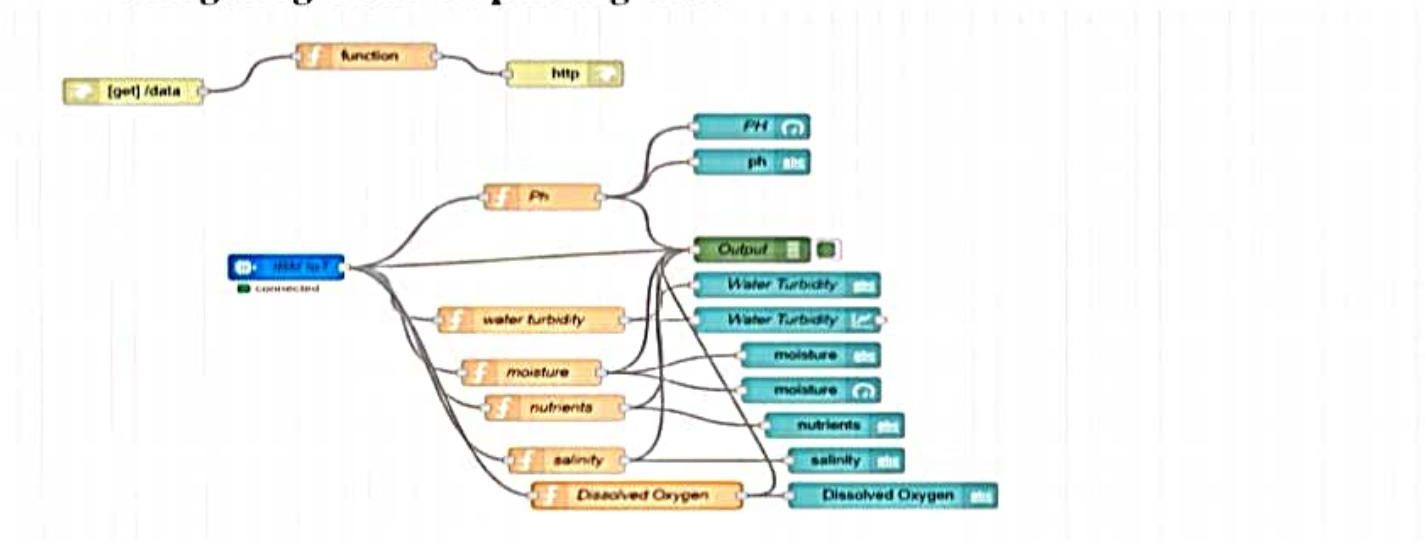
STEP 4:

NODE RED SERVICE

- INSTALL IBM IOT IN MANGE PALETTE.
- INSTALL NODE RED DASHBOARD.

STEP 5:

Configuring the corresponding nodes



STEP 6:

Deploy the Services and verify the output values.

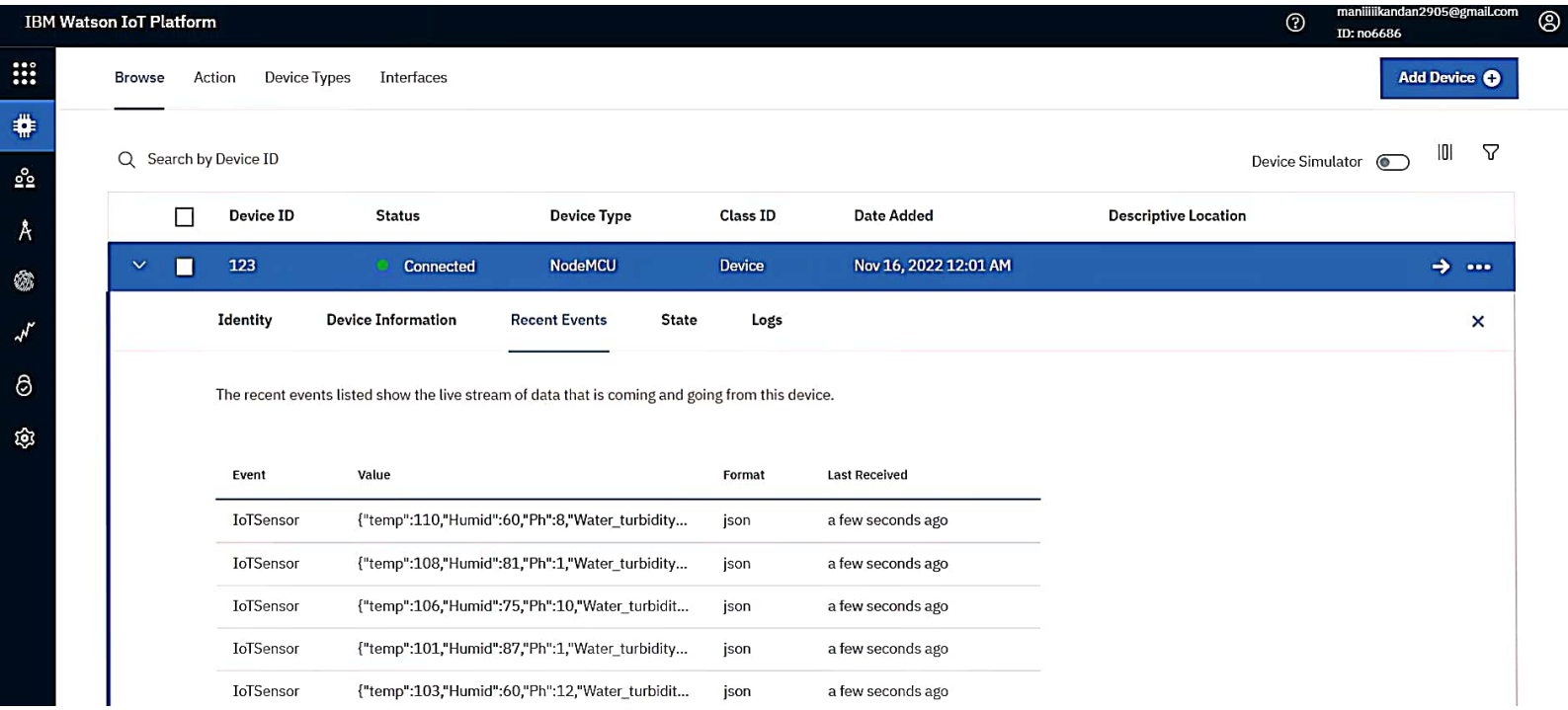
OUTPUT IN IBM WATSON IOT PLATFORM:

Event Payload

Event Name IoTSensor

Time Received Nov 18, 2022 9:48 PM


```
{
  "temp": 107,
  "Humid": 97,
  "Ph": 4,
  "Water_turbidity": 35
}
```


IBM Watson IoT Platform
maniiiikandan2905@gmail.com
ID: no6686
Browse
Action
Device Types
Interfaces
Add Device
Search by Device ID
Device Simulator
Device ID
Status
Device Type
Class ID
Date Added
Descriptive Location
123
Connected
NodeMCU
Device
Nov 16, 2022 12:01 AM
Identity
Device Information
Recent Events
State
Logs
The recent events listed show the live stream of data that is coming and going from this device.
Event
Value
Format
Last Received
IoTSensor
{"temp":110,"Humid":60,"Ph":8,"Water_turbidity...
json
a few seconds ago
IoTSensor
{"temp":108,"Humid":81,"Ph":1,"Water_turbidity...
json
a few seconds ago
IoTSensor
{"temp":106,"Humid":75,"Ph":10,"Water_turbidit...
json
a few seconds ago
IoTSensor
{"temp":101,"Humid":87,"Ph":1,"Water_turbidity...
json
a few seconds ago
IoTSensor
{"temp":103,"Humid":60,"Ph":12,"Water_turbidit...
json
a few seconds ago