SPRINT 2

TEAM ID: PNT2022TMID51580

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.

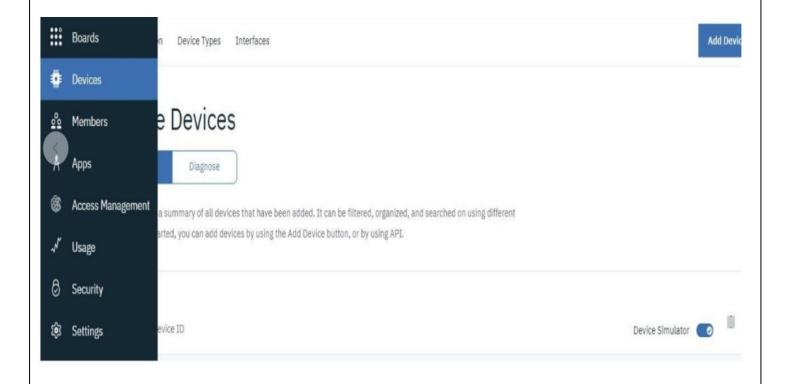
WORKFLOW:

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.

Identity		evice Information	Security	Summary	
	Select a device type for the device that you are adding and give the device a unique ID.				
	Device Type	Select or create a device ty	/pe		
	Device ID	Enter Device ID			

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

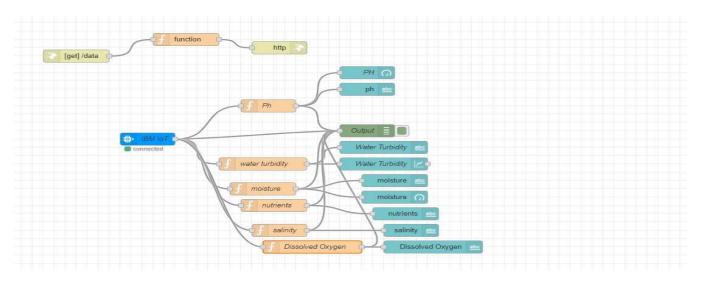
STEP 4:

NODE RED SERVICE

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

STEP 5:

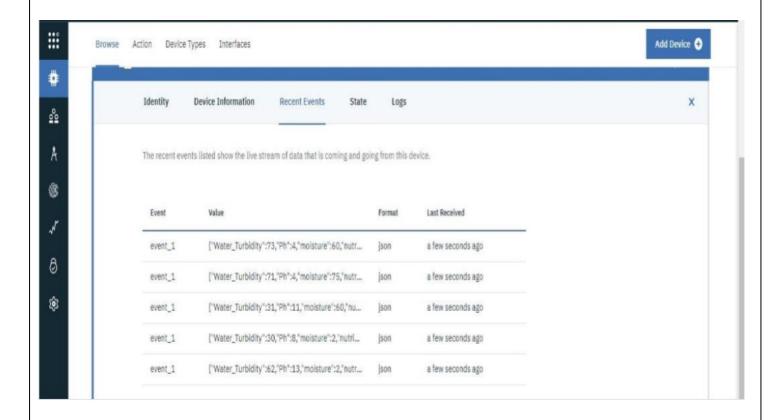
Configuring the corresponding nodes



STEP 6:

Deploy the Services and verify the output values.

OUTPUT IN IBM WATSON IOT PLATFORM:



Event Payload

```
Event Name
                       event_1
Time Received
                       Nov 15, 2022 10:05 PM
   1 + {
         "Water_Turbidity": 97,
   2
         "Ph": 6,
   3
   4
         "moisture": 10,
         "nutrients": 85,
   5
         "salinity": 47,
   6
   7
         "dissolved_02": 53
   8 }
```