

PROJECT DEVELOPMENT PHASE

PROJECT DEVELOPMENT (SPRINT-2)

Team ID : PNT2022TMID07790

Project Name Project : Real Time River Water 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.

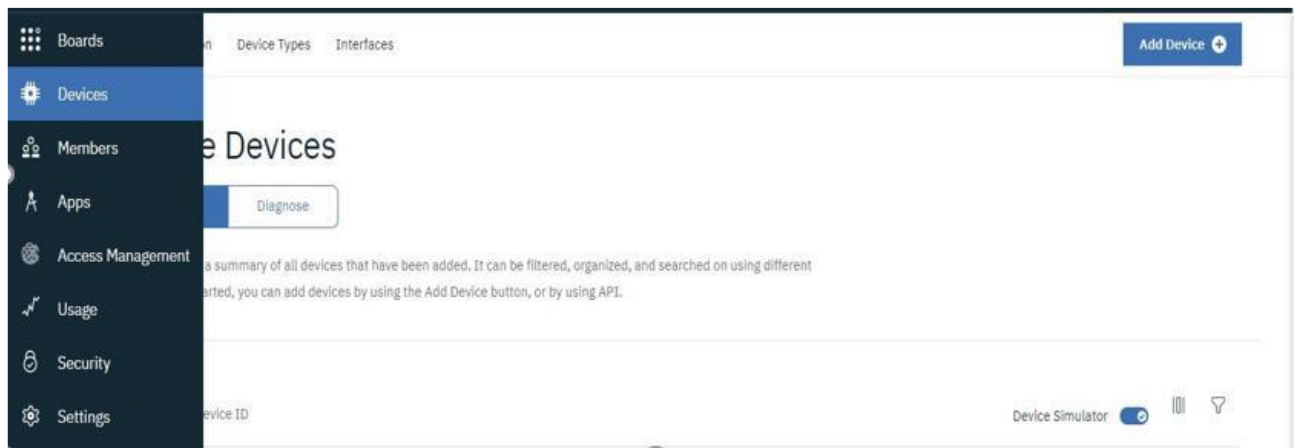
WORKFLOW:

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.

A screenshot of the 'Add Device' wizard in the IBM Watson IoT Platform. The wizard has four steps: Identity (selected), Device Information, Security, and Summary. Below the steps, there's a prompt: 'Select a device type for the device that you are adding and give the device a unique ID.' There are two input fields: 'Device Type' with a dropdown menu showing 'Select or create a device type...' and 'Device ID' with a text input field showing 'Enter Device ID'. At the bottom right, there are 'Cancel' and 'Next' buttons.

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

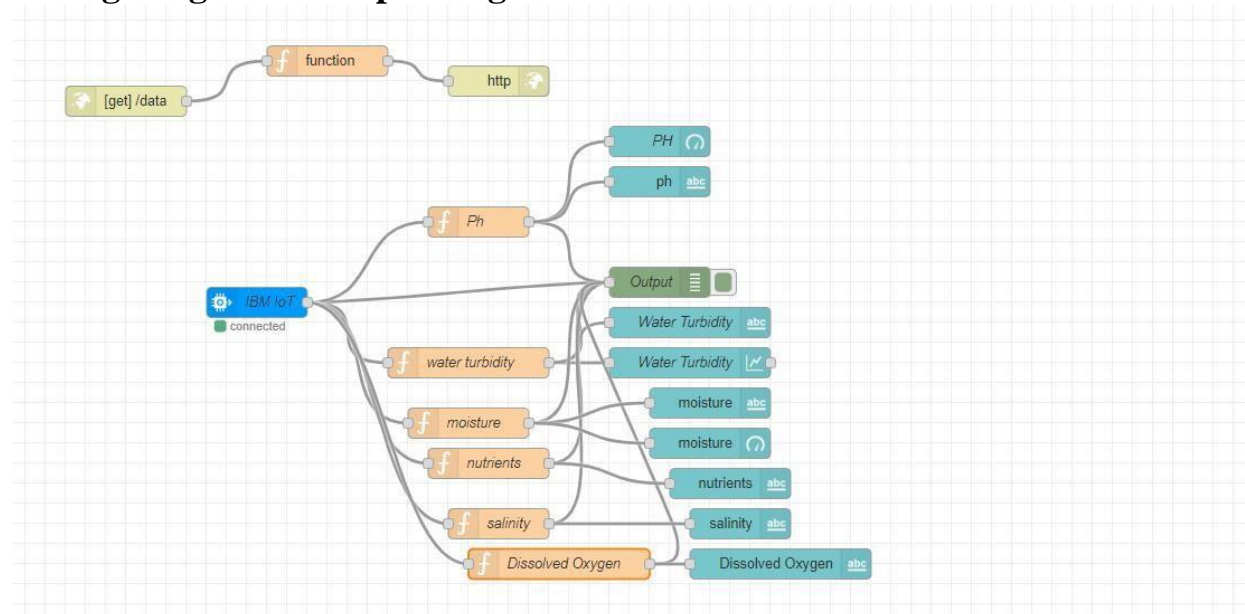
STEP 4:

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:

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	
event_1	{"Water_Turbidity":73,"Ph":4,"moisture":60,"nutr...	json	a few seconds ago	
event_1	{"Water_Turbidity":71,"Ph":4,"moisture":75,"nutr...	json	a few seconds ago	
event_1	{"Water_Turbidity":31,"Ph":11,"moisture":60,"nu...	json	a few seconds ago	
event_1	{"Water_Turbidity":30,"Ph":8,"moisture":2,"nutri...	json	a few seconds ago	
event_1	{"Water_Turbidity":62,"Ph":13,"moisture":2,"nutr...	json	a few seconds ago	

Event Payload

Event Name event_1

Time Received Nov 15, 2022 10:05 PM

```
1  {  
2    "Water_Turbidity": 97,  
3    "Ph": 6,  
4    "moisture": 10,  
5    "nutrients": 85,  
6    "salinity": 47,  
7    "dissolved_O2": 53  
8  }
```