

## Project Development Phase

### Sprint-3

|              |   |
|--------------|---|
| Date         | 17 November 2022  |
| Team ID      | PNT2022TMID08766  |
| Project Name | Project - Real time River water quality monitoring and control system |

### Created Node-Red in IBM Cloud:

The screenshot displays the IBM Cloud console interface for a resource named "Node RED MMVCQ 2022-11-13". The top navigation bar includes "IBM Cloud", "Catalog", "Manage", and various utility icons. The breadcrumb trail shows "Resource list / App details /". The resource name is followed by "Add tags" and an "Actions..." dropdown menu.

**Details**

|                   |   |
|-------------------|---|
| App URL           | <a href="http://169.51.203.233:30428">http://169.51.203.233:30428</a>   |
| Source            | <a href="https://us-south.git.cloud.ibm.com/19bec026/NodeREDMMVCQ2022-11-13">https://us-south.git.cloud.ibm.com/19bec026/NodeREDMMVCQ2022-11-13</a> |
| Resource group    | Default   |
| Deployment target | Kube/Helm   |
| Created           | 11/13/2022  |

**Services**

Cloudant

[Open dashboard](#) [Documentation](#) [API reference](#)

Credentials ▾

[Connect existing services](#) + [Create service](#) +

**Deployment Automation**

|                   |                        |
|-------------------|------------------------|
| Name              | NodeREDMMVCQ2022-11-13 |
| Location          | Dallas                 |
| Tool integrations |                        |

**Delivery Pipelines**

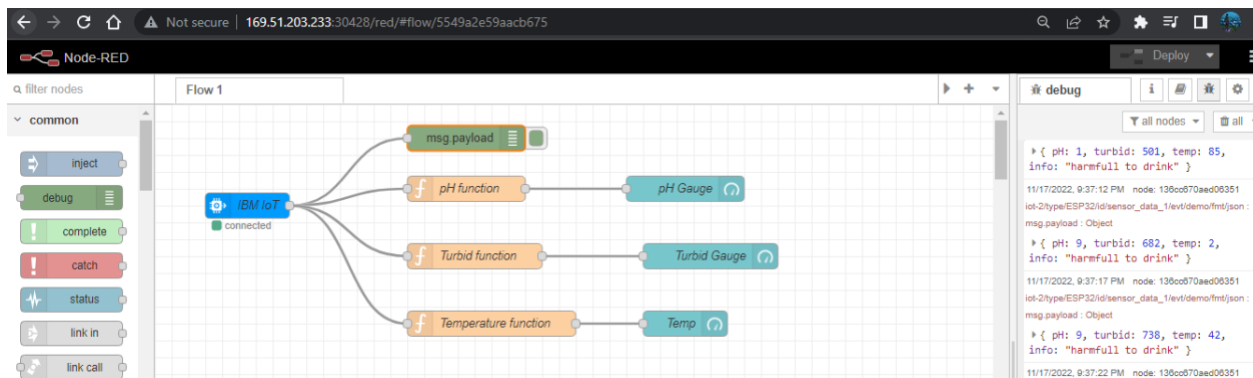
|        |             |
|--------|-------------|
| Name   | ci-pipeline |
| Status | Success     |

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|        |                    |
|--------|--------------------|
| Name   | pr-pipeline        |
| Status | No stages detected |

SK A QUESTION

IOT Watson is connected to Node-Red and flow is created:



**Edit function node**

Delete Cancel Done

**Properties**

Name: Turbid function

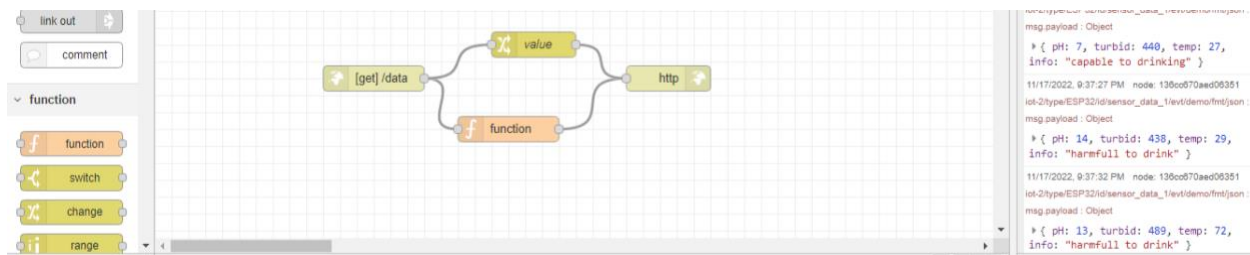
Setup On Start On Message On Stop

```
1 var m={};
2 m.payload=msg.payload.turbid;
3 global.set("turbid",m.payload);
4 return m;
```

**debug**

```
> { pH: 1, turbid: 501, temp: 85,
info: "harmfull to drink" }
11/17/2022, 9:37:12 PM node: 136cc870aed06351
iot-2/type/ESP32/id/sensor_data_1/evt/demo/fmt/json :
msg.payload : Object
> { pH: 9, turbid: 682, temp: 2,
info: "harmfull to drink" }
11/17/2022, 9:37:17 PM node: 136cc870aed06351
iot-2/type/ESP32/id/sensor_data_1/evt/demo/fmt/json :
msg.payload : Object
> { pH: 9, turbid: 738, temp: 42,
info: "harmfull to drink" }
11/17/2022, 9:37:22 PM node: 136cc870aed06351
iot-2/type/ESP32/id/sensor_data_1/evt/demo/fmt/json :
msg.payload : Object
> { pH: 7, turbid: 440, temp: 27,
info: "capable to drinking" }
11/17/2022, 9:37:27 PM node: 136cc870aed06351
iot-2/type/ESP32/id/sensor_data_1/evt/demo/fmt/json :
msg.payload : Object
> { pH: 14, turbid: 438, temp: 29,
info: "harmfull to drink" }
11/17/2022, 9:37:32 PM node: 136cc870aed06351
iot-2/type/ESP32/id/sensor_data_1/evt/demo/fmt/json :
msg.payload : Object
> { pH: 13, turbid: 489, temp: 72,
info: "harmfull to drink" }
```

## Http post, request and respond:



### Edit http in node

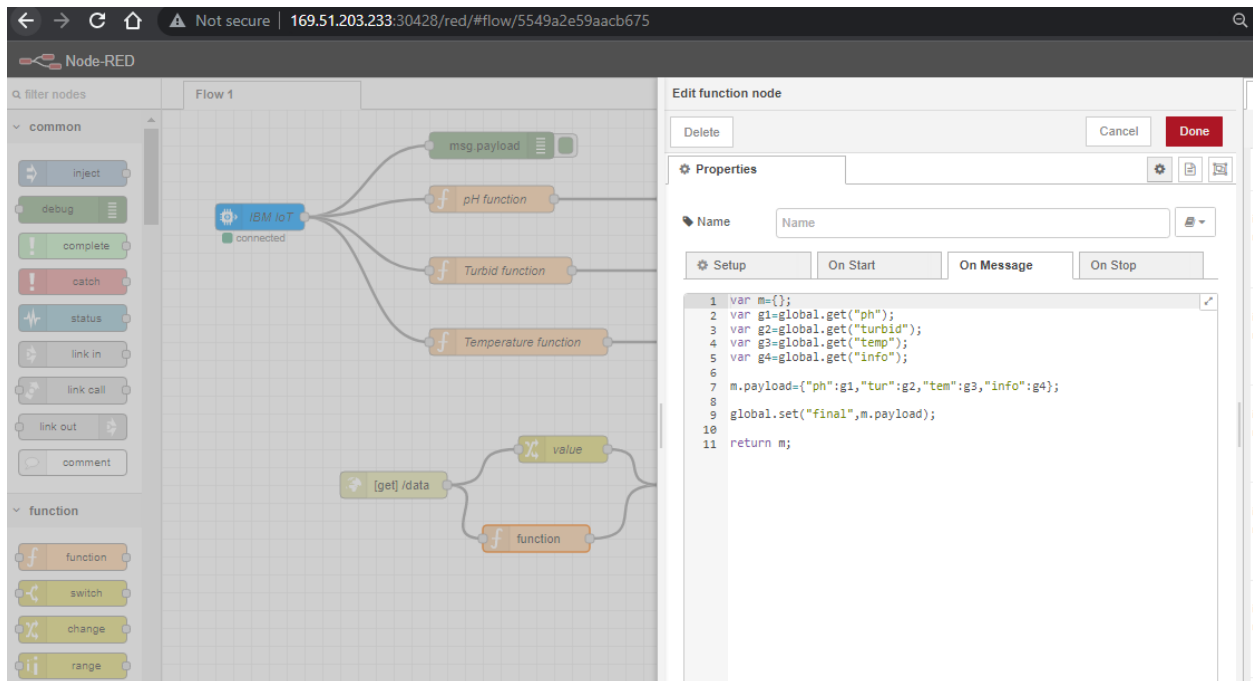
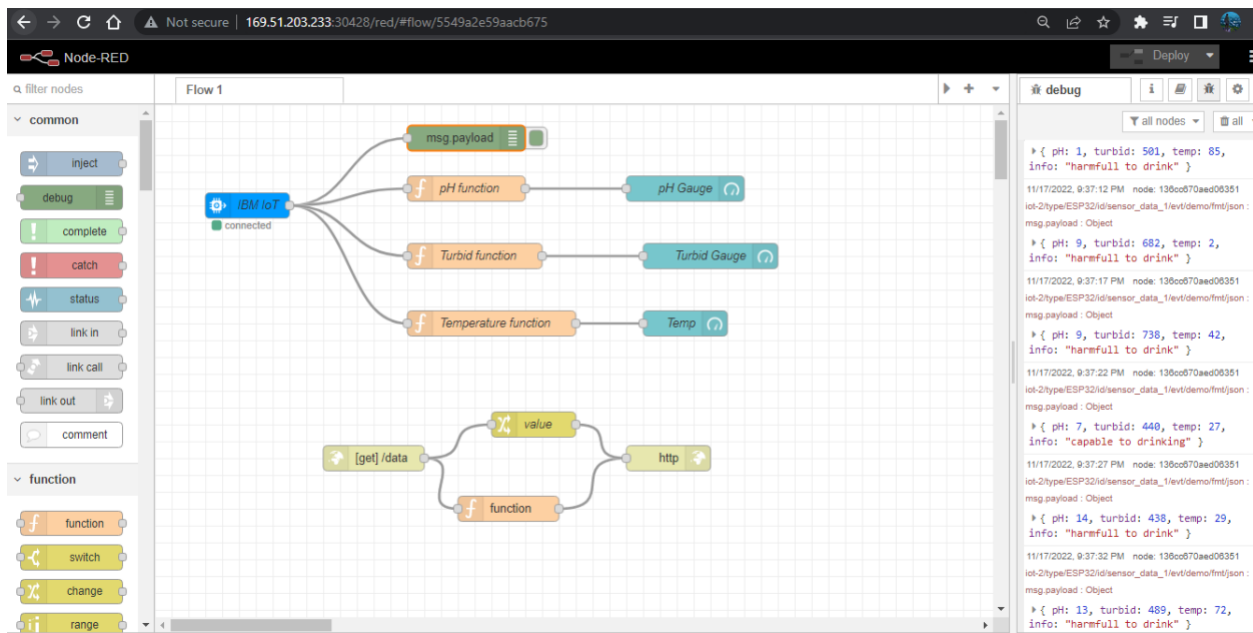
**Properties**

**Method** GET

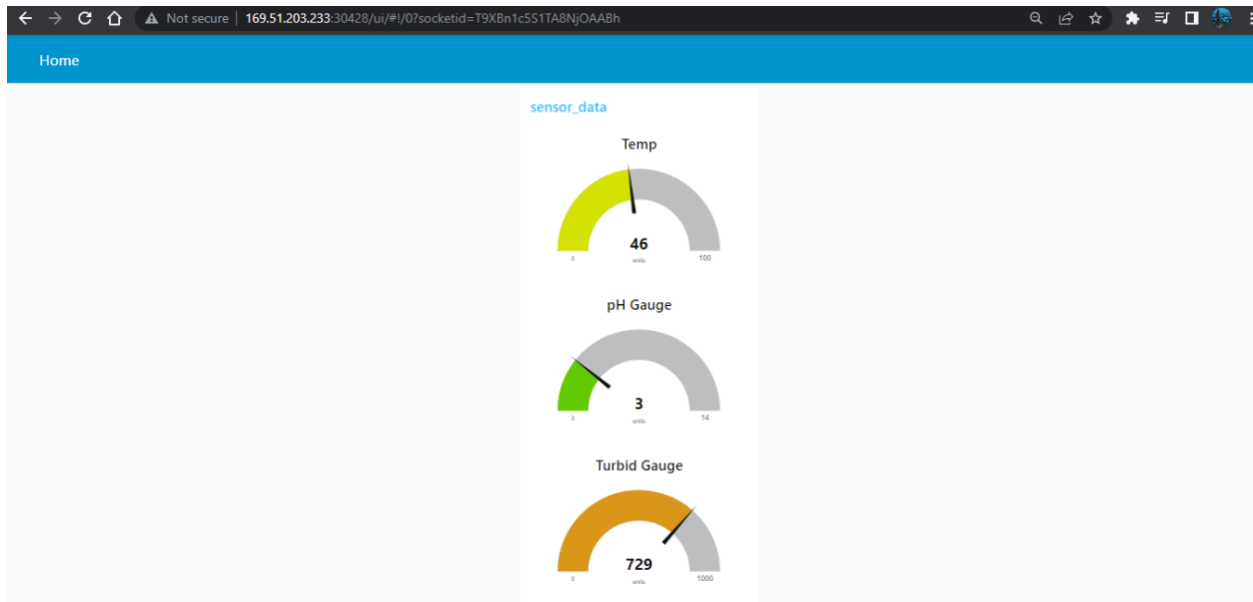
**URL** /data

**Name** Name

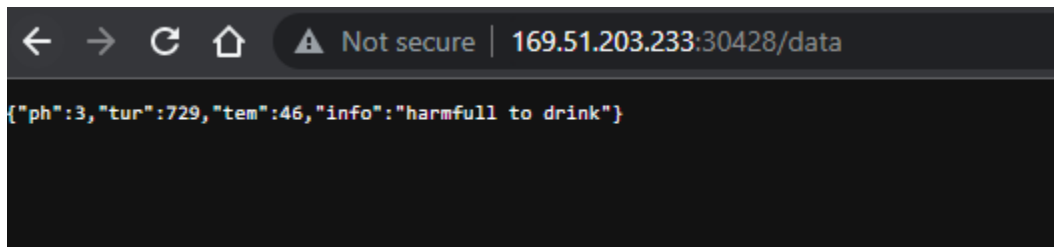
## Final flow in Node-RED:



## Web UI Created by Node-Red:



Link is created to link Node-red and Mobile app:



## Links:

Web UI link: <http://169.51.203.233:30428/ui>

Json file link: <http://169.51.203.233:30428/data>