

Project Development Phase

Sprint-3

Date	17 November 2022
Team ID	PNT2022TMID19640
Project Name	Project - Real time River water quality monitoring and control system

Created Node-Red in IBM Cloud:

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

Name

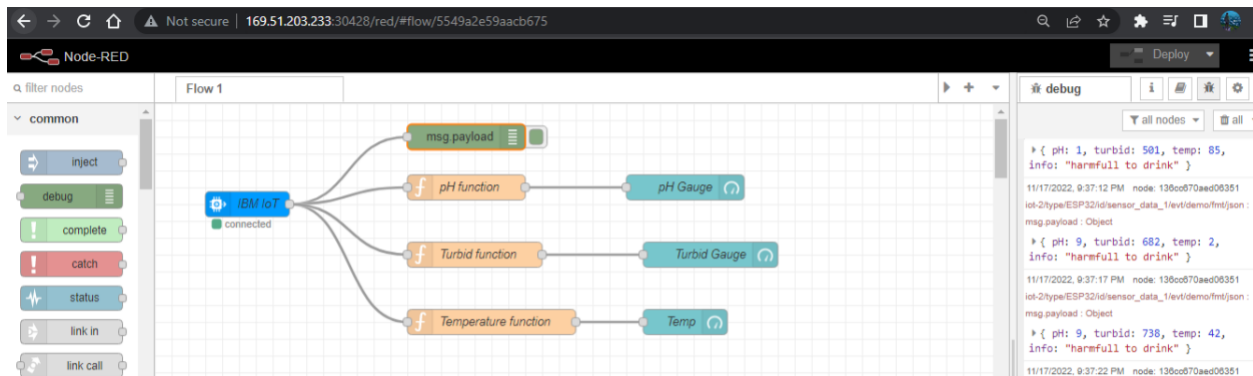
pr-pipeline

Status

 No stages detected

SK A QUESTION

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



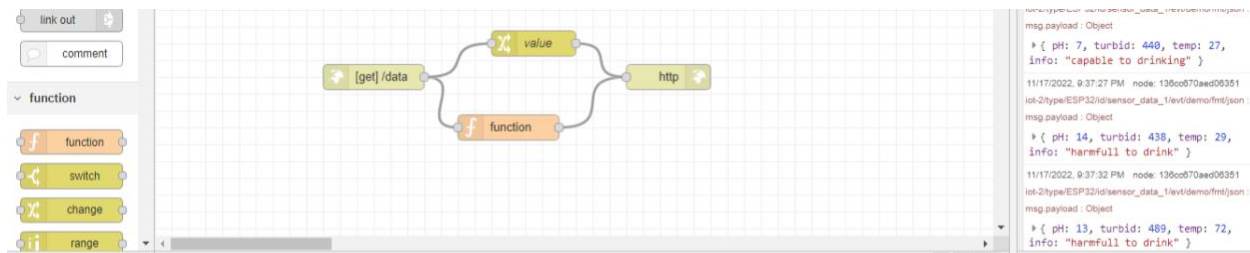
The 'Edit function node' dialog is open for the 'Turbid function' node. The 'Properties' section shows the node name and tabs for 'Setup', 'On Start', 'On Message', and 'On Stop'. The 'On Message' tab is selected, showing the following JavaScript code:

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

The right-hand 'debug' console shows a log of incoming messages from the IoT device, displaying JSON payloads with pH, turbid, and temp values.

```
11/17/2022, 9:37:12 PM node: 136cc070aed06351  
iot-2/type/ESP32/id/sensor_data_1/evt/demo/fmt/json :  
msg.payload : Object  
> { pH: 1, turbid: 501, temp: 85,  
info: "harmfull to drink" }  
  
11/17/2022, 9:37:17 PM node: 136cc070aed06351  
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, 9:37:22 PM node: 136cc070aed06351  
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, 9:37:27 PM node: 136cc070aed06351  
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: 136cc070aed06351  
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

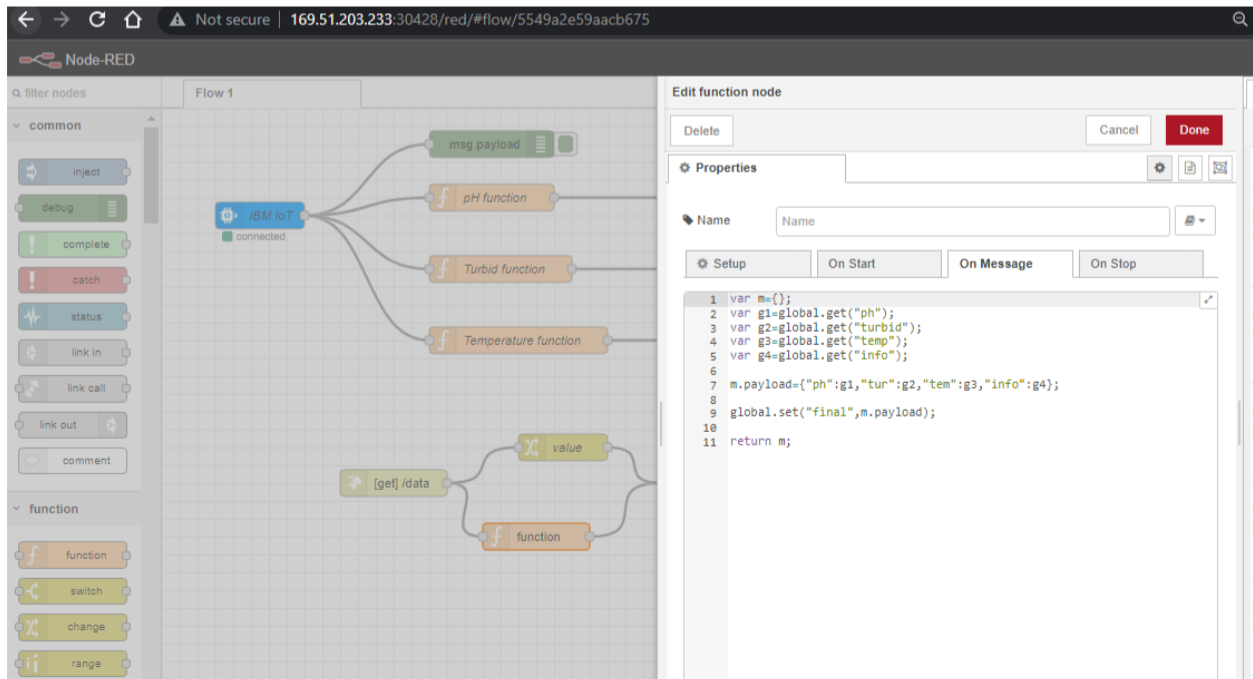
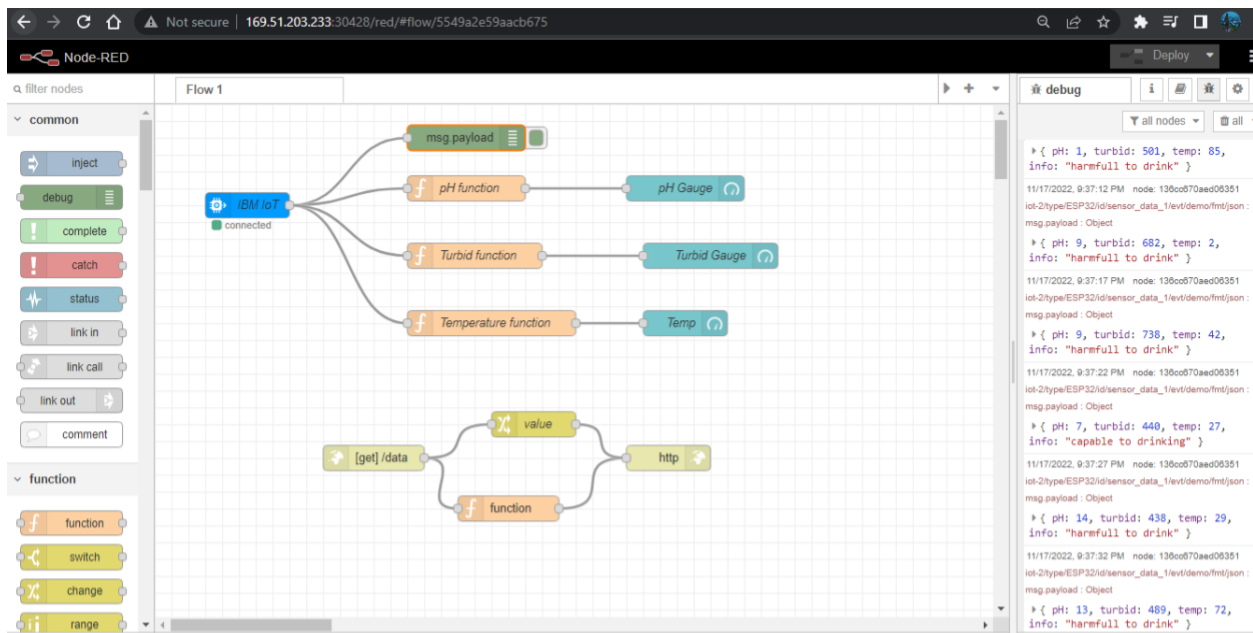
Properties

Method GET

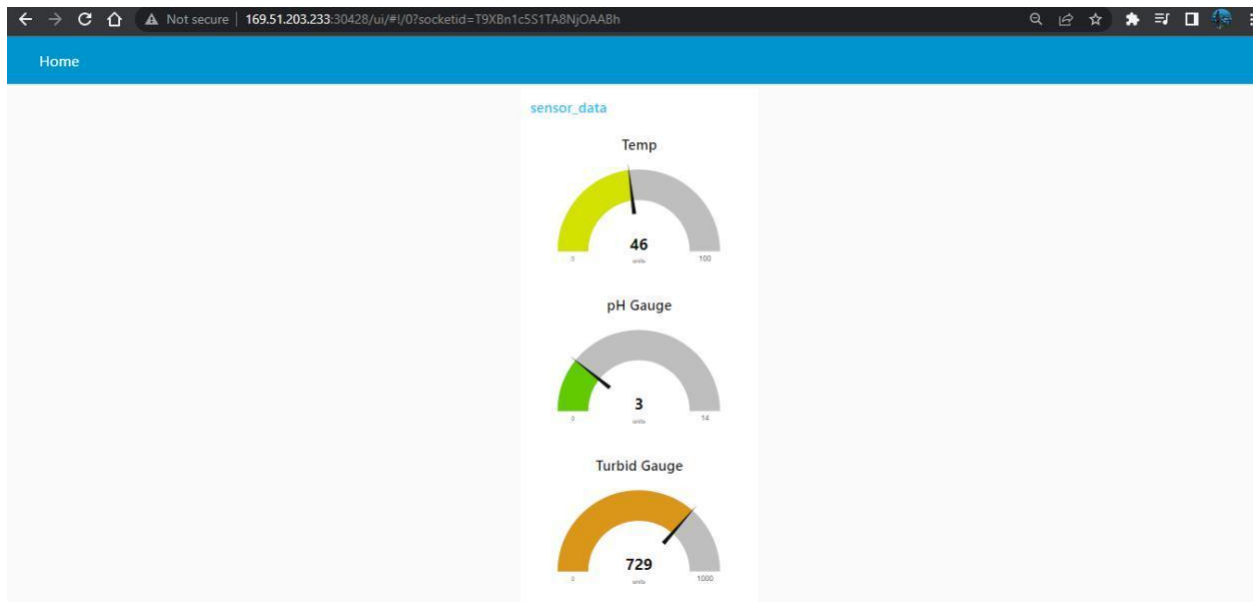
URL /data

Name Name

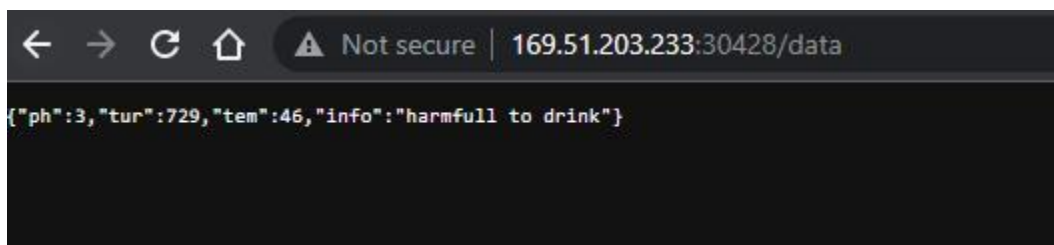
Final flow in Node-RED:



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>