

REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM USING IoT

Submitted by

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**BACHELOR OF ENGINEERING IN
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Real-Time River Water Quality Monitoring and Control System

- **Create Node-RED Service**
- **To create a web application creates a Node-RED service.**

Date	29/10/2022
Team ID	PNT2022TMID23253
Project Name	Real-Time Water Quality Monitoring And Control System

Node-Red LOGIN:

The screenshot shows the 'Resource list' interface in Node-RED. On the left is a sidebar with icons for various resources. The main area displays a table with the following columns: Name, Group, Location, Product, and Status. Below the table are five filter input fields. The table content is as follows:

▼ Name	↑ Group	Location	Product	Status
Q Filter by name or IP address... Filter by group or org... ▼ Filter... ▼ Q Filter... Q Filter...				
^ Compute (1)				
Node RED SLPVG 2022-10-08	2004207ec / doc	London	Node.js	✔ Started
▼ Containers (0)				
▼ Natunrkins (n)				

Node-Red on IBM Cloud:

The screenshot shows the Node-RED on IBM Cloud landing page. At the top, there's a dark header with the text "Node-RED on IBM Cloud". Below this is a large red banner with the "Node-RED" logo and the tagline "Flow-based programming for the Internet of Things". The main content area is light gray and contains three paragraphs of text. The first paragraph states that Node-RED is a programming tool for wiring together hardware devices, APIs, and online services. The second paragraph mentions that this instance is running as an IBM Cloud application. The third paragraph provides a link to the Node-RED documentation. To the right of the text, there is a button labeled "Go to your Node-RED flow editor" and a link labeled "Learn how to customise Node-RED".

Node-RED on IBM Cloud

Node-RED

Flow-based programming for the Internet of Things

Node-RED is a programming tool for wiring together hardware devices, APIs and online services in new and interesting ways.

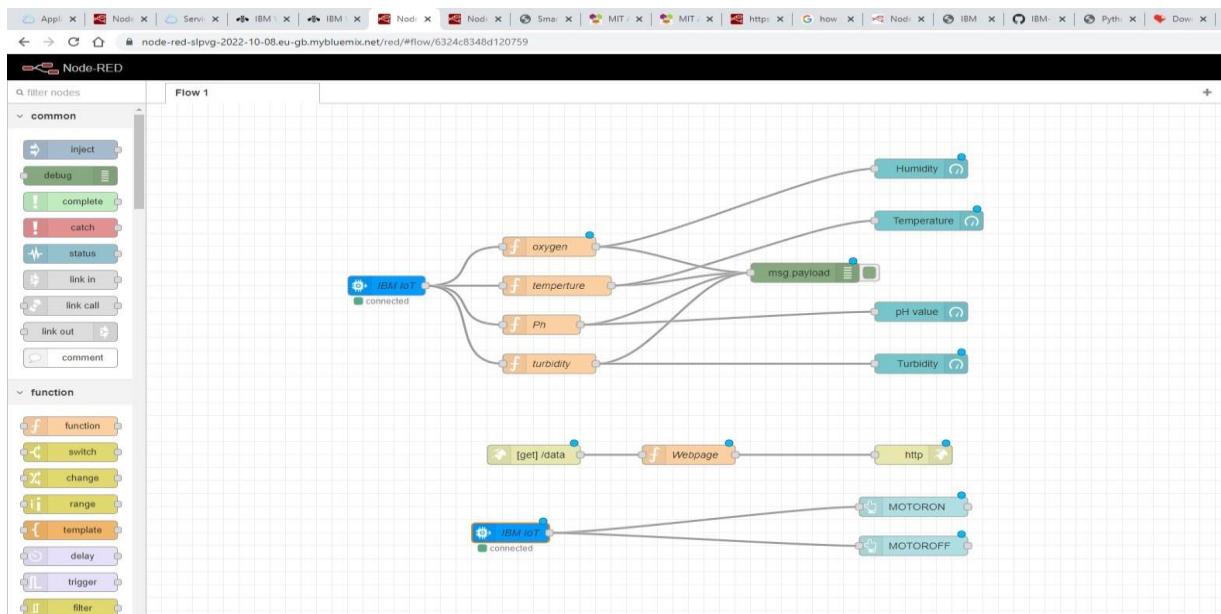
This instance is running as an IBM Cloud application, giving it access to the wide range of services available on the platform.

More information about Node-RED, including documentation, can be found at nodered.org.

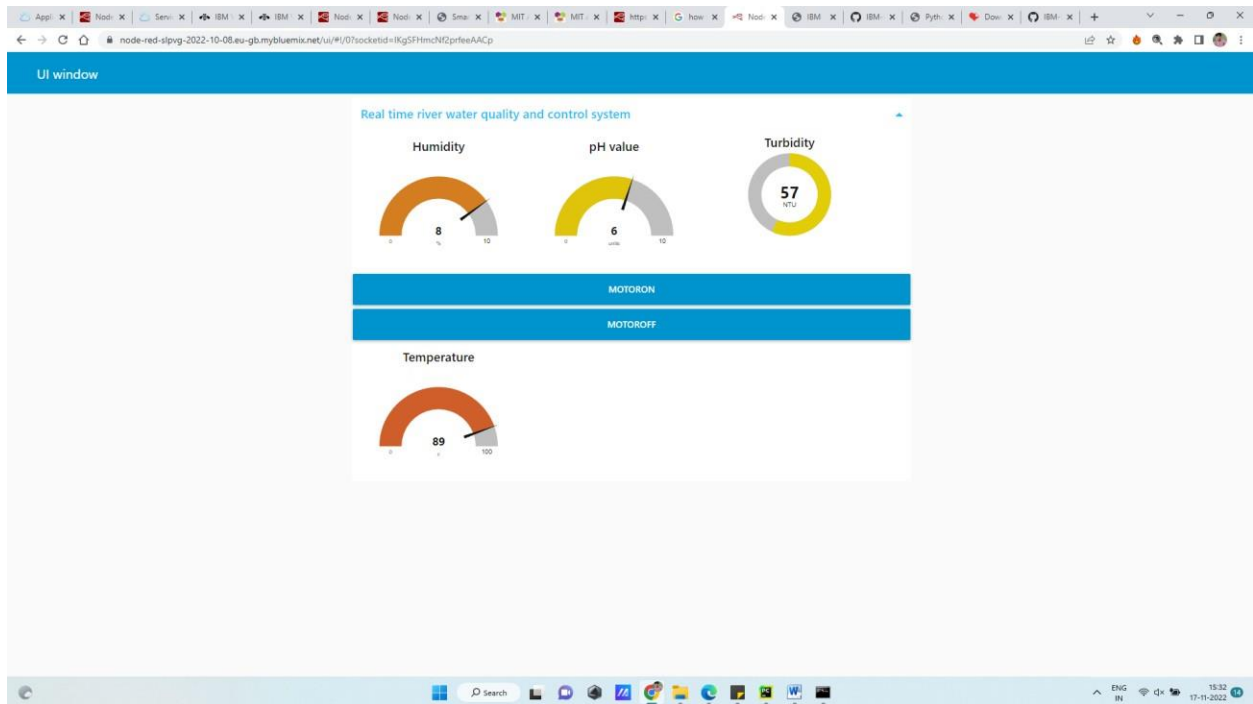
[Go to your Node-RED flow editor](#)

[Learn how to customise Node-RED](#)

Create Node-Red design:



Get Node-Red HTTP output:



Get Node-Red HTTP DATA output:

The screenshot shows a web browser window with the URL `node-red-slpvg-2022-10-08.eu-gb.mybluemix.net/data`. The browser's address bar shows the URL, and the page content displays the following JSON data:

```
{"oxygen":8,"turbidity":57}
```