

CREATE AND CONFIGURE IBM CLOUD SERVICES

Date	03 November 2022
Team ID	PNT2022TMID43379
Project Name	River Water Quality Monitoring and Control System
Maximum Marks	4 Marks

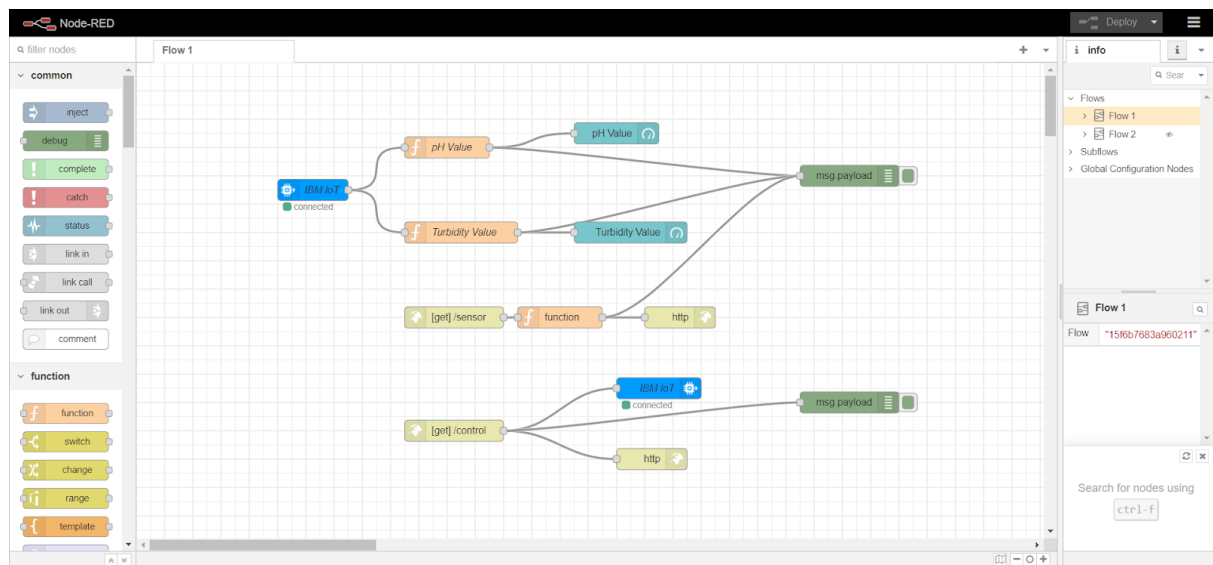
Create IBM Watson IoT Platform And Device:

The top screenshot displays the 'Device Drilldown - RivWatQuality' page in the IBM Watson IoT Platform. The left sidebar contains navigation icons for various functions. The main content area is divided into two sections: 'Connection Information' and 'Recent Events'. The 'Connection Information' section provides details about the device, including its ID, type, date added, and connection status. The 'Recent Events' section shows a list of events, with a 'Starting simulator..' button visible.

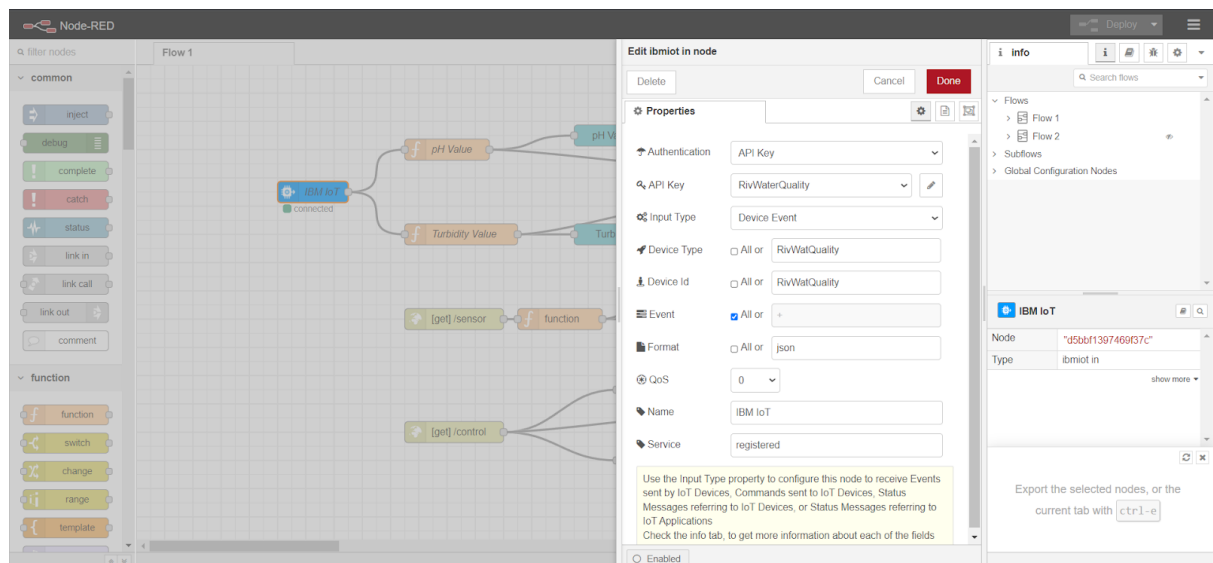
The bottom screenshot shows the 'Your boards' page in the IBM Watson IoT Platform. The page features a 'Create New Board' button and a 'Sort By' dropdown menu. Below these, there are two cards: 'RISK AND SECURITY OVERVIEW' (4 Cards) and 'USAGE OVERVIEW' (3 Cards). A large dashed box with a plus sign is also present, indicating a placeholder for a new board. The bottom section of the page is labeled 'Boards shared with you'.

Create Node-RED Service

NODE-RED Home



IBM IN MODULE



pH Function

The screenshot shows the Node-RED web interface. On the left, the 'function' node palette is visible. The main workspace contains a flow starting with an 'IBM IoT' node (labeled 'connected') that branches into two 'function' nodes: 'pH Value' and 'Turbidity Value'. The 'pH Value' node is selected, and its configuration is shown in the 'Edit function node' panel on the right. The 'Name' field is set to 'pH Value'. The 'On Message' tab is active, showing the following JavaScript code:

```
1 msg.payload = msg.payload.Ph;  
2 global.set('ph',msg.payload)  
3 return msg;
```

The right sidebar shows the 'info' panel with a search bar and a list of nodes. The 'pH Value' node is highlighted in the list.

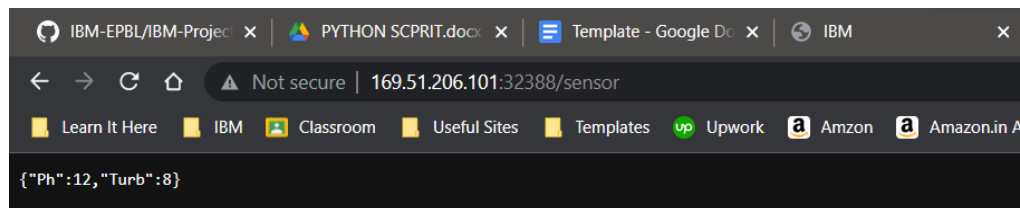
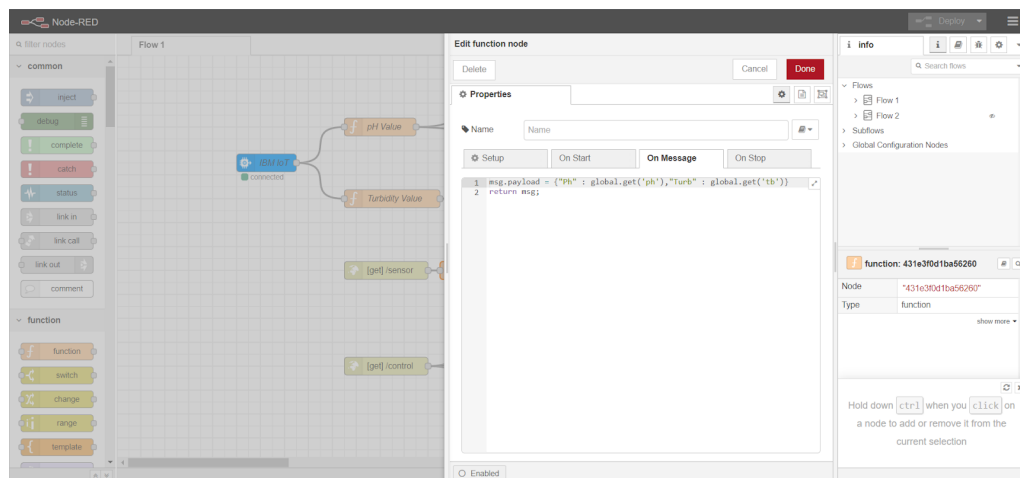
Turbidity Value

The screenshot shows the Node-RED web interface. On the left, the 'function' node palette is visible. The main workspace contains a flow starting with an 'IBM IoT' node (labeled 'connected') that branches into two 'function' nodes: 'pH Value' and 'Turbidity Value'. The 'Turbidity Value' node is selected, and its configuration is shown in the 'Edit function node' panel on the right. The 'Name' field is set to 'Turbidity Value'. The 'On Message' tab is active, showing the following JavaScript code:

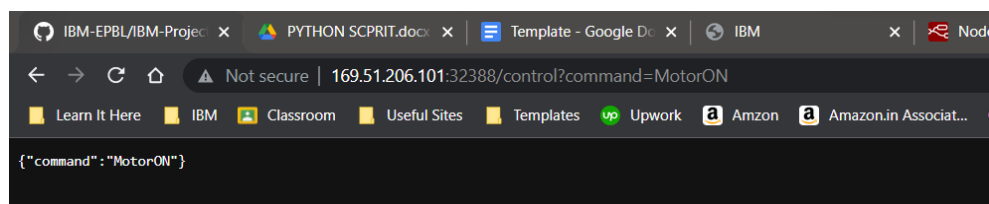
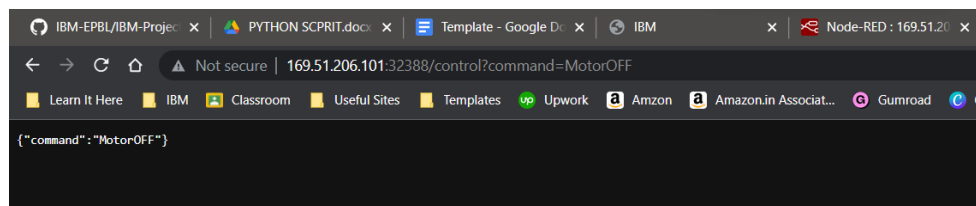
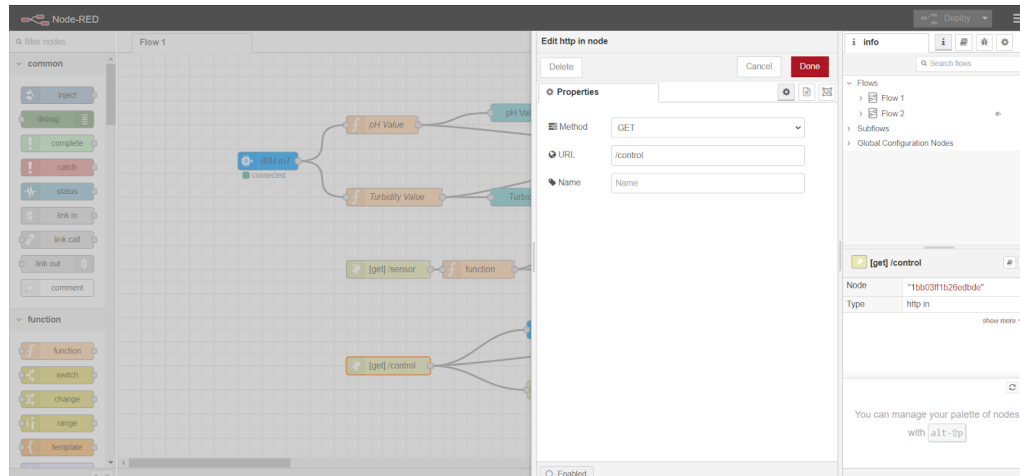
```
1 msg.payload = msg.payload.Turb;  
2 global.set('tb',msg.payload)  
3 return msg;
```

The right sidebar shows the 'info' panel with a search bar and a list of nodes. The 'Turbidity Value' node is highlighted in the list.

Sensor Module



Control Module



IBM Out Module

