## Real time river Quality monitoring and control system SPRINT – 2

TITLE	Real time river Quality monitoring and control system
DOMAIN NAME	INTERNET OF THINGS
TEAM ID	PNT2022TMID20521

## **Building Project**

Connecting IoT Simulator to IBM Watson IoT Platform

Give the credentials of your device in IBM Watson IoT PlatformClick on connect

My credentials given to simulator are:

Organization ID: fwe3x0

**api:** 0cf661005104a3a0

Device type: IOT\_device

Token: 1911010abcdefgh

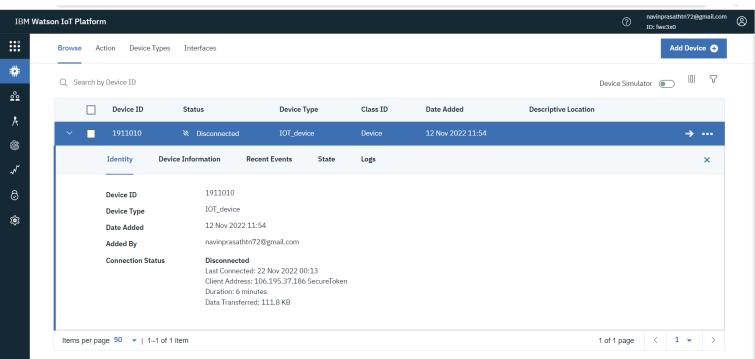
**Device ID: 1911010** 

> You will receive the simulator data in cloud

> You can see the received data in Recent Events under your device

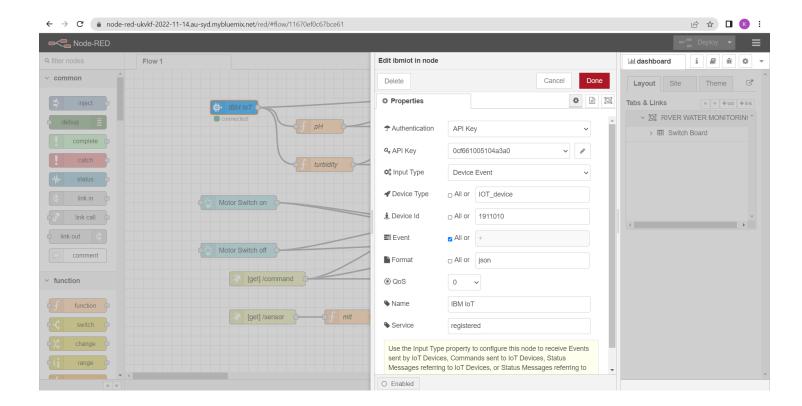
> Data received in this format(json)

```
"d": {
    "name": "1911010",
    "pH": 8,
    "turbidity": 80
}
```



## Configuration of Node-Red to collect IBM cloud data

The node IBM IoT App In is added to the Node-Red workflow. Then the appropriate device credentials obtained earlier are entered into the node to connect and fetch device telemetry to Node-Red.



Once it is connected Node-Red receives data from the device Display the data using debug node for verification

Connect function node and write the Java script code to get each reading separately.

The Java script code for the

function node is:

msg.payload=msg.payload.d.pH returnmsg;

Finally connect Gauge nodes from dashboard to see the data in UI

