

SPRINT 2

TEAM ID: PNT2022TMID46688

REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM

AIM:

To create device in the IOT Watson Platform and Configure Node Red Services.

REQUIREMENT:

IBM cloud, IBM IOT WATSON PLATFORM,NODE RED SERVICES.

WORKFLOW:

STEP 1:

Log on to IBM cloud and create IBM Watson IOT Platform from IBM cloud Dashboard.

STEP 2:

After Creating IBM Watson IOT Platform,create an Organization (ID:vj982m Bluemix Free)

IBM Watson IoT Platform

divakaranjayaraman@gmail.com
ID: vj982m

Browse Action Device Types Interfaces

Add Device +

Browse Devices

All Devices Diagnose

This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.

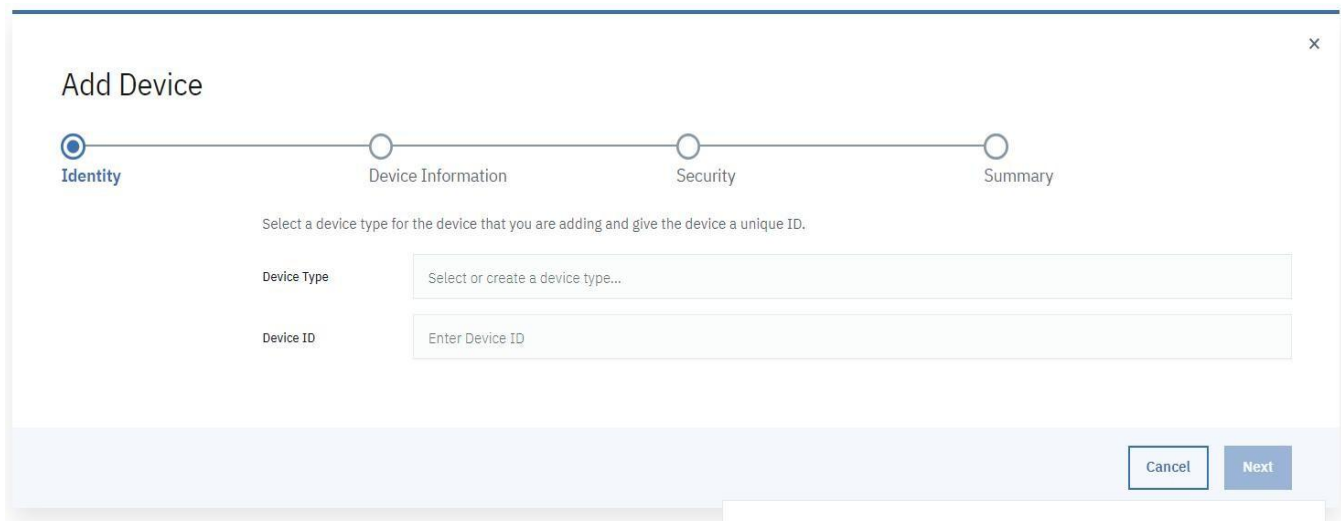
Search by Device ID

Device Simulator ☐ ☐ ☐

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added
> <input type="checkbox"/>	1234	Disconnected	Diva	Device	Nov 17, 2022 12:13 PM

STEP 3:

Create an device IBM IOT PALTFORM.



TYPE THE REQUIRED FIELDS (TYPE: diva , ID: 1234)
GIVE AUTH-TOKEN.

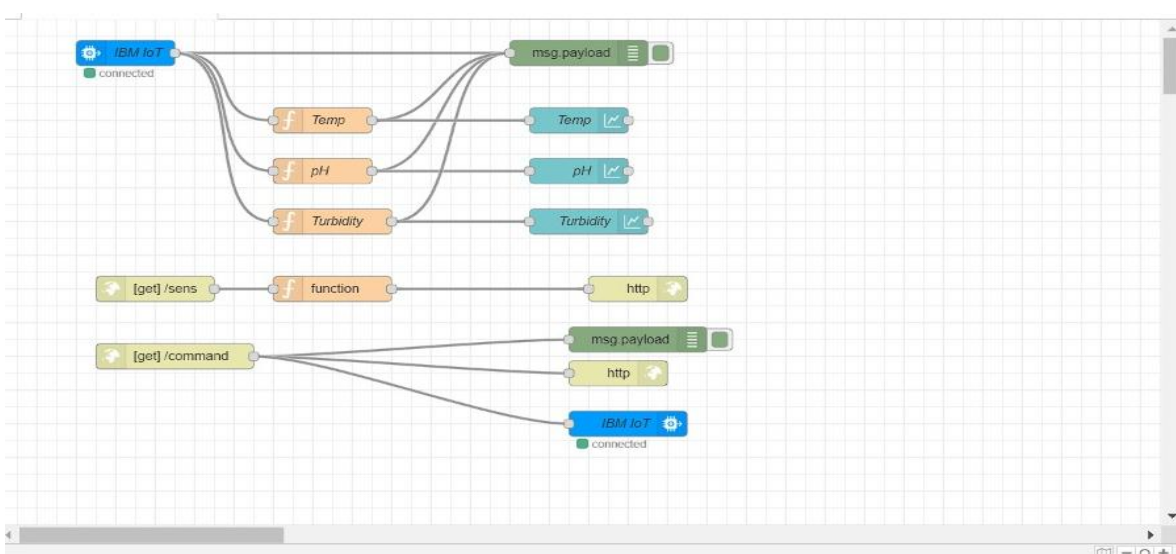
STEP 4:

NODE RED SERVICE

- INSTALL IBM IOT IN MANGE PALETTE.
- INSTALL NODE RED DASHBOARD.

STEP 5:

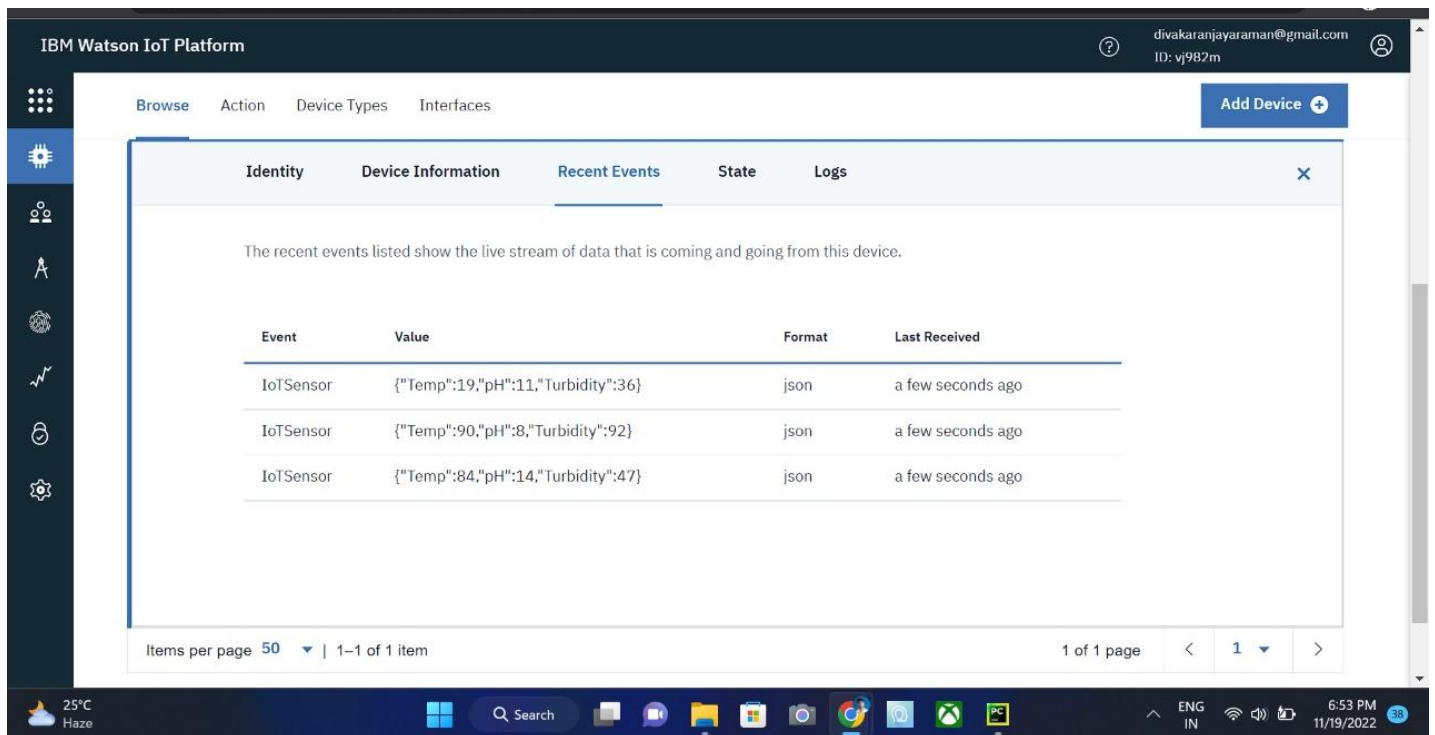
Configuring the corresponding nodes



STEP 6:

Deploy the Services and verify the output values.

OUTPUT IN IBM WATSON IOT PLATFORM:



The screenshot displays the IBM Watson IoT Platform interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A user profile is visible in the top right corner with the email 'divakaranjayaraman@gmail.com' and ID 'vj982m'. The main content area shows the 'Recent Events' tab for a device, displaying a table of live data events.

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
IoT Sensor	{"Temp":19,"pH":11,"Turbidity":36}	json	a few seconds ago
IoT Sensor	{"Temp":90,"pH":8,"Turbidity":92}	json	a few seconds ago
IoT Sensor	{"Temp":84,"pH":14,"Turbidity":47}	json	a few seconds ago

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{"Temp":22,"pH":7,"Turbidity":57}
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