

SPRINT 2

TEAM ID: PNT2022TMID49415

Smart Waste Management System For Metropolitan Cities

AIM:

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

REQUIREMENT:

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

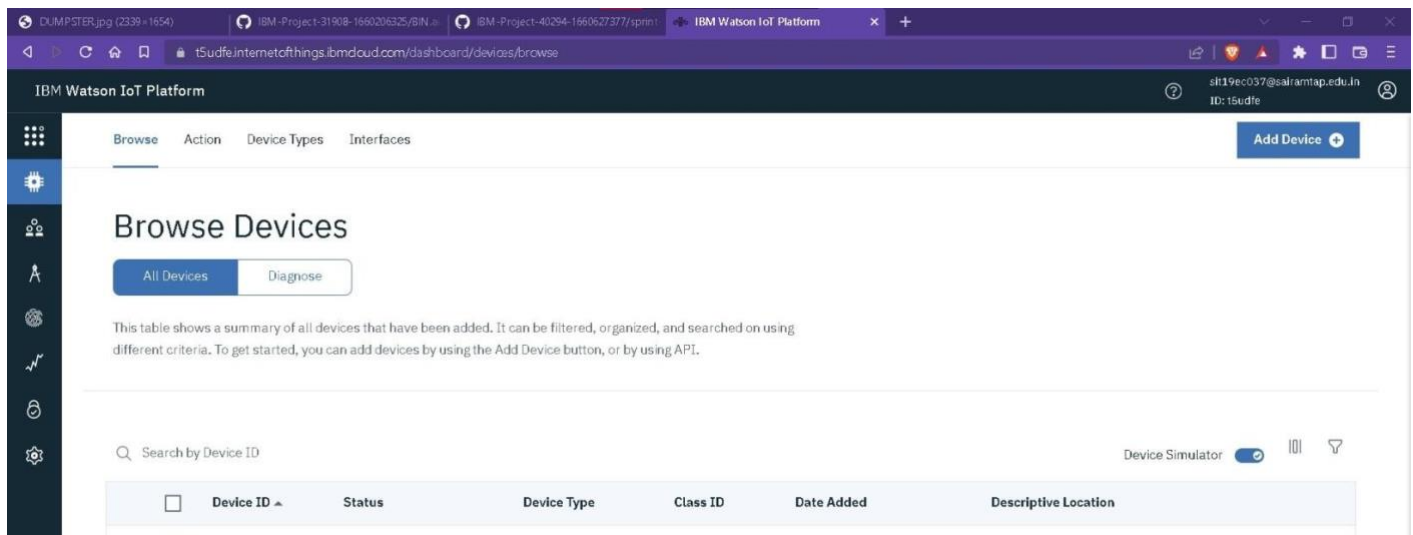
WORKFLOW:

STEP 1:

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

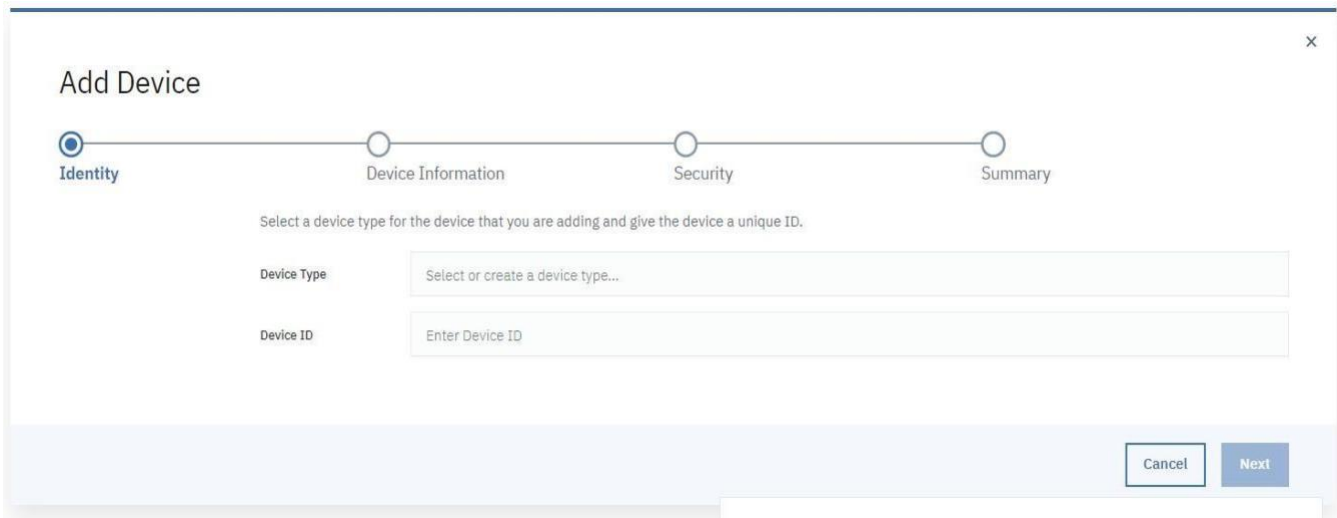
STEP 2:

After Creating IBM Watson IOT Platform,create an Organization



STEP 3:

Create an device IBM IOT PALTFORM.



TYPE THE REQUIRED FIELDS (TYPE: Raspberrypi , ID: 12345)GIVE AUTH-TOKEN.

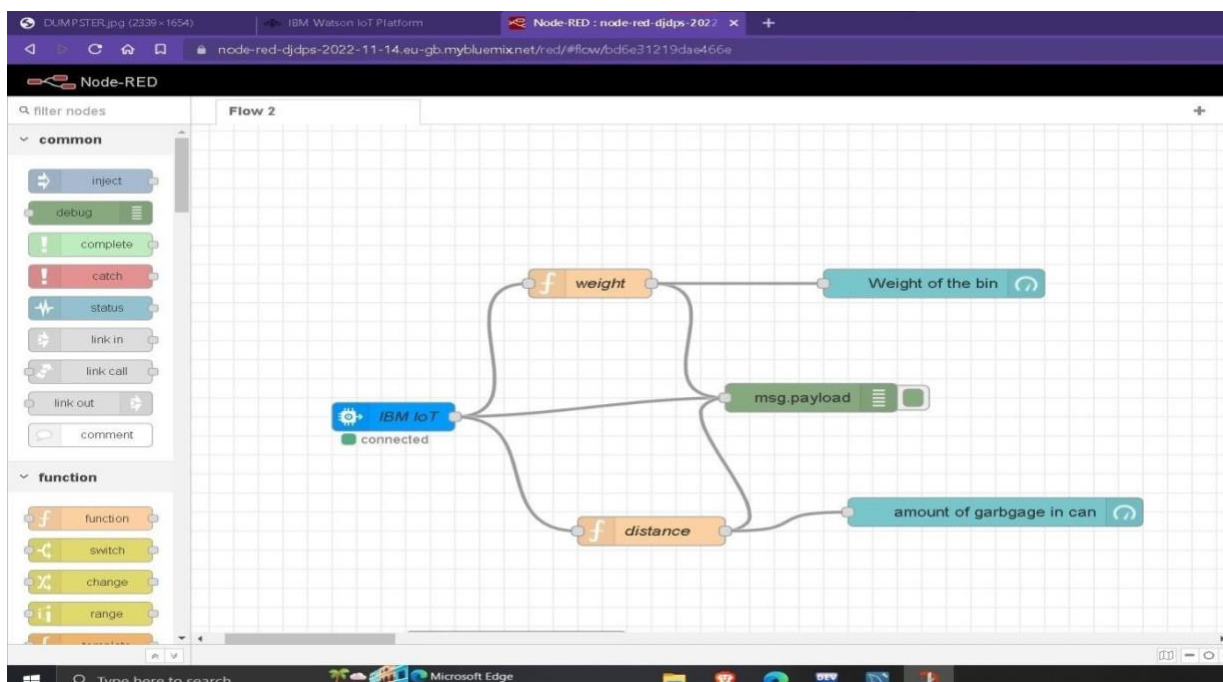
STEP 4:

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 shows the IBM Watson IoT Platform interface. The 'Recent Events' tab is selected, displaying a table of events. The table has four columns: Event, Value, Format, and Last Received. The events are listed as 'event_1' with various JSON payloads. Below the table, it indicates 'Items per page 50' and '1 of 1 page'. A status bar at the bottom shows '1 Simulation running'.

Event	Value	Format	Last Received
event_1	{"distance":96,"weight":1}	json	a few seconds ago
event_1	{"distance":180,"weight":5}	json	a few seconds ago
event_1	{"distance":148,"weight":9}	json	a few seconds ago
event_1	{"distance":74,"weight":8}	json	a few seconds ago
event_1	{"distance":101,"weight":8}	json	a few seconds ago

The screenshot shows the IBM Watson IoT Platform interface. The 'Device Information' tab is selected, displaying a table of device information. The table has five columns: Device ID, Status, Device Type, Class ID, and Date Added. The device information is listed as '12345', 'Disconnected', 'raspberrypi', 'Device', and '12 Nov 2022 19:26'. Below the table, it indicates 'Items per page 50' and '1 of 1 item'. A modal window is open, showing the 'Device Type: raspberrypi' configuration. The modal includes fields for 'Event type name' (event_1), 'Schedule' (20 Every Minute), and 'Payload' (a JSON object with 'distance' and 'weight' fields). The modal also has a 'Send' button and a 'Cancel' button.

Device ID	Status	Device Type	Class ID	Date Added
12345	Disconnected	raspberrypi	Device	12 Nov 2022 19:26