

SPRINT 2

TEAM ID: PNT2022TMID20979

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.

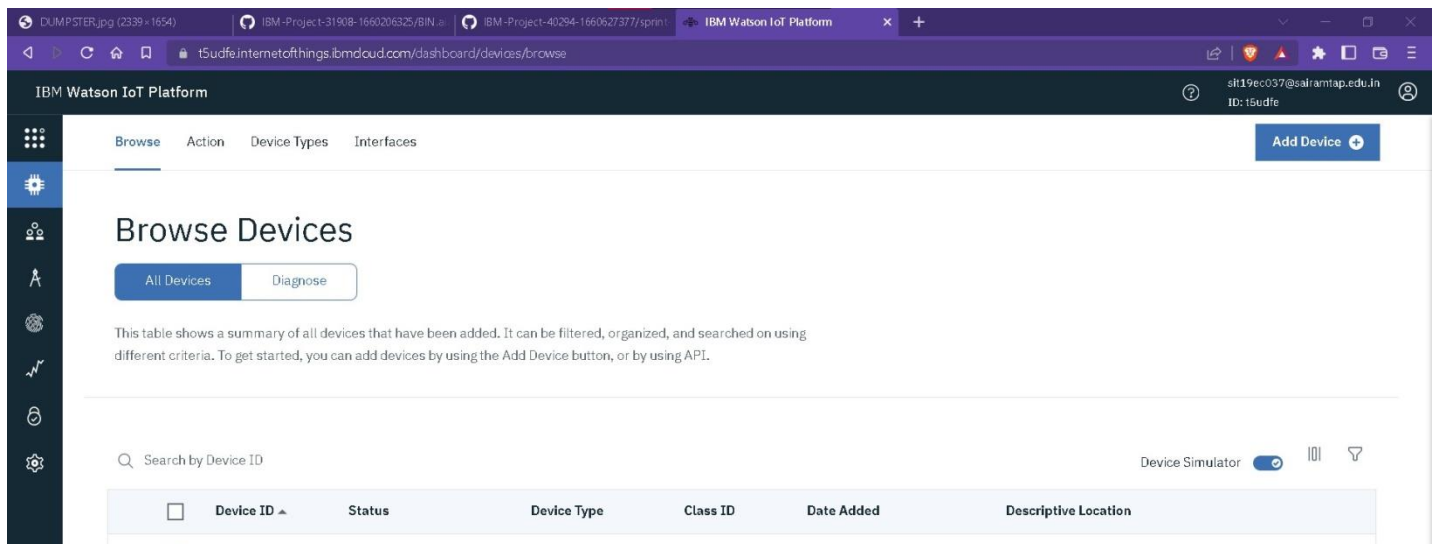
WORKFLOW:

STEP 1:

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

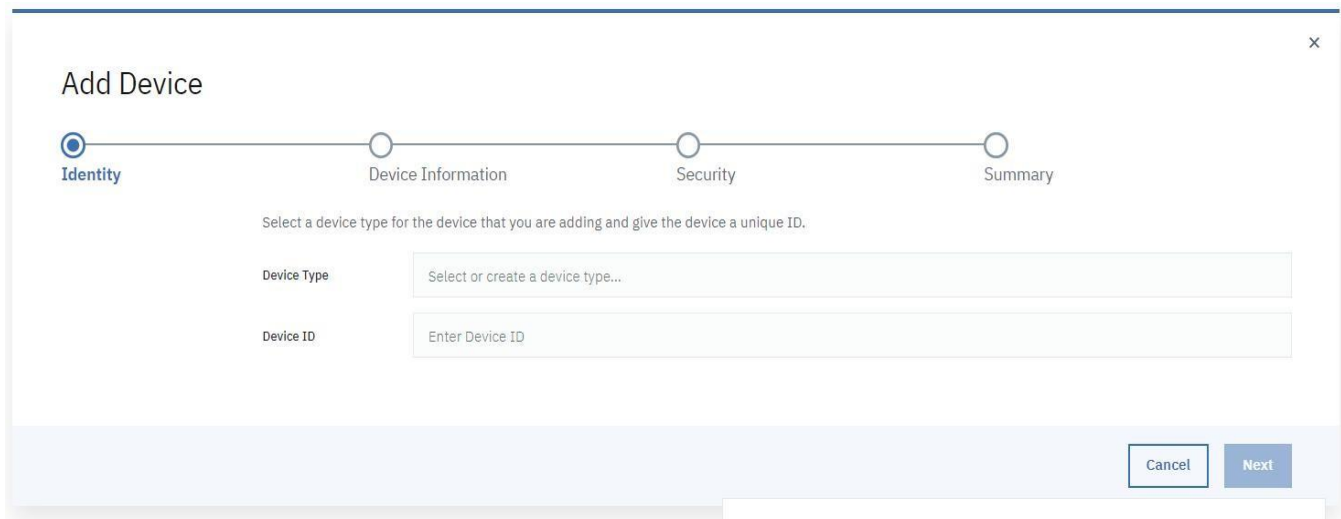
STEP 2:

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.

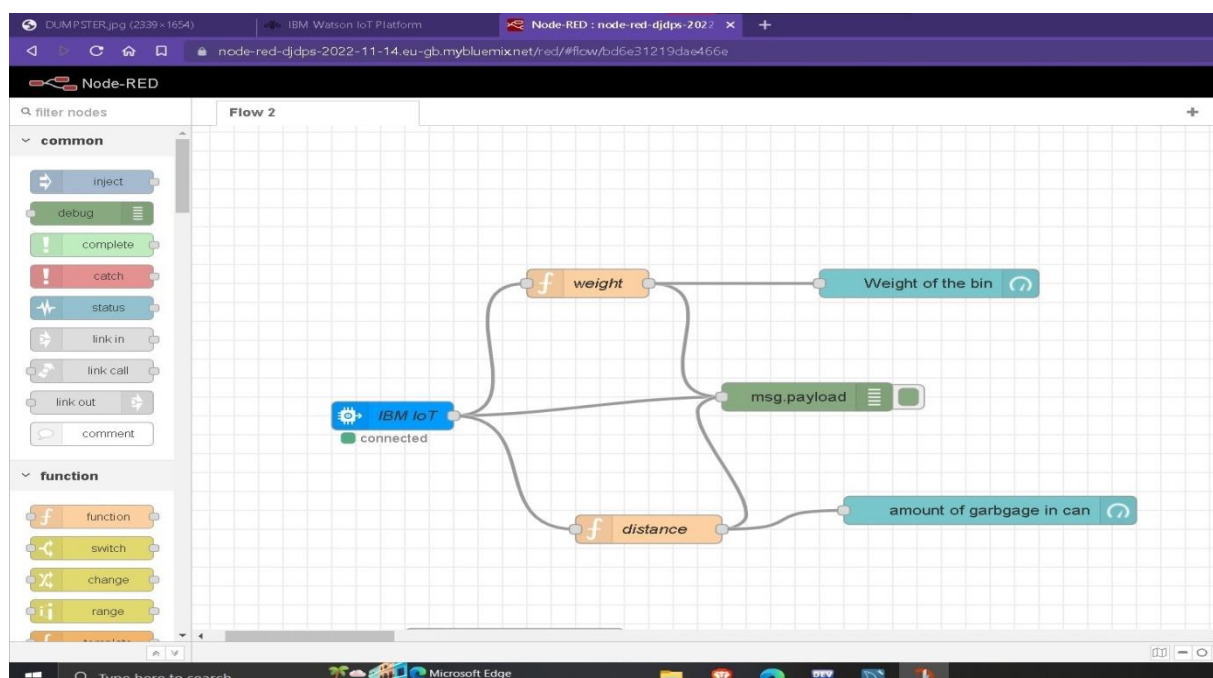
STEP 4:

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 displays the IBM Watson IoT Platform interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. The main content area is titled 'Recent Events' and shows a table of events. The table has columns for 'Event', 'Value', 'Format', and 'Last Received'. The events listed are 'event_1' with values like '{"distance":96,"weight":1}' and '{"distance":180,"weight":5}', all in 'json' format and received 'a few seconds ago'. A status bar at the bottom indicates '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

This screenshot shows the IBM Watson IoT Platform interface with a modal window open for configuring a device type. The background shows a table of devices, including one with ID 12345, status 'Disconnected', and type 'raspberrypi'. The modal window, titled 'Device Type: raspberrypi', allows setting an event type name to 'event_1', a schedule of 'Every Minute', and a payload of '{"distance": random(0,200), "weight": random(0,10)}'. The modal also includes a 'Send' button, a 'New event type' button, and an 'Upload a CSV file' option.

Device ID	Status	Device Type	Class ID
12345	Disconnected	raspberrypi	Device

Device Details for ID 12345:

- Device ID: 12345
- Device Type: raspberrypi
- Date Added: 12 Nov 2022 19:26
- Added By: sit19ec037@sairamtap.edu.in
- Connection Status: Disconnected