

Smart Waste Management System for Metropolitan Cities

Sprint-2

AIM:

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

REQUIREMENT:

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

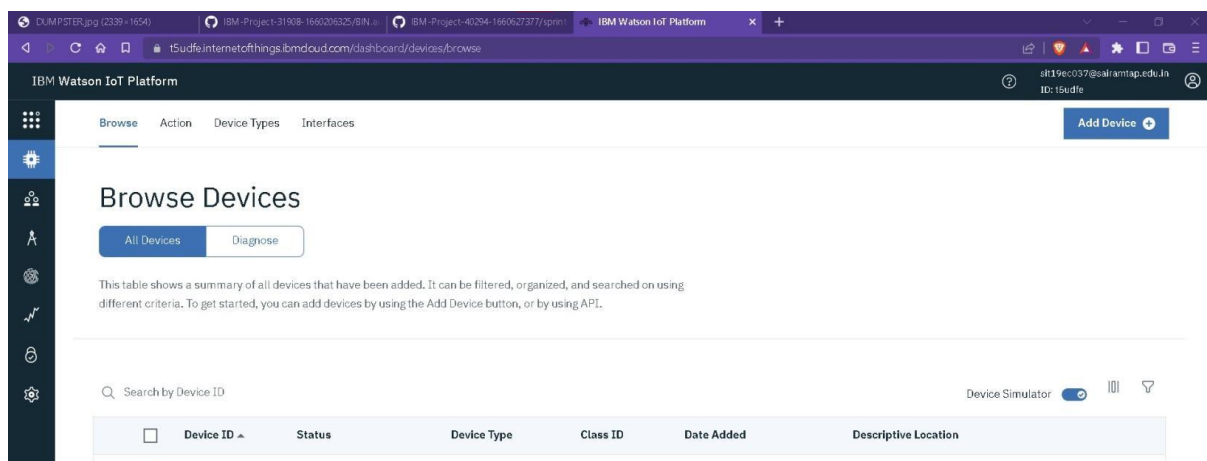
WORKFLOW:

STEP 1:

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

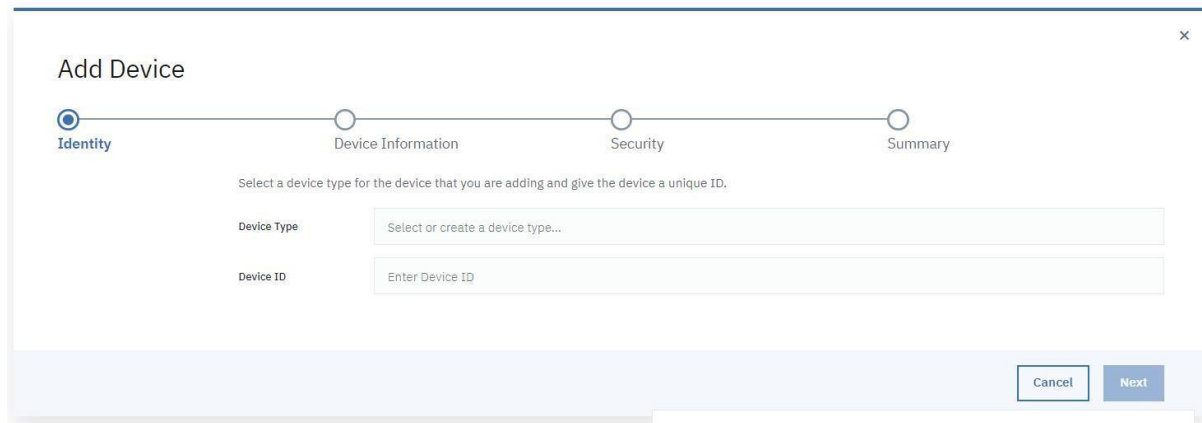
STEP 2:

After Creating IBM Watson IOT Platform, create an Organization.



STEP 3:

Create a device IBM IOT PLATFORM.



Add Device

Identity — Device Information — Security — Summary

Select a device type for the device that you are adding and give the device a unique ID.

Device Type:

Device ID:

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

STEP 4:

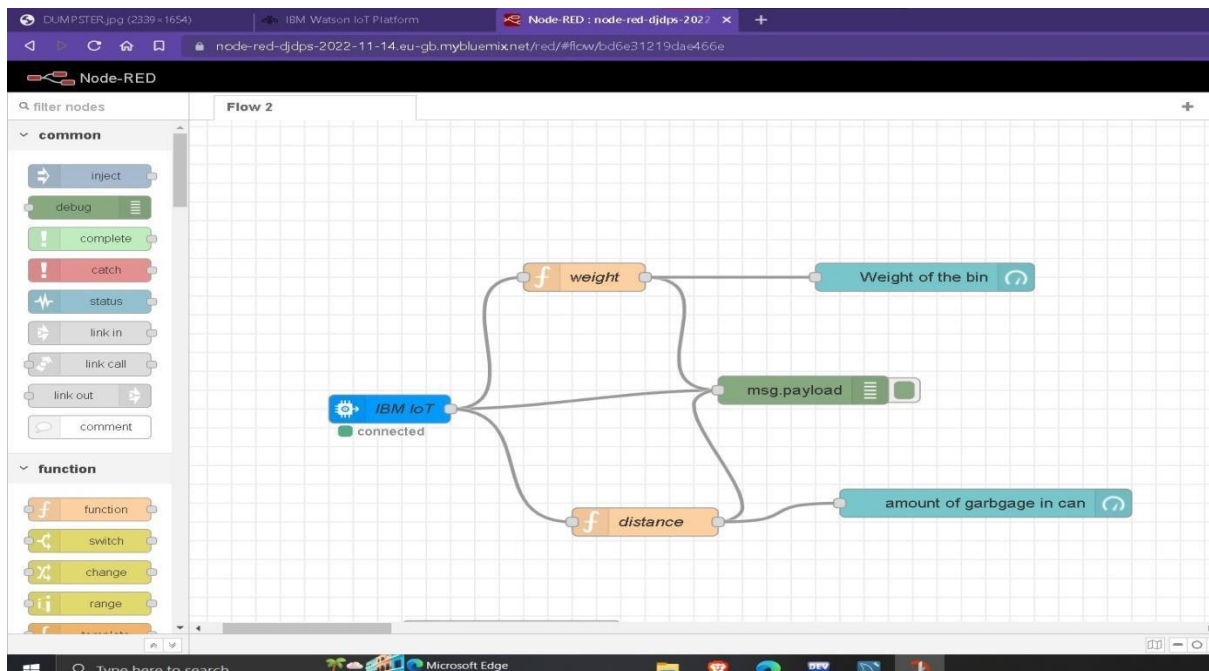
*NODE RED SERVICE

*INSTALL IBM IOT IN MANAGE 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:

IBM Watson IoT Platform

15udfe.internetofthings.ibmcloud.com/dashboard/devices/browse

st119ec037@sairamtap.edu.in
ID: 15udfe

Browse Action Device Types Interfaces

Add Device

Identity Device Information Recent Events State Logs

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

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

Items per page 50 | 1-1 of 1 item

1 of 1 page

1 Simulation running

IBM Watson IoT Platform

15udfe.internetofthings.ibmcloud.com/dashboard/devices/browse

st119ec037@sairamtap.edu.in
ID: 15udfe

Browse Action Device Types Interfaces

Search by Device ID

Device ID	Status	Device Type	Class ID
12345	Disconnected	raspberrypi	Device

Identity Device Information Recent Events State Logs

Device ID: 12345
Device Type: raspberrypi
Date Added: 12 Nov 2022 19:26
Added By: st119ec037@sairamtap.edu.in
Connection Status: Disconnected

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Device Type: raspberrypi

Events 1

New event type

Event type name: event_1

Schedule: 20 Every Minute

Payload: Specify the event payload in the editor window or by uploading a CSV file.

```
0 {  
1 "distance": random(0,200)  
2 "weight": random(0,10)  
3 }  
4  
5
```

Upload a CSV file

Cancel Save