

## SPRINT 2

Team ID	PNT2022TMID21058
Project Name	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



[Browse](#) [Action](#) [Device Types](#) [Interfaces](#) [Add Device](#) 

## Browse Devices

[All Devices](#) [Diagnose](#)

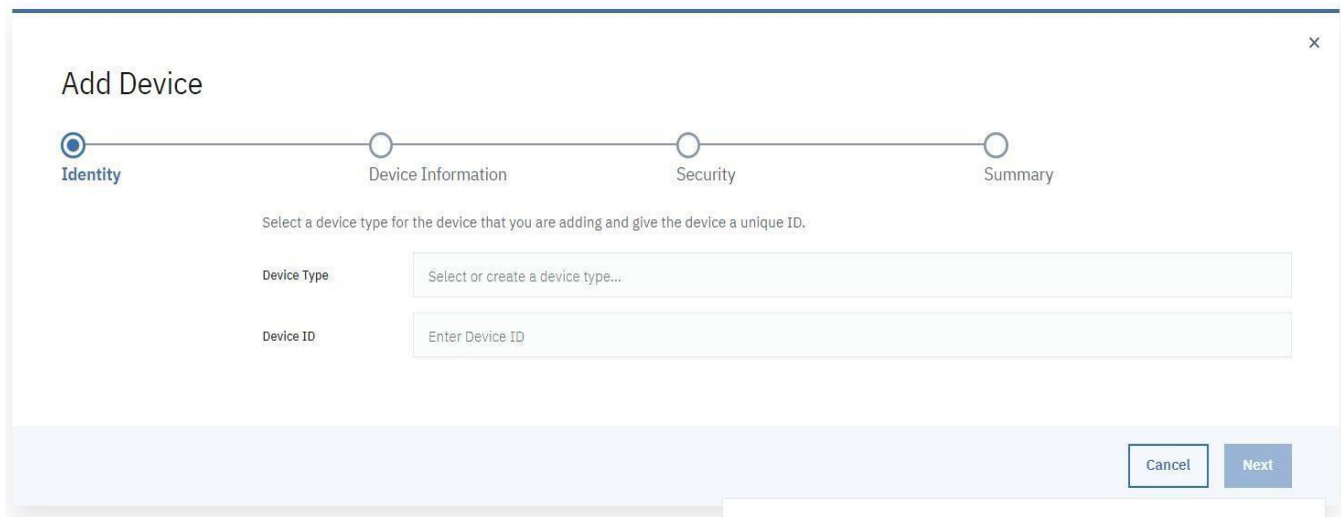
This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.

Device Simulator   

 Device ID 	Status	Device Type	Class ID	Date Added	Descriptive Location
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### STEP 3:

Create an device IBM IOT PALTFORM.



The 'Add Device' dialog box shows a four-step process: Identity, Device Information, Security, and Summary. The 'Identity' step is active. It prompts the user to 'Select a device type for the device that you are adding and give the device a unique ID.' There are two input fields: 'Device Type' with a placeholder 'Select or create a device type...' and 'Device ID' with a placeholder 'Enter Device ID'. At the bottom right are 'Cancel' and 'Next' buttons.

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

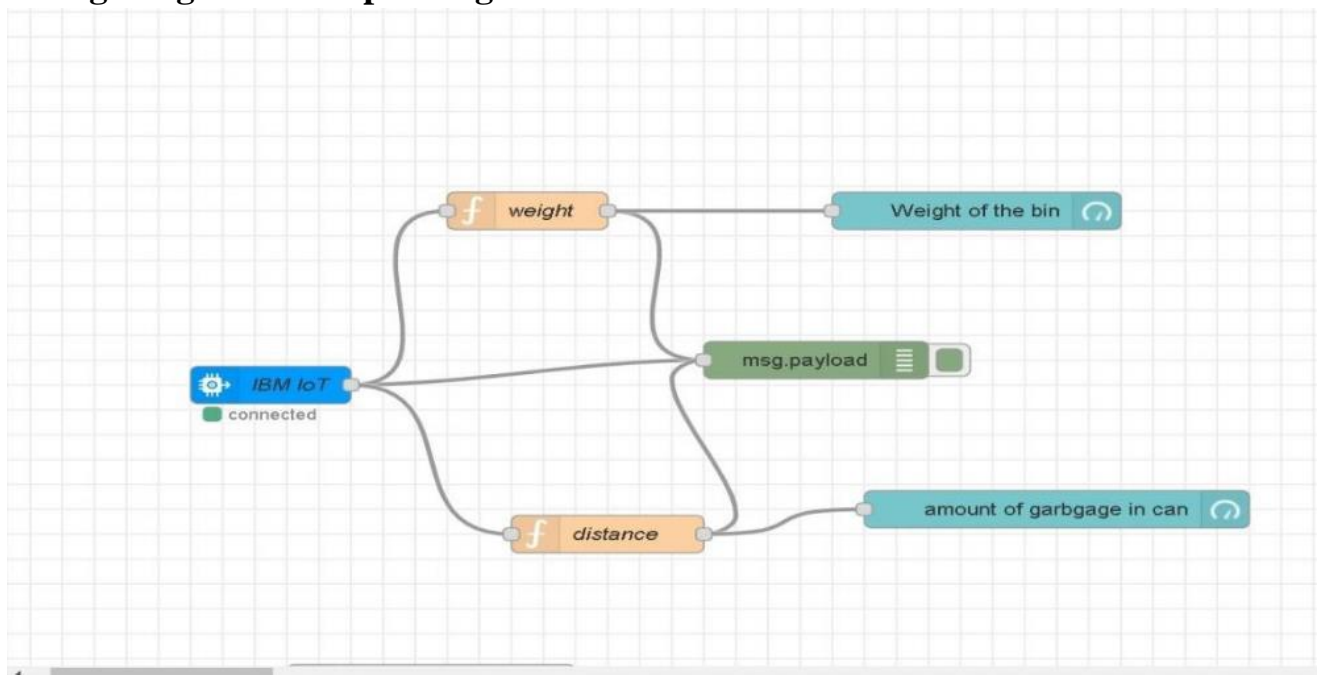
### STEP 4:

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:

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	