

Smart Waste Management System for Metropolitan Cities

Prerequisites - IBM Cloud Services:

I and all my team members have create accounts in the below platform and we also worked with them and used those services for our project works.

- IBM Watson IoT Platform
- Node-RED Service
- Cloudant DB

creenshot of those services:

i) IBM Watson IoT Platform:

[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.

Q

Search by Device ID

Device Simulator

	Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location	Added By	Device Class
>	12345	Disconnected	NodeMCU	Device	Oct 17, 2022 2:36 PM		111719106009@smartinternz.com	
>	12345	Disconnected	raspberrypi	Device	Oct 20, 2022 8:19 PM		111719106009@smartinternz.com	

Items per page 50 | 1-2 of 2 items

1 of 1 page

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ii) Node-RED Service:

Node-RED on IBM Cloud

Node-RED

Flow-based programming for the Internet of Things

Node-RED is a programming tool for wiring together hardware devices, APIs and online services in new and interesting ways.

This instance is running as an IBM Cloud application, giving it access to the wide range of services available on the platform.

More information about Node-RED, including documentation, can be found at nodered.org.

[Go to your Node-RED flow editor](#)

[Learn how to customise Node-RED](#)

Customising your instance of Node-RED

This instance of Node-RED is enough to get you started creating flows.

You may want to customise it for your needs, for example replacing this introduction page with your own, adding http authentication to the flow editor or adding new nodes to the palette.

To start customising your instance of Node-RED, you can either download the application locally or use IBM DevOps Services to edit and deploy your changes directly.

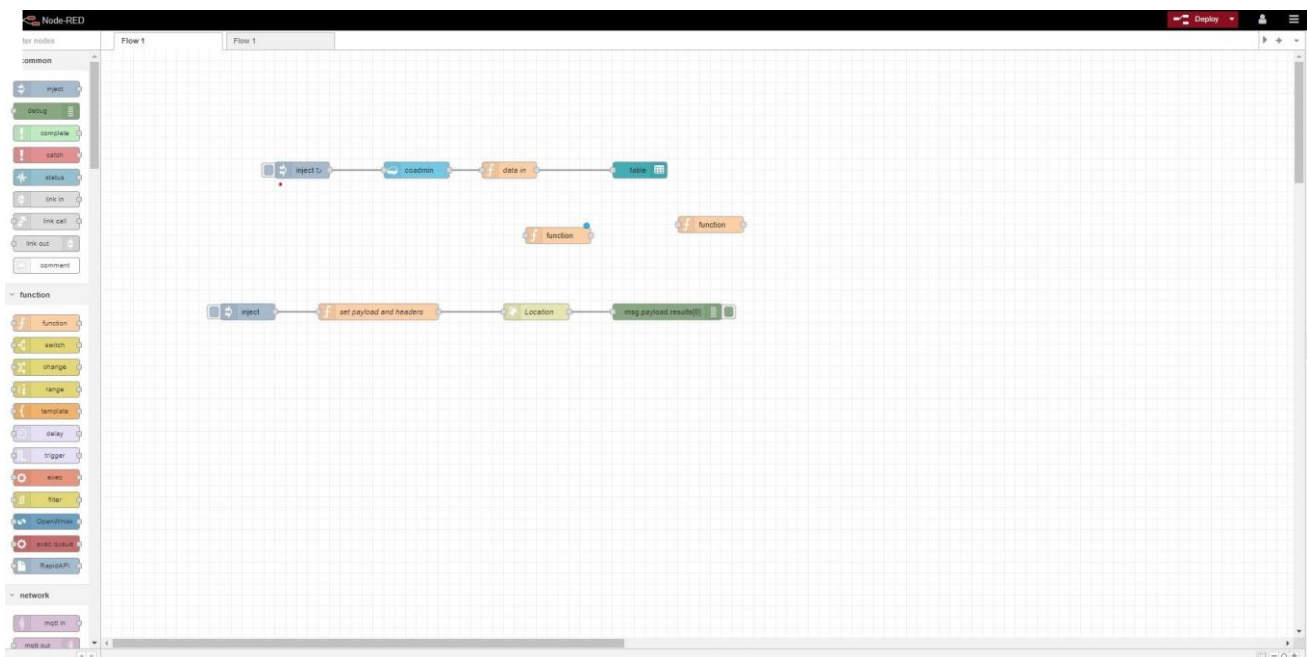
+ Securing the editor

+ Enabling Application Metrics for Node.js monitoring

+ Adding new nodes to the palette

+ Upgrading the version of Node-RED

Node Red Flow:



iii) Cloudbant DB

Monitoring

Databases

Replication

Active Tasks

Account

Support

Documentation

IBM Cloudant

out IBMid-6760000P4U

Databases

Database name

Create Database

{ } JSON

Your Databases

Name	Size	# of Docs	Partitioned	Actions
admin	85 bytes	1	No	<div></div> <div></div> <div></div>
coadmin	209 bytes	2	No	<div></div> <div></div> <div></div>
projectnalaiyathiran	91.9 KB	4	No	<div></div> <div></div> <div></div>
truckdriver	226 bytes	2	No	<div></div> <div></div> <div></div>

Showing 1-4 of 4 databases. Databases per page 20 1