

Smart Waste Management System for Metropolitan Cities

Project Objectives - Create and Configure 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

Screenshot of those services:

i) IBM Watson IoT Platform:

IBM Watson IoT Platform

111719106009@smartinternz.com
ID: rhpwpj

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.

Search by Device ID

Device Simulator ☐

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location	Added By	Device Class
> <input type="checkbox"/>	12345	Disconnected	NodeMCU	Device	Oct 17, 2022 2:36 PM		111719106009@smartinternz.com	
> <input type="checkbox"/>	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 < 1 >

ii) Node Red Service:

The screenshot shows the IBM Cloud dashboard for a project named "Project Nalaiyathiran". The interface is divided into several sections:

- Details:** Displays the App URL, Source (https://eu-gb.git.cloud.ibm.com/...), Resource group (Default), Deployment target (Project Nalaiyathiran), and Created date (10/10/2022).
- Services:** Features a "Cloudant" service card with links to "Open dashboard", "Documentation", and "API reference". It also includes a "Credentials" dropdown and buttons for "Connect existing services" and "Create service".
- Deployment Automation:** Shows the Name (ProjectNalaiyathiran), Location (London), and Tool integrations. Below this, the "Delivery Pipelines" section lists two pipelines: "pr-pipeline" (No stages detected) and "ci-pipeline" (Success).
- Getting started quickly:** A sidebar with a close button (X) containing instructions for configuring the app, building, running, and deploying it locally. It includes a list of steps and terminal commands for local deployment.

The screenshot displays the "Node-RED on IBM Cloud" introduction page. The header features the "Node-RED" logo and the tagline "Flow-based programming for the Internet of Things".

The main content area includes:

- A paragraph explaining that Node-RED is a programming tool for wiring together hardware devices, APIs, and online services.
- A button labeled "Go to your Node-RED flow editor".
- A link to "Learn how to customise Node-RED".
- A section titled "Customising your instance of Node-RED" with the text: "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."
- A list of four customization tasks, each with a plus icon and a link to a guide:
 - + Securing the editor
 - + Enabling Application Metrics for Node.js monitoring
 - + Adding new nodes to the palette
 - + Upgrading the version of Node-RED

iii) Cloudant DB

Monitoring

Databases

Replication

Active Tasks

Account

Support

Documentation

Log Out IBMId-676000QP4U

Databases

Database name

Create Database

{ }JSON

Your Databases

Name	Size	# of Docs	Partitioned	Actions
admin	85 bytes	1	No	
coadmin	209 bytes	2	No	
projectnalaithiran	91.9 KB	4	No	
truckdriver	226 bytes	2	No	

Showing 1–4 of 4 databases.

Databases per page

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