

Team ID	PNT2022TMID35517
Project Name	Project - Smart Waste Management System For Metropolitan Cities

# Prerequisites

## IBM Watson IoT Platform:

IBM Watson IoT Platform

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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

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
1	Disconnected	my_devices	Device	Nov 13, 2022 11:16 AM	
12	Disconnected	abcd	Device	Nov 1, 2022 7:21 PM	

Items per page 50 | 1-2 of 2 items

1 of 1 page

0 Simulations running

IBM Watson IoT Platform

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### General Settings

Here you can see and modify global organization information and locally enable experimental Watson IoT Platform features.

PLATFORM

About

Identity

Experimental Features

Last Event Cache

Client Connection

State API

DATA AND DEVICES

Custom Device

Management Packages

Device Simulator

About

The organization type sets the limits for the amount of data traffic your organization supports. An administrator for your IBM Cloud organization can choose a new plan from the IBM Cloud service page.

Date Created 11/01/2022

Organization Type Bluemix Free

Geographic Location eu-de

Identity

The organization ID and friendly name are the global identifiers of your organization. Administrators can modify the global name.

Organization ID js87ki

Friendly Name js87ki

Mail

0 Simulations running

## Node Red:

```
node-red
Microsoft Windows [Version 10.0.19044.2130]
(c) Microsoft Corporation. All rights reserved.

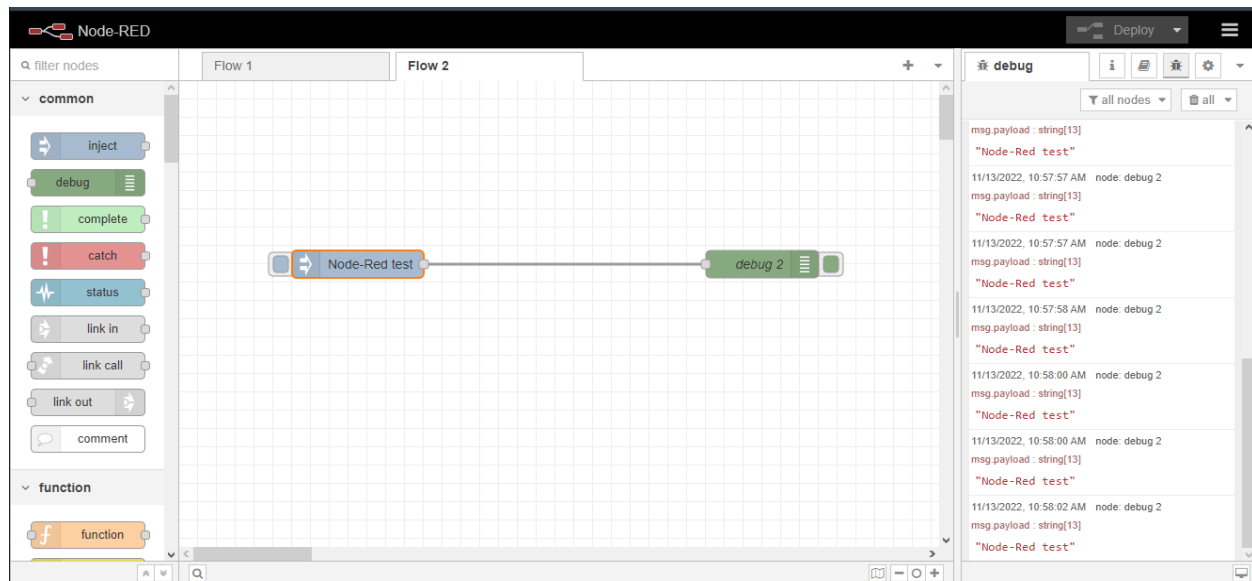
C:\Users\Vishwanathan>node-red
13 Nov 10:49:57 - [info]

Welcome to Node-RED
=====
13 Nov 10:49:57 - [info] Node-RED version: v3.0.2
13 Nov 10:49:57 - [info] Node.js version: v18.12.1
13 Nov 10:49:57 - [info] Windows NT 10.0.19044 x64 LE
13 Nov 10:50:41 - [info] Loading palette nodes
13 Nov 10:51:31 - [info] Worldmap version 2.31.0
13 Nov 10:51:35 - [info] Dashboard version 3.2.0 started at /ui
13 Nov 10:51:36 - [info] Settings file : C:\Users\Vishwanathan\.node-red\settings.js
13 Nov 10:51:36 - [info] Context store : 'default' [module=memory]
13 Nov 10:51:36 - [info] User directory : \Users\Vishwanathan\.node-red
13 Nov 10:51:36 - [warn] Projects disabled : editorTheme.projects.enabled=false
13 Nov 10:51:36 - [info] Flows file : \Users\Vishwanathan\.node-red\flows.json
13 Nov 10:51:36 - [warn]

-----
Your flow credentials file is encrypted using a system-generated key.

If the system-generated key is lost for any reason, your credentials
file will not be recoverable, you will have to delete it and re-enter
your credentials.

You should set your own key using the 'credentialSecret' option in
your settings file. Node-RED will then re-encrypt your credentials
file using your chosen key the next time you deploy a change.
-----
13 Nov 10:51:36 - [info] Server now running at http://127.0.0.1:1880/
13 Nov 10:51:36 - [info] Starting flows
13 Nov 10:51:36 - [info] Started flows
```



## Cloudant DB:

The screenshot shows the IBM Cloud console interface. At the top, there's a search bar and navigation tabs like 'Catalog', 'Manage', and 'Kasi Viswanathan S's A...'. Below the search bar, the resource list shows 'Cloudant-kk' with a green 'Active' status and an 'Add tags' link. The 'Overview' tab is selected, displaying deployment details:

- CRN:** crm:v1:bluemix:public:cloudantnosqldb:eu-gb:a/d46a2f9e6f3d4c87a26172c23d5e836d:a1754d35-cc6f-4368-a014-9a4ebd90b81f::
- Location:** London
- External endpoint:** <https://ade6d239-b201-49e3-8c8c-fd1fd9fef164-bluemix.cloudant.com>
- External endpoint (preferred):** <https://ade6d239-b201-49e3-8c8c-fd1fd9fef164-bluemix.cloudantnosqldb.appdomain.cloud>
- Authentication methods:** [IBM Cloud IAM](#)
- Activity Tracker event types:** Management (dropdown menu) and Save button.

At the bottom, there's a 'Disk allocation' section with a 'Yes' button and a note: 'Automatically generated disk allocation key'.

The screenshot shows the Cloudant dashboard in a web browser. The URL is [ade6d239-b201-49e3-8c8c-fd1fd9fef164-bluemix.cloudant.com/dashboard.html#/all\\_dbs](https://ade6d239-b201-49e3-8c8c-fd1fd9fef164-bluemix.cloudant.com/dashboard.html#/all_dbs). The left sidebar contains navigation links: Monitoring, Databases, Replication, Active Tasks, Account, Support, and Documentation. The main content area is titled 'Databases' and has a 'Database name' dropdown menu. Below this, there's a 'Your Databases' section with a table showing database details:

Name	Size	# of Docs	Partitioned	Actions
Showing 1-0 of 0 databases.				

At the bottom right, there's a pagination control showing 'Showing 1-0 of 0 databases.' and 'Databases per page' set to 20.

Python:

