

PREREQUISITES

Date	03 November 2022
Team ID	PNT2022TMID05128
Project Name	Project - Smart Waste Management system for Meteropolitan Cities

IBM Cloud Services:

The screenshot displays the IBM Cloud console interface. At the top, the header includes the IBM Cloud logo, a search bar, and navigation links for Catalog, Manage, and the user's account (ABARNA S's Account). Below the header, the main content area is titled "Internet of Things Platform-gp" and shows a status of "Active". A sidebar on the left contains navigation options: Manage, Plan, and Connections. The main content area features a large graphic of a central node connected to several peripheral nodes, representing an IoT network. To the right of this graphic, the text "Let's get started with IBM Watson IoT Platform" is displayed, followed by a description: "Securely connect, control, and manage devices. Quickly build IoT applications that analyze data from the physical world." Below this text are two buttons: "Launch" and "Docs". Further down, a section titled "Ready for the next level?" introduces the "IBM Watson IoT Platform Journey". This journey is represented by a horizontal timeline with three stages: "Lite", "Non-Production", and "Production". The "Lite" stage is currently selected, indicated by a checkmark in a circle. Each stage has a brief description of the service plan it represents.

IBM Cloud

Search resources and products...

Catalog Manage ABARNA S's Account

Resource list /

Internet of Things Platform-gp Active Add tags

Details Actions...

Manage

Plan

Connections

Let's get started with IBM Watson IoT Platform

Securely connect, control, and manage devices. Quickly build IoT applications that analyze data from the physical world.

Launch Docs

Ready for the next level?

IBM Watson IoT Platform Journey

☒ Lite

The Lite service plan provides a lightweight development environment to get you started with the connectivity capabilities of Watson IoT Platform.

☐ Non-Production

The Non-Production service plan is a full-featured, fully-integrated offering that enables you to explore Watson IoT Platform to see how the service can fit into your IoT environment.

☐ Production

The Production service is a fully managed SaaS offering that enables you to manage and analyze enterprise IoT data.

IBM Watson IoT Platform:

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.

Search by Device ID

Device Simulator ☐ ☐ ☐

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
123456789	Disconnected	Node_Mcu	Device	Nov 9, 2022 8:21 PM	

Items per page 50 | 1-1 of 1 item

1 of 1 page

Node - RED:

Node-RED

Flow 1

common

- inject
- debug
- complete
- catch
- status
- link in
- link call
- link out
- comment

function

- function
- switch
- change
- range
- template

Flow 1

Hello Node-RED!

jeesree

ultra sonic

weight

gps

msg.payload

Garbage Level

Garbage Weight

Bin Location

debug

```
"11.36637,76.889828" }
```

11/10/2022, 10:23:02 PM node: f22649a.0d0d98
iot-2typeNode_Mcuid/123456789evhoTSensorfntm/json : msg.payload : Object
{ Ultrasonic: 48, Weight: 58, GPS: "11.138168,76.888997" }

11/10/2022, 10:23:08 PM node: f22649a.0d0d98
iot-2typeNode_Mcuid/123456789evhoTSensorfntm/json : msg.payload : Object
{ Ultrasonic: 59, Weight: 42, GPS: "11.286234,76.891715" }

11/10/2022, 10:23:14 PM node: f22649a.0d0d98
iot-2typeNode_Mcuid/123456789evhoTSensorfntm/json : msg.payload : Object
{ Ultrasonic: 29, Weight: 79, GPS: "11.312577,76.818482" }

11/10/2022, 10:23:20 PM node: f22649a.0d0d98
iot-2typeNode_Mcuid/123456789evhoTSensorfntm/json : msg.payload : Object
{ Ultrasonic: 18, Weight: 66, GPS: "11.338039,76.846347" }

11/10/2022, 10:23:26 PM node: f22649a.0d0d98
iot-2typeNode_Mcuid/123456789evhoTSensorfntm/json : msg.payload : Object
{ Ultrasonic: 69, Weight: 85, GPS: "11.338478,76.808242" }

11/10/2022, 10:23:32 PM node: f22649a.0d0d98
iot-2typeNode_Mcuid/123456789evhoTSensorfntm/json : msg.payload : Object
{ Ultrasonic: 38, Weight: 34, GPS: "11.445093,76.895209" }

11/10/2022, 10:23:38 PM node: f22649a.0d0d98
iot-2typeNode_Mcuid/123456789evhoTSensorfntm/json : msg.payload : Object
{ Ultrasonic: 20, Weight: 53, GPS: "11.337416,76.896172" }

Cloudant Dashboard:

The screenshot displays the Cloudant Dashboard interface for a database named 'jeisree'. The browser's address bar shows the URL: `7c33e628-0a23-4098-8803-15beaa4488b3-bluemix.cloudant.com/dashboard.html#/database/jeisree/_all_docs`. The interface includes a left sidebar with navigation options: All Documents, Query, Permissions, Changes, and Design Documents. The main content area features a table view of documents, with tabs for Table, Metadata, and JSON. A 'Create Document' button is located in the top right corner of the table view. The table lists documents with columns for 'id', 'key', and 'value'. The 'value' column contains JSON objects with a 'rev' property. The bottom of the interface shows pagination information: 'Showing document 1 - 20. Documents per page: 20'.

id	key	value
0016e3f62b7c15e23c1e7b5a63c68a71	0016e3f62b7c15e23c1e7b5a63c68a71	{ "rev": "1-3f27eb78ffade21f2d84116eacd1..." }
0016e3f62b7c15e23c1e7b5a63f84f6b	0016e3f62b7c15e23c1e7b5a63f84f6b	{ "rev": "1-f669174f89d6e7f7cfceda2e7242..." }
0016e3f62b7c15e23c1e7b5a63f8501b	0016e3f62b7c15e23c1e7b5a63f8501b	{ "rev": "1-c214a24910f5ba9be4fa6f0afbb88..." }
00f75f16d0c686ffaeddab332774c22	00f75f16d0c686ffaeddab332774c22	{ "rev": "1-407845d905fee3532ca528bb413a..." }
01d723fe9a3f0206df8bd2cde202fa5e	01d723fe9a3f0206df8bd2cde202fa5e	{ "rev": "1-a13bebcf31537464f8aba358ddc0..." }
01d723fe9a3f0206df8bd2cde20465d3	01d723fe9a3f0206df8bd2cde20465d3	{ "rev": "1-21542749e80f2c5681317326aa9c..." }
01d723fe9a3f0206df8bd2cde2063060	01d723fe9a3f0206df8bd2cde2063060	{ "rev": "1-37bc4be40e428e7b7358fd399753..." }
01d723fe9a3f0206df8bd2cde263e291	01d723fe9a3f0206df8bd2cde263e291	{ "rev": "1-d717526ae9c4360caed0375e160..." }
0287daa99d661fedea6b791e9bda7e09	0287daa99d661fedea6b791e9bda7e09	{ "rev": "1-d789db870287944b5078d26e110..." }
0287daa99d661fedea6b791e9be096ef	0287daa99d661fedea6b791e9be096ef	{ "rev": "1-a2d7d66ba56a7a1cc5104e91a5db..." }
0287daa99d661fedea6b791e9be14164	0287daa99d661fedea6b791e9be14164	{ "rev": "1-7ac16f7ebe863339fb29f073179cf..." }
0287daa99d661fedea6b791e9be190e9	0287daa99d661fedea6b791e9be190e9	{ "rev": "1-965049720b984431e9ba166ecd3..." }
0287daa99d661fedea6b791e9be296ae	0287daa99d661fedea6b791e9be296ae	{ "rev": "1-be78a9697bc93f0e8f906311c01d..." }
0287daa99d661fedea6b791e9be31e46	0287daa99d661fedea6b791e9be31e46	{ "rev": "1-568b19d9165ae273fb341f7fb087..." }