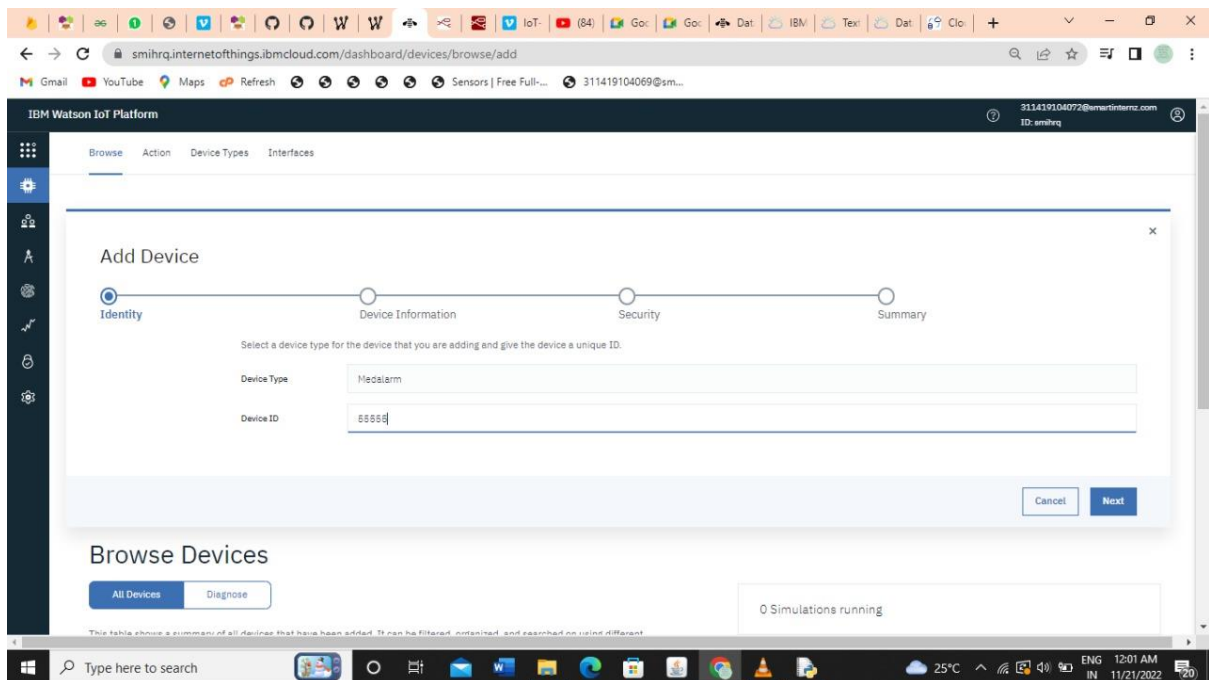


| | |
|---------------------|---|
| TEAM ID | PNT2022TMID27689 |
| PROJECT NAME | Personal Assistance for Seniors Who Are Self-Reliant |

AIM:

To create a device in the IOT Watson Platform, workflow for IOT scenario using Node RED.

1.IBM WATSON DEVICE CREATION:



IBM Watson IoT Platform

311419104072@smarthintemo.com
ID: smihq

Browse Action Device Types Interfaces

Add Device

Identity Device Information Security Summary

Select a device type for the device that you are adding and give the device a unique ID.

Device Type: Measalarm

Device ID: 55555

Cancel Next

Browse Devices

All Devices Diagnose

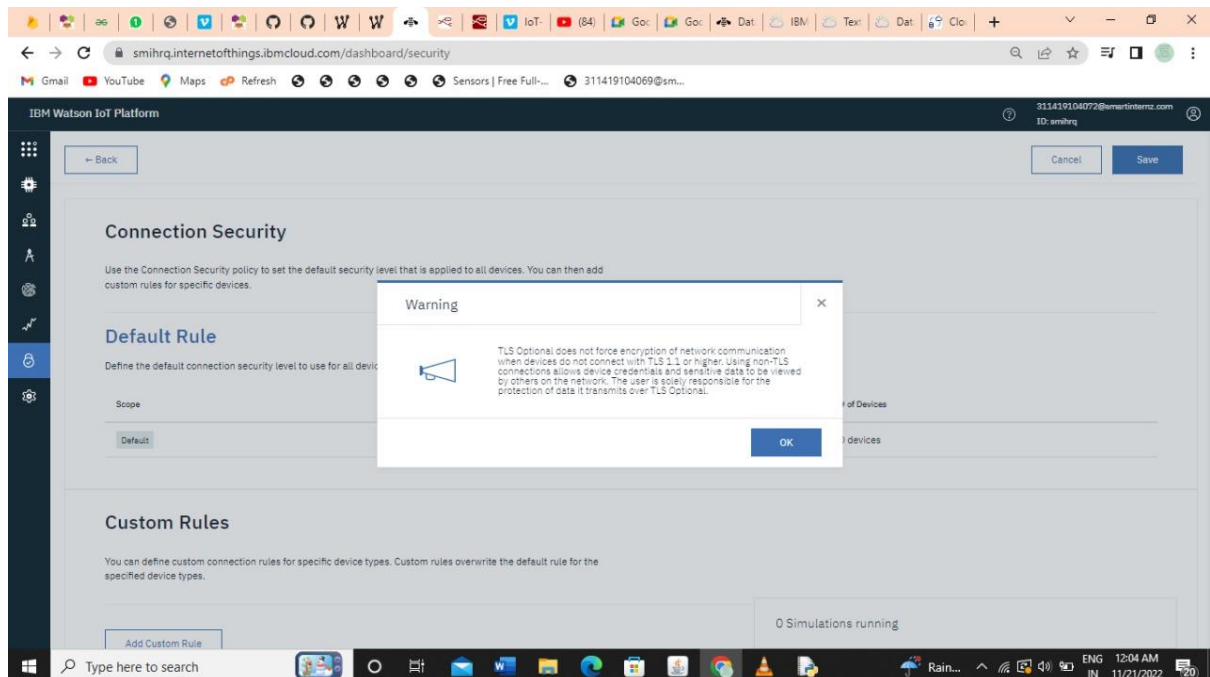
0 Simulations running

Type here to search

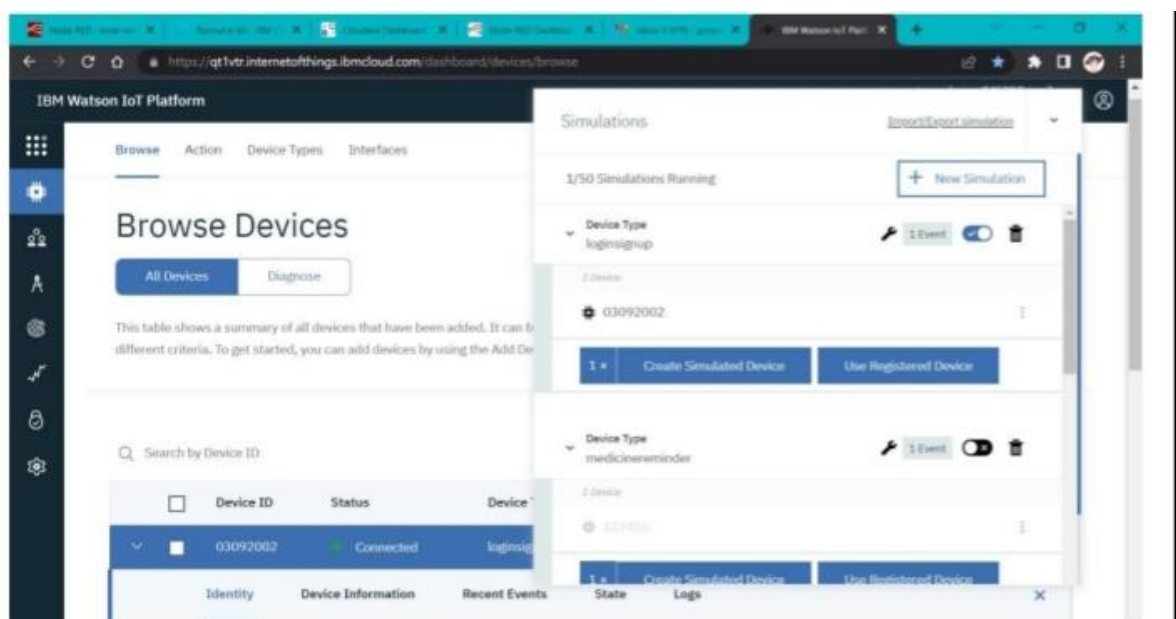
25°C

ENG 12:01 AM
IN 11/21/2022

CONFIGURE SECURITY POLICY:



SIMULATE IOT DEVICE:



2.NODE RED CREATION:

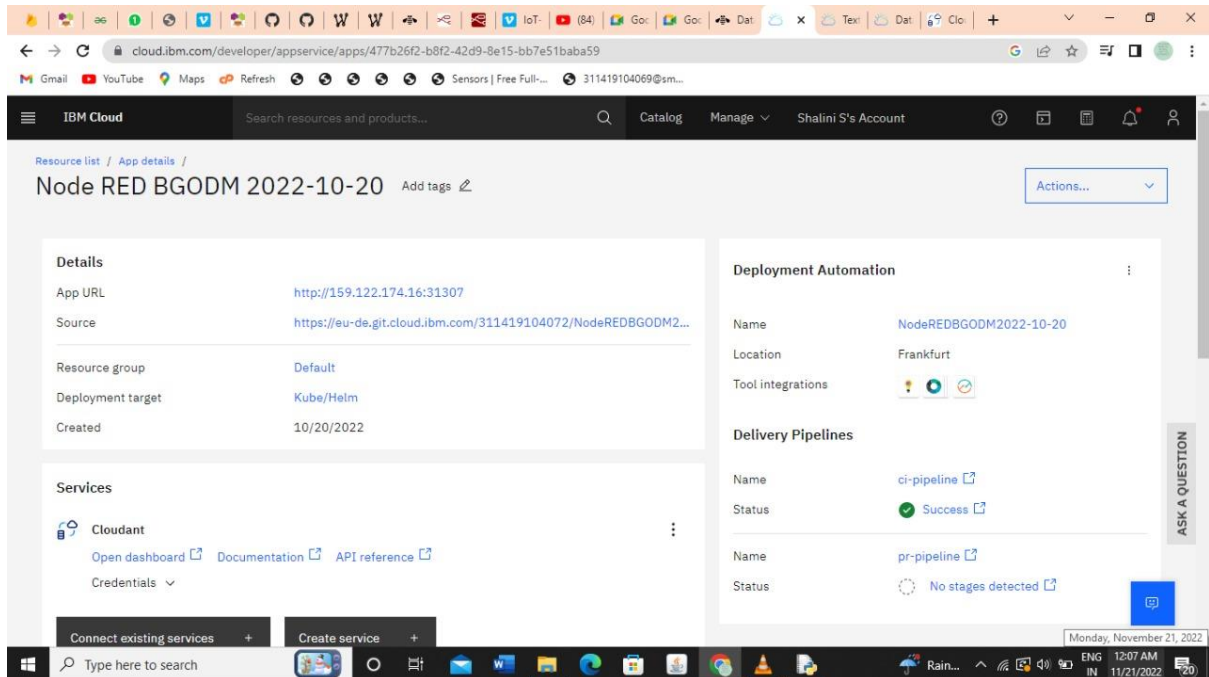
This screenshot shows the IBM Cloud 'Resource list' page. The page displays a table of resources categorized by groups. The 'Developer tools' group is expanded, showing 'Continuous Delivery' and 'Node RED BGODM 2022-10-20'. The 'Node RED BGODM 2022-10-20' resource is currently inactive (Status: -).

| Name | Group | Location | Product | Status | Tags |
|----------------------------|---------|-----------|----------------------|--------|------|
| Networking (0) | | | | | |
| Storage (1) | | | | | |
| Cloud Object Storage-mv | Default | Global | Cloud Object Storage | Active | - |
| AI / Machine Learning (1+) | | | | | |
| Analytics (0) | | | | | |
| Blockchain (0) | | | | | |
| Databases (1) | | | | | |
| Developer tools (3) | | | | | |
| Continuous Delivery | Default | Frankfurt | Continuous Delivery | Active | - |
| Node RED BGODM 2022-10-20 | Default | Global | Cloud Application | - | - |

This screenshot shows the IBM Cloud 'Resource list' page after creating a new NodeRED resource. The 'Developer tools' group is expanded, and a new resource, 'NodeREDBGODM2022-10-20', has been added to the list. It is currently inactive (Status: -).

| Name | Group | Location | Product | Status | Tags |
|-----------------------------------|---------|-----------|----------------------|--------|------|
| Storage (1) | | | | | |
| Cloud Object Storage-mv | Default | Global | Cloud Object Storage | Active | - |
| AI / Machine Learning (1) | | | | | |
| Analytics (0) | | | | | |
| Blockchain (0) | | | | | |
| Databases (1) | | | | | |
| node-red-bgodm-2022--cloudant-... | Default | Sydney | Cloudant | Active | - |
| Developer tools (3) | | | | | |
| Continuous Delivery | Default | Frankfurt | Continuous Delivery | Active | - |
| Node RED BGODM 2022-10-20 | Default | Global | Cloud Application | - | - |
| NodeREDBGODM2022-10-20 | Default | Frankfurt | Toolchain | - | - |

DEPLOYING NODE RED WEB APPLICATION:



The screenshot shows the IBM Cloud Developer console interface. The main heading is "Node RED BGODM 2022-10-20". Below this, there are two main sections: "Details" and "Deployment Automation".

Details:

- App URL: <http://159.122.174.16:31307>
- Source: <https://eu-de.git.cloud.ibm.com/311419104072/NodeREDBGODM2...>
- Resource group: Default
- Deployment target: Kube/Helm
- Created: 10/20/2022

Services:

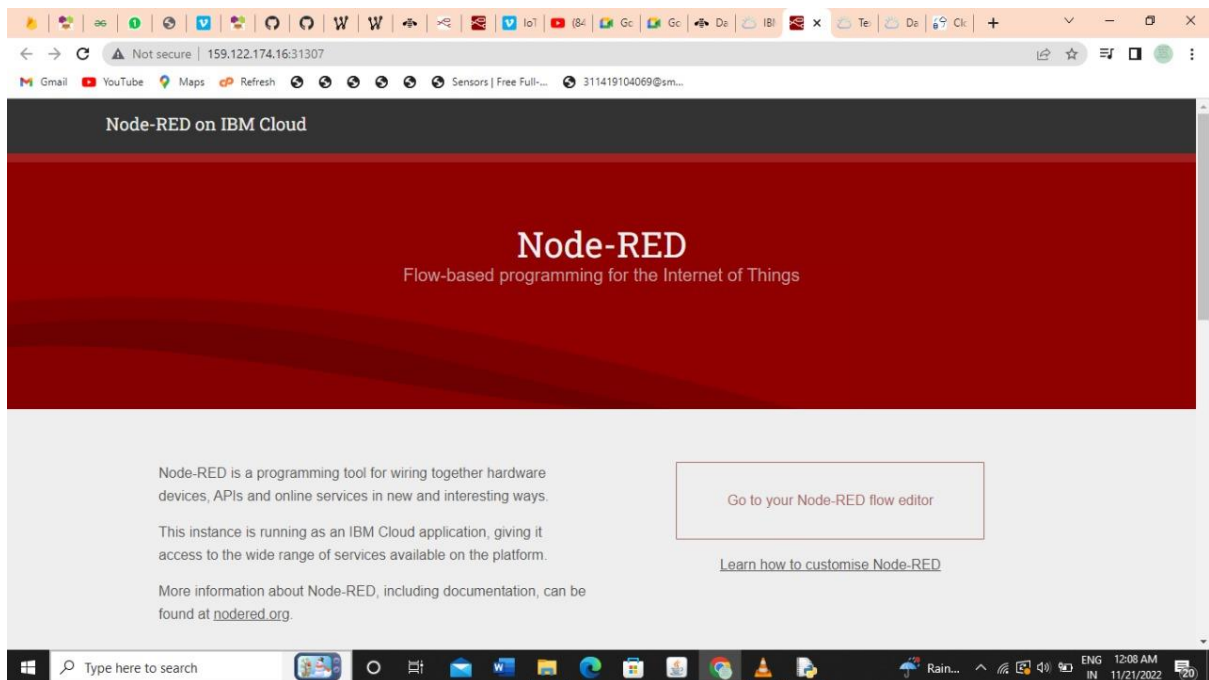
- Cloudant: Open dashboard, Documentation, API reference, Credentials

Deployment Automation:

- Name: NodeREDBGODM2022-10-20
- Location: Frankfurt
- Tool integrations: (Icons for various tools)
- Delivery Pipelines:
 - Name: ci-pipeline, Status: Success
 - Name: pr-pipeline, Status: No stages detected

The bottom of the screen shows a Windows taskbar with various application icons and a system clock indicating Monday, November 21, 2022, at 12:07 AM.

NODE RED FLOW EDITOR:



The screenshot shows the Node-RED flow editor interface. The main heading is "Node-RED on IBM Cloud". Below this, there is a large red banner with the text "Node-RED" and "Flow-based programming for the Internet of Things".

Below the banner, there is a section with text:

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

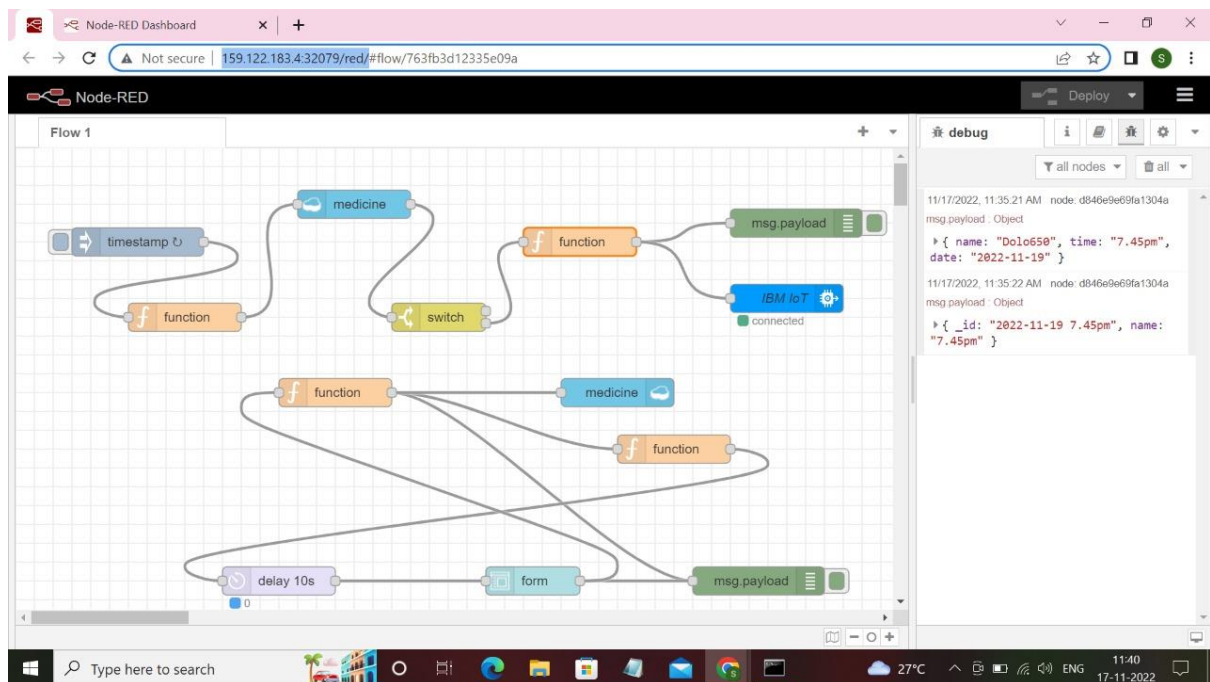
This instance is running as an IBM Cloud application, giving it access to the wide range of services available on the platform.

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

There is a button labeled "Go to your Node-RED flow editor" and a link labeled "Learn how to customise Node-RED".

The bottom of the screen shows a Windows taskbar with various application icons and a system clock indicating Monday, November 21, 2022, at 12:08 AM.

CREATION OF NODE FOR THE WORKFLOW:



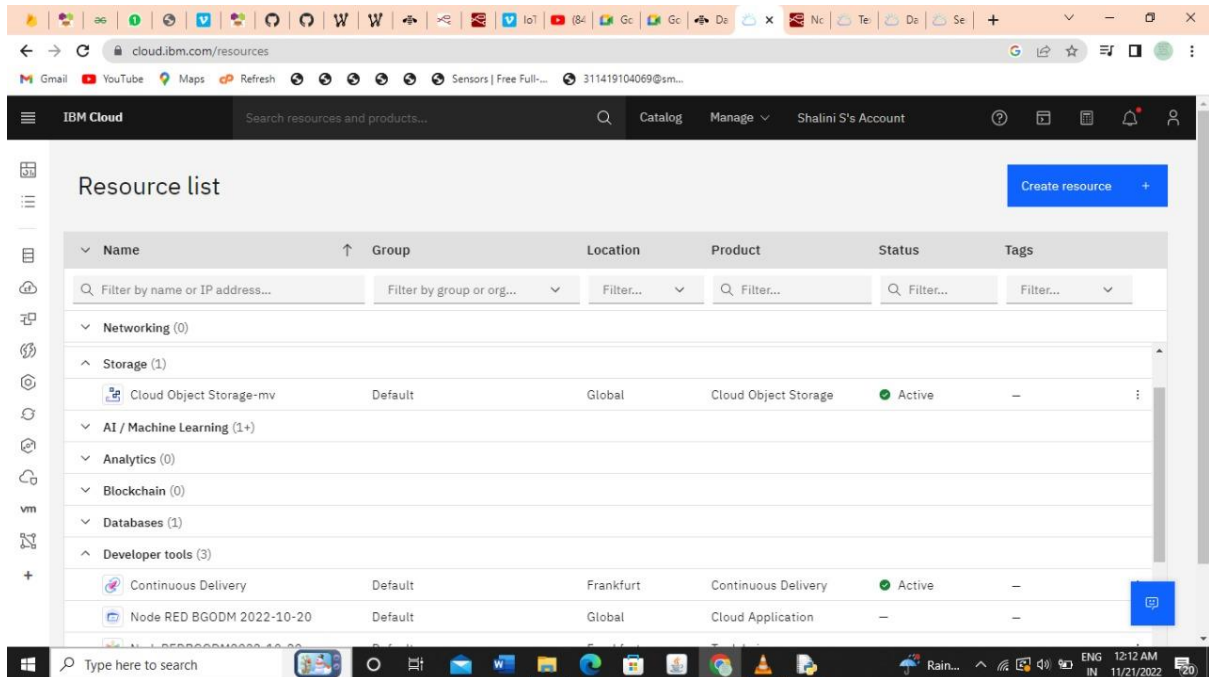
3.CLOUDANT DATABASE:

The screenshot shows the IBM Cloud console interface for a deployment named `node-red-bgodm-2022--cloudant-1666259809808`. The deployment is in an **Active** state. The **Overview** tab is selected, displaying the following details:

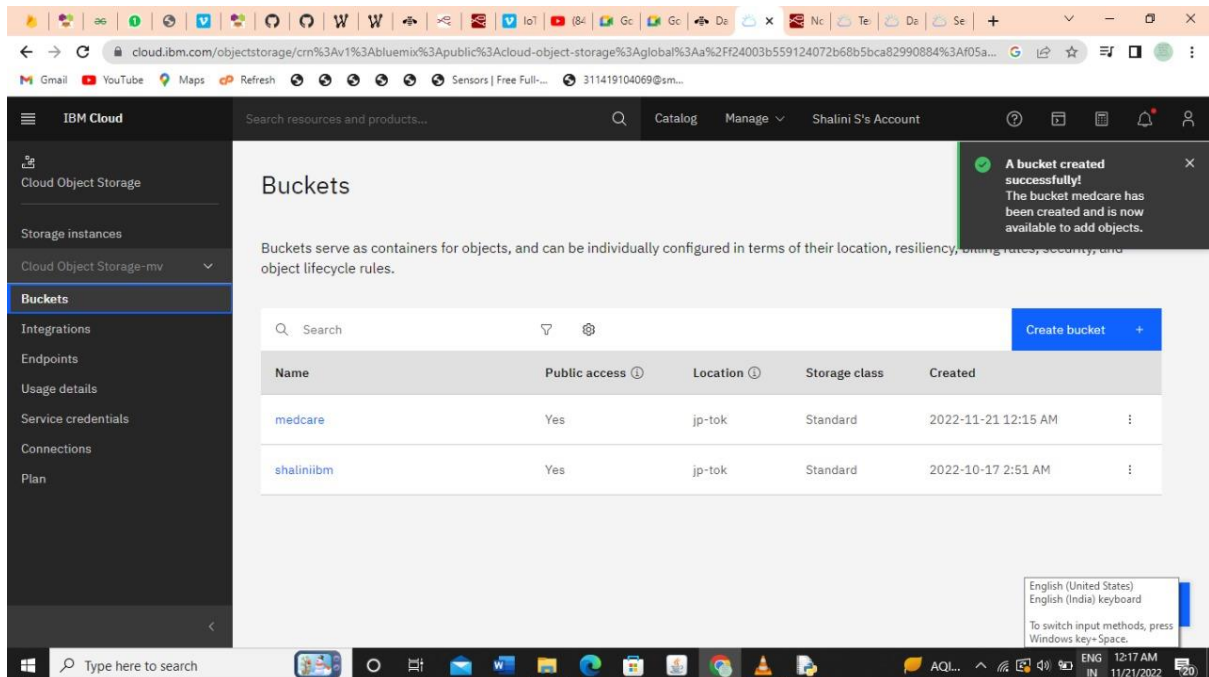
| Property | Value |
|-------------------------------|---|
| CRN | crn:v1:bluemix:public:cloudantnosqldb:au-syd:a/f24003b559124072b68b5bca82990884:a064ee8c-8fbf-46ab-a96f-f05b4fded3c: |
| Location | Sydney |
| External endpoint | https://de714b42-2b35-4d26-92c2-988e1e792cbd-bluemix.cloudant.com |
| External endpoint (preferred) | https://de714b42-2b35-4d26-92c2-988e1e792cbd-bluemix.cloudantnosqldb.appdomain.cloud |
| Authentication methods | IBM Cloud IAM and Cloudant credentials |

A **Migrate to IAM Only** button is visible next to the authentication methods. The **Launch Dashboard** button is also present. The bottom of the console shows the **Activity Tracker event tunes** section.

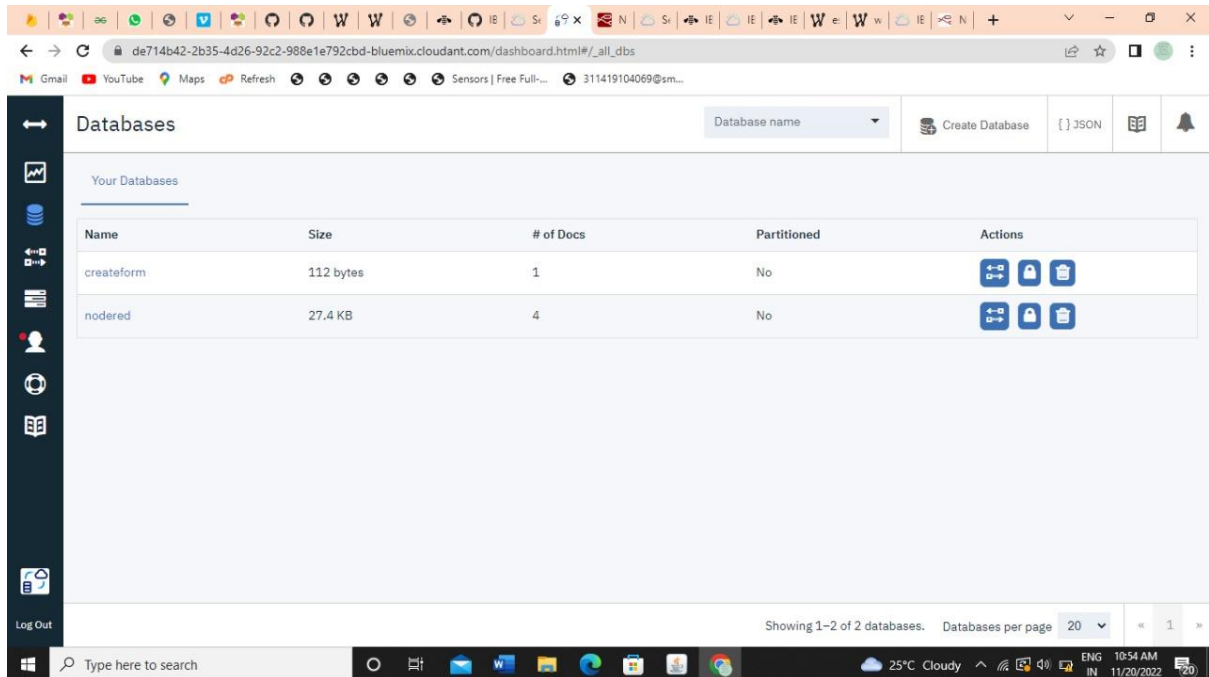
BUCKET CREATION:



- Here we created a bucket in cloud object storage for our project.

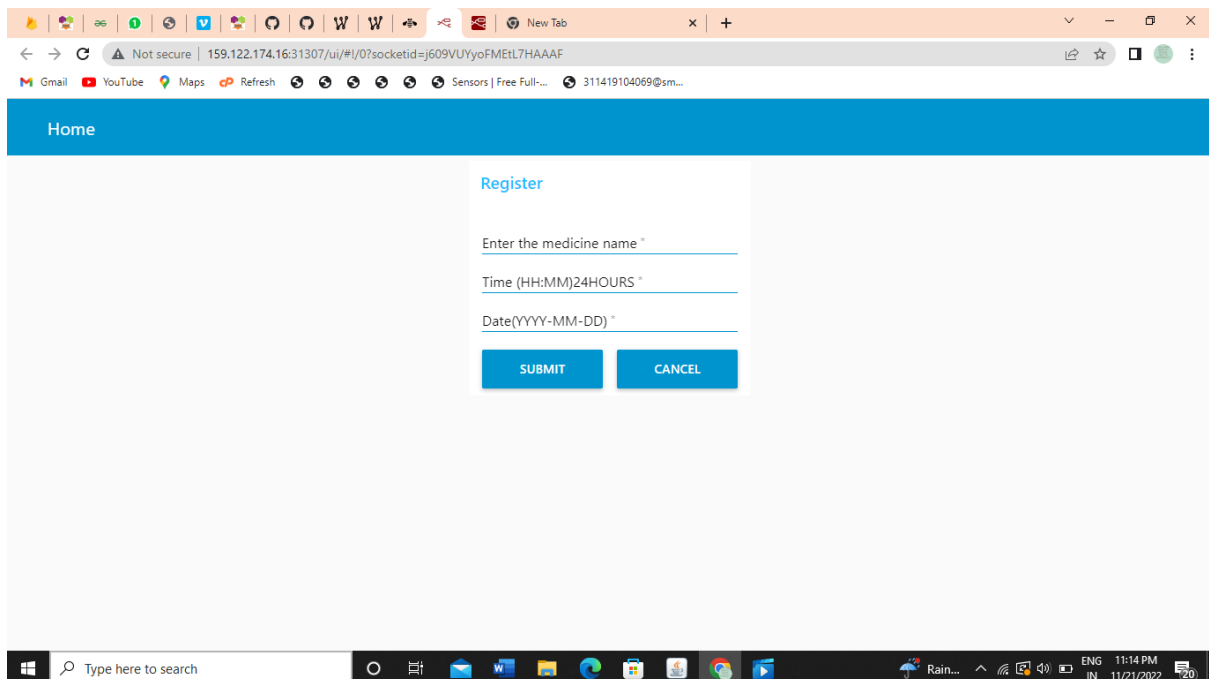


4.DATABASE CREATION:

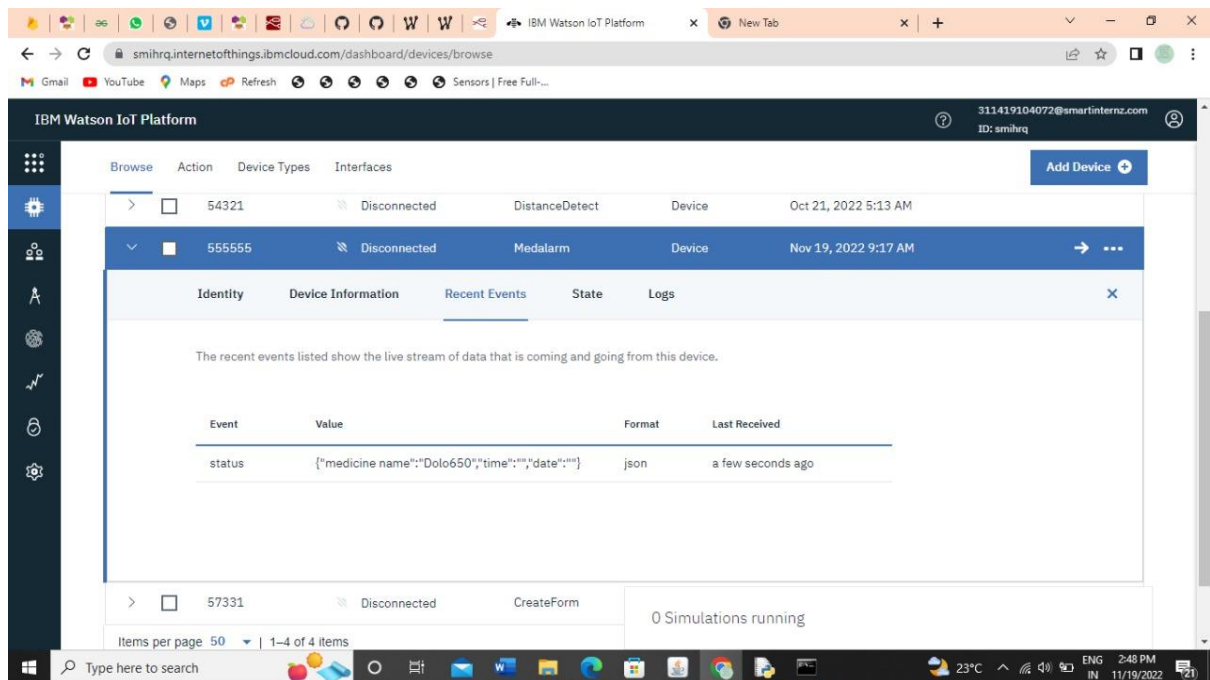


FINAL EXECUTION:

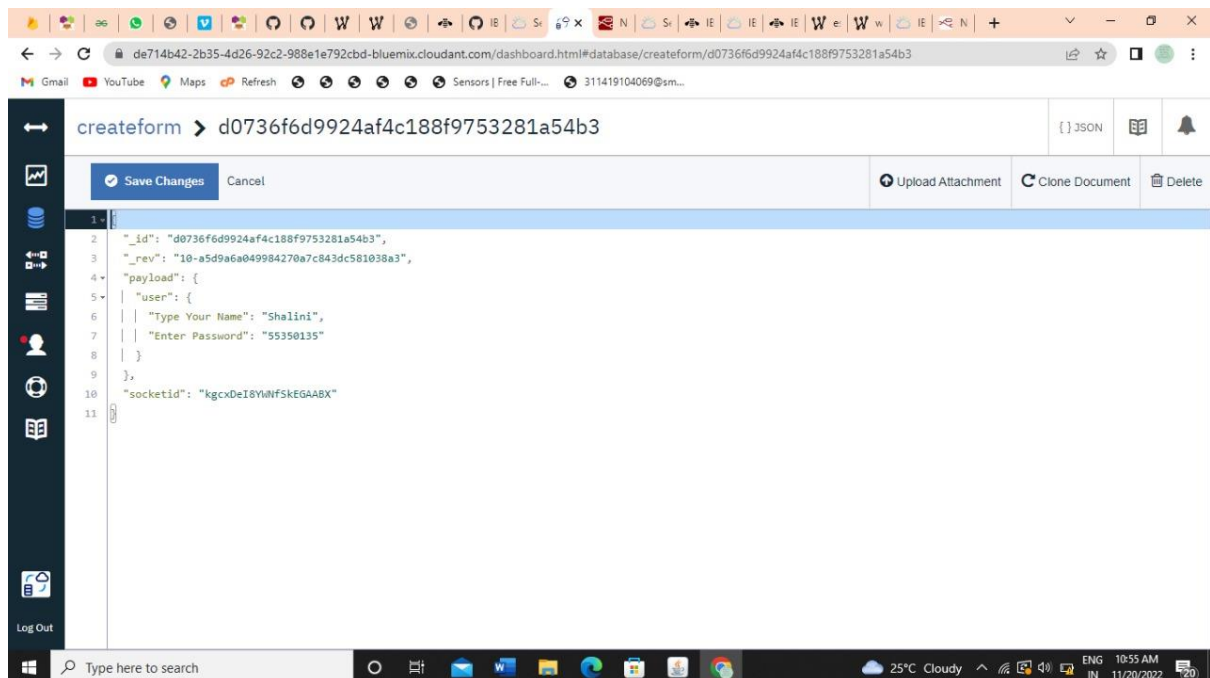
When the user enters the medicine details, it get stored in the database.



- The data are getting in the IOT device platform.



- Now, we can see the data getting stored in the database.



RESULT:

At the end of the sprint 2 we create a software for our project and tested successfully.