

SENDING DATA FROM RASPBERRY-PI TO IBM WATSON

TeamID: PNT2022TMID04047

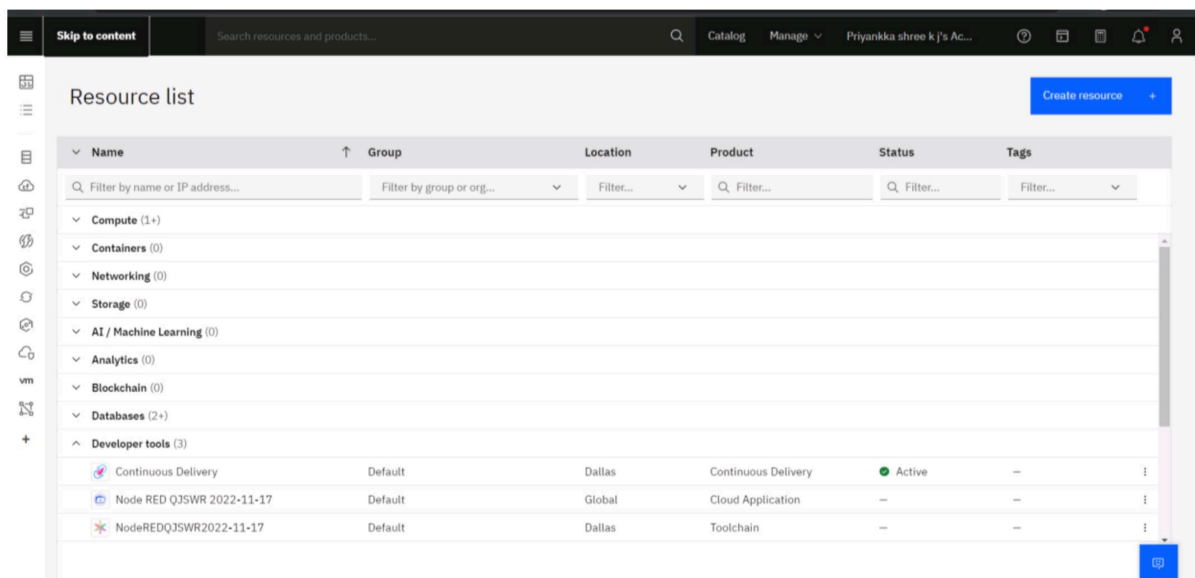
Team Members: Suvanthini S, Nishanthini P, Priyanka shree K J, Harini C K

Project: Gas Leakage Monitoring and Alerting System for Industries.

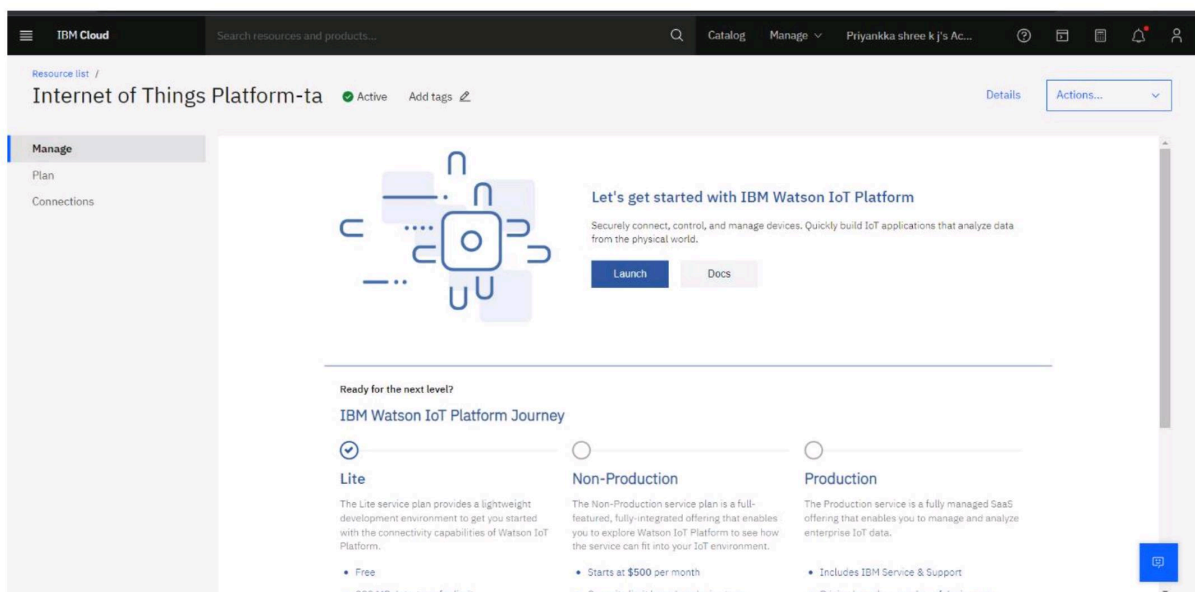
Steps to followed to send data from raspberry PI to IBM

Watson:

Step 1: GO to IOT in resource list.



Step 2: Click launch button.



Step 3: Go to Browse option and create a device. Enter detail in add device option

The screenshot shows the 'Add Device' dialog box in the IBM Watson IoT Platform. The dialog has a progress bar with four steps: Identity (selected), Device Information, Security, and Summary. Below the progress bar, there is a text prompt: 'Select a device type for the device that you are adding and give the device a unique ID.' There are two input fields: 'Device Type' with a dropdown menu showing 'Select or create a device type...' and 'Device ID' with a text input field showing 'Enter Device ID'. At the bottom right, there are 'Cancel' and 'Next' buttons.

Step 4: Click **Finish** button.

The screenshot shows the 'Device Drilldown - 12345' page in the IBM Watson IoT Platform. The page has a left sidebar with a 'Back' button and a list of menu items: Device Credentials, Connection Information, Recent Events, State, Device Information, Metadata, Diagnostics, Connection Logs, and Device Actions. The main content area is titled 'Device Drilldown - 12345' and contains a 'Connection Information' section. This section has a sub-header 'Basic connection information about this device.' and a table with the following data:

| | |
|--|-----------------------------|
| Device ID | 12345 |
| Device Type | NodeMCU |
| Date Added | Nov 18, 2022 4:07 PM |
| Added By | sec19ec135@sairamtap.edu.in |
| Connection Status | Connected |
| Connection Time: Nov 18, 2022 4:08 PM | |
| Client Address: 42.111.148.169 SecureToken | |

Below the connection information, there is a 'Recent Events' section with a sub-header 'The recent events listed show the live stream of data that is coming and going from this device.'

Step 5: Click stimulation running menu in below and Enter following code in JSON file:

```
{ "Hazardous Gas": random(0,100),  
  "Temperature": random(0,100),  
  "Pressure":random(0,100),  
  "Humidity": random(0,100) }
```

Device Drilldown - 12345

Recent Events

The recent events listed show the live stream of data that is coming and going from this device.

| Event | Value | Format | Last Received |
|--------|----------------------------------|--------|-------------------|
| status | {"temperature":84,"humidity":50} | json | a few seconds ago |
| status | {"temperature":19,"humidity":49} | json | a few seconds ago |
| status | {"temperature":13,"humidity":82} | json | a few seconds ago |
| status | {"temperature":94,"humidity":66} | json | a few seconds ago |
| status | {"temperature":39,"humidity":51} | json | a few seconds ago |

Step 6: Create boards and cards for virtualization of data:

Your boards

RISK AND SECURITY OVERVIEW
4 Cards
Owned by you

USAGE OVERVIEW
3 Cards
Owned by you

Boards shared with you

Step 7: Create boards

Create a new board

Provide a name and description for your new board.

Board name

Description

☒ Make this board my landing page.

☐ Favorite (this also adds this board to your navbar)

Step 8: Finally card generated different device.