

## Screenshots of Work And Output

Team ID	PNT2022TMID43411
Team Members	JOTHI KRISHNA T - 715519106018 KARTHIKEYAN A - 715519106020 NITHIYANANTH S - 715519106031 VIPIN L - 715519106059
Project Title	Gas Leakage Monitoring And Alerting System For Industries

## IBM Cloud Services

### IBM Cloud Services:

IBM is one of the large cloud computing providers on the planet. The “IBM Cloud” label is an umbrella category that encompasses its hardware, software and services for helping enterprises build private clouds. Protecting the company’s data is critical. Cloud storage with automated backup is scalable, flexible and provides peace of mind.

### IBM Cloud Accounts:

**VIPIN L – 715519106059**

The screenshot displays the IBM Cloud dashboard 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 (VIPIN L's Account). The main content area is titled 'Dashboard' and features a 'For you' section with several recommended resources:

- Build**: Explore IBM Cloud with this selection of easy starter tutorials and services.
- Get Started with Watson Studio**: Get started with using AI and Cloud Object Storage in 15 minutes. (Popular, 2 hr)
- Explore IBM Cloud Shell**: Try a command-driven approach for creating, developing, and deploying a web project. (Getting started, 2 min)
- Get Started with the CLI**: Install the IBM Cloud™ developer tools, which include the latest IBM Cloud CLI, verify the installation, and configure the environment. (Recommended, 10 min)
- Get started with Watson Discovery**: Get up to speed on Watson Discovery with step-by-step tutorials, deep-dive videos, and complete examples of working code. (Recommended, 2 hr)

On the right side, the user's profile (VIPIN L) is shown with options for Profile, Log in to CLI and API, Privacy, Change theme, and Log out. Below the 'For you' section, there are four tiles: News (with a link to 'All About IBM Storage's Price and Supply Guarantee'), Recent support cases, Planned maintenance, and IBM Cloud status.

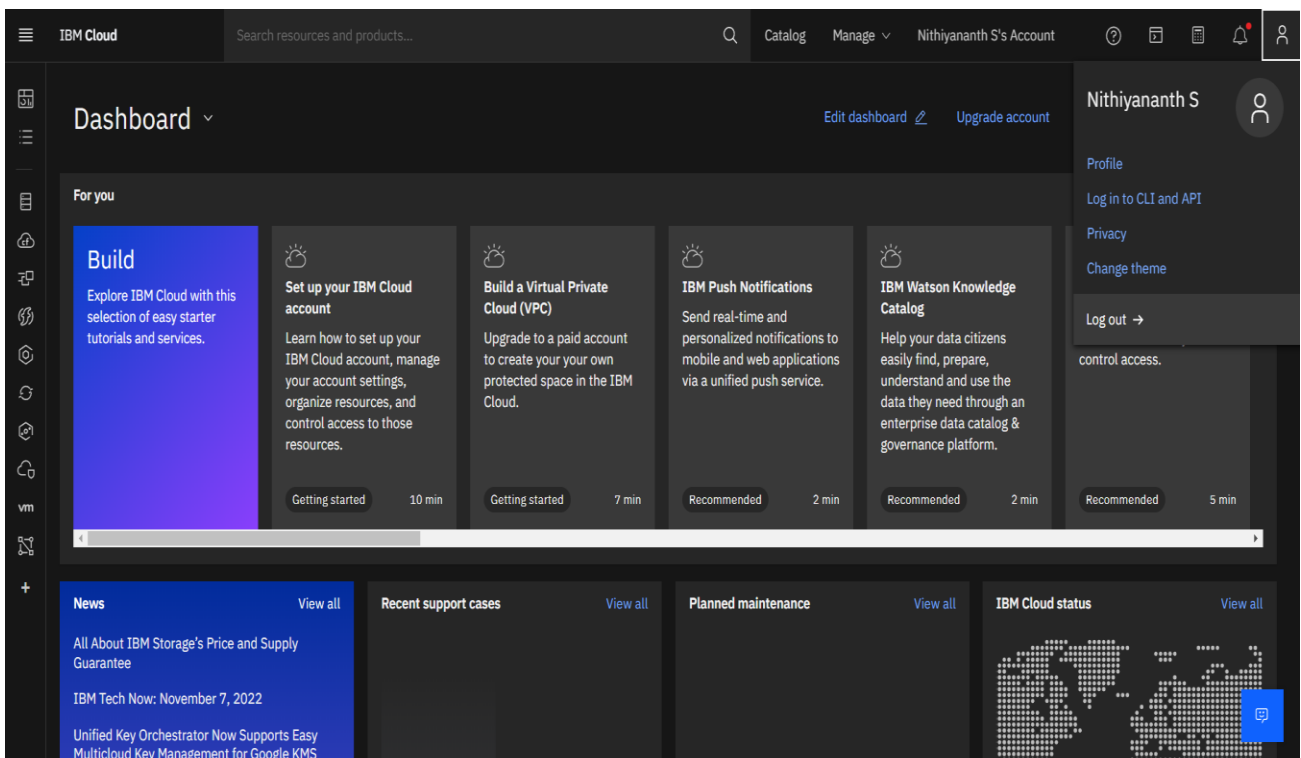
## JOTHI KRISHNA T – 715519106018

The screenshot shows the IBM Cloud Dashboard for user Jothi Krishna T. The interface is dark-themed. At the top, the user's name is displayed in the top right corner, along with links for 'Edit dashboard' and 'Upgrade account'. Below the header, the 'For you' section features a 'Build' tile on the left, followed by four tiles: 'Explore IBM Cloud Shell' (2 min), 'Create and deploy an application' (5 min), 'Visit the IBM Cloud catalog' (1 min), and 'Set up your IBM Cloud account' (10 min). Each tile includes a 'Getting started' button. To the right of these tiles is a user profile menu with options: 'Profile', 'Log in to CLI and API', 'Privacy', 'Change theme', and 'Log out'. Below the 'For you' section, there are four tiles: 'News' (with a 'View all' link), 'Recent support cases' (with a 'View all' link), 'Planned maintenance' (with a 'View all' link), and 'IBM Cloud status' (with a 'View all' link). The 'News' tile contains a headline about IBM Storage's Price and Supply Guarantee and a date 'IBM Tech Now: November 7, 2022'. The 'IBM Cloud status' tile shows a world map with a blue chat bubble icon in the bottom right corner.

## KARTHIKEYAN A – 715519106020

The screenshot shows the IBM Cloud Dashboard for user Karthikeyan A. The interface is dark-themed. At the top, the user's name is displayed in the top right corner, along with links for 'Edit dashboard' and 'Upgrade account'. Below the header, the 'For you' section features a 'Build' tile on the left, followed by four tiles: 'Create and deploy an application' (5 min), 'Set up your IBM Cloud account' (10 min), 'Get Started with Watson Studio' (2 hr), and 'Build a web app with Watson Speech to Text' (15 min). Each tile includes a 'Getting started' button. To the right of these tiles is a user profile menu with options: 'Profile', 'Log in to CLI and API', 'Privacy', 'Change theme', and 'Log out'. Below the 'For you' section, there are four tiles: 'News' (with a 'View all' link), 'Recent support cases' (with a 'View all' link), 'Planned maintenance' (with a 'View all' link), and 'IBM Cloud status' (with a 'View all' link). The 'News' tile contains a headline about IBM Storage's Price and Supply Guarantee and a date 'IBM Tech Now: November 7, 2022'. The 'IBM Cloud status' tile shows a world map with a blue chat bubble icon in the bottom right corner.

## NITHIYANANTH S – 715519106031



## SOFTWARE:

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>> print("IBM")
IBM
>>> print("Gas Leakage Monitoring And Alerting System For Industries")
Gas Leakage Monitoring And Alerting System For Industries
>>> |
```

# Libraries to integrate with IBM Cloud Services:

```
pip install wiotp-sdk
pip install requests
pip install paho.mqtt
pip install ibmiotf
pip install opencv-python
python -m pip install pip
pip install numpy
pip install --upgrade "ibm-watson>=6.1.0"
```

Microsoft Windows [Version 10.0.22621.674]

(c) Microsoft Corporation. All rights reserved.

C:\Users\karth>pip install wiotp-sdk

Requirement already satisfied: wiotp-sdk in c:\users\karth\appdata\local\programs\python\python37-32\lib\site-packages (0.11.0)

Requirement already satisfied: iso8601>=0.1.12 in c:\users\karth\appdata\local\programs\python\python37-32\lib\site-packages (from wiotp-sdk) (1.1.0)

Requirement already satisfied: pytz>=2018.9 in c:\users\karth\appdata\local\programs\python\python37-32\lib\site-packages (from wiotp-sdk) (2022.6)

Requirement already satisfied: pyyaml>=3.13 in c:\users\karth\appdata\local\programs\python\python37-32\lib\site-packages (from wiotp-sdk) (6.0)

Requirement already satisfied: paho-mqtt>=1.5.0 in c:\users\karth\appdata\local\programs\python\python37-32\lib\site-packages (from wiotp-sdk) (1.6.1)

Requirement already satisfied: requests>=2.21.0 in c:\users\karth\appdata\local\programs\python\python37-32\lib\site-packages (from wiotp-sdk) (2.28.1)

Requirement already satisfied: requests-toolbelt>=0.8.0 in c:\users\karth\appdata\local\programs\python\python37-32\lib\site-packages (from wiotp-sdk) (0.10.1)

Requirement already satisfied: certifi>=2017.4.17 in c:\users\karth\appdata\local\programs\python\python37-32\lib\site-packages (from requests>=2.21.0->wiotp-sdk) (2022.9.24)

Requirement already satisfied: idna<4,>=2.5 in c:\users\karth\appdata\local\programs\python\python37-32\lib\site-packages (from requests>=2.21.0->wiotp-sdk) (3.4)

Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\karth\appdata\local\programs\python\python37-32\lib\site-packages (from requests>=2.21.0->wiotp-sdk) (1.26.12)

Requirement already satisfied: charset-normalizer<3,>=2 in c:\users\karth\appdata\local\programs\python\python37-32\lib\site-packages (from requests>=2.21.0->wiotp-sdk) (2.1.1)

C:\Users\karth>

# Create The IBM Watson IoT Platform And A Device

VIPIN L - 715519106059

The screenshot shows the IBM Watson IoT Platform interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A sidebar on the left contains various icons for navigation. The main content area displays a table of devices. The first device, with ID 789456, is shown as 'Disconnected'. Below the table, a detailed view for this device is open, showing its identity and device information.

Device ID: 789456  
Device Type: ESP32  
Date Added: 3 Nov 2022 10:59  
Added By: vipin44@gmail.com  
Connection Status: Disconnected

0 Simulations running

The screenshot shows the IBM Watson IoT Platform interface with the same device (ID 789456) now 'Connected'. The 'Recent Events' tab is selected, displaying a live stream of data from the device. The events are listed in a table with columns for Event, Value, Format, and Last Received.

Event	Value	Format	Last Received
IoTSensor	{"Gas":10,"Temp":89,"Hum":59,"Fire":27}	json	a few seconds ago
IoTSensor	{"Gas":28,"Temp":8,"Hum":31,"Fire":77}	json	a few seconds ago
IoTSensor	{"Gas":45,"Temp":88,"Hum":15,"Fire":56}	json	a few seconds ago
IoTSensor	{"Gas":58,"Temp":31,"Hum":4,"Fire":24}	json	a few seconds ago
IoTSensor	{"Gas":17,"Temp":62,"Hum":49,"Fire":98}	json	a few seconds ago

0 Simulations running

# JOTHI KRISHNA T – 715519106018

IBM Watson IoT Platform

?

tjothikrishna@gmail.com  
ID: m0700j

m0700j  
ID: m0700j  
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[Sign Out](#)

Browse Action Device Types Interfaces

Q Search by Device ID

Device S

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
<input checked="" type="checkbox"/>	1234	Connected	Esp32	Device	3 Nov 2022 10:55	

Identity

Device Information

Recent Events

State

Logs

Device ID

Device Type

Date Added

Added By

Connection Status

1234

Esp32

3 Nov 2022 10:55

tjothikrishna@gmail.com

Connected  
Connection Time: 10 Nov 2022 18:19  
Client Address: 223.181.205.203 SecureToken

Items per page 50 | 1-1 of 1 item

1 of 1 page < 1 >

IBM Watson IoT Platform

?

tjothikrishna@gmail.com  
ID: m0700j

m0700j  
ID: m0700j  
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Browse Action Device Types Interfaces

Q Search by Device ID

Device S

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
<input checked="" type="checkbox"/>	1234	Connected	Esp32	Device	3 Nov 2022 10:55	

Identity

Device Information

Recent Events

State

Logs

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

Event	Value	Format	Last Received
IoTSensor	{"Gas":73,"Temp":45,"Hum":59,"Fire":36}	json	a few seconds ago
IoTSensor	{"Gas":58,"Temp":88,"Hum":55,"Fire":52}	json	a few seconds ago
IoTSensor	{"Gas":78,"Temp":6,"Hum":75,"Fire":67}	json	a few seconds ago
IoTSensor	{"Gas":87,"Temp":33,"Hum":87,"Fire":46}	json	a few seconds ago
IoTSensor	{"Gas":8,"Temp":19,"Hum":33,"Fire":36}	json	a few seconds ago

**KARTHIKEYAN A – 715519106020**

IBM Watson IoT Platform

Browse

Action

Device Types

Interfaces

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.

Q

Search by Device ID

Device ID

Status

Device Type

Class ID

Date Added

Descriptive Location

12345678

Connected

ESP32

Device

Nov 3, 2022 11:19 AM

Identity

Device Information

Recent Events

State

Logs

Device ID

Device Type

Date Added

Added By

Connection Status

12345678

ESP32

Nov 3, 2022 11:19 AM

karthikeyan31032001@gmail.com

Connected

Connection Time: Nov 10, 2022 11:42 AM

Client Address: 223.182.231.225 SecureToken

karthikeyan31032001@gmail.com

ID: gr1wxxv

gr1wxxv

ID: gr1wxxv

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0 Simulations running

IBM Watson IoT Platform

Browse

Action

Device Types

Interfaces

Device ID

Status

Device Type

Class ID

Date Added

Descriptive Location

12345678

Connected

ESP32

Device

Nov 3, 2022 11:19 AM

Identity

Device Information

Recent Events

State

Logs

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

Event	Value	Format	Last Received
IoTSensor	{"Gas":7,"Temp":26,"Hum":44,"Fire":9}	json	a few seconds ago
IoTSensor	{"Gas":19,"Temp":30,"Hum":97,"Fire":69}	json	a few seconds ago
IoTSensor	{"Gas":52,"Temp":55,"Hum":24,"Fire":82}	json	a few seconds ago
IoTSensor	{"Gas":15,"Temp":38,"Hum":3,"Fire":17}	json	a few seconds ago
IoTSensor	{"Gas":38,"Temp":48,"Hum":23,"Fire":55}	json	a few seconds ago

karthikeyan31032001@gmail.com

ID: griwxxv

griwxxv

ID: griwxxv

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Service Status

Terms

Privacy

Support

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Sign Out

0 Simulations running

## NITHIYANANTH S – 715519106031

IBM Watson IoT Platform

93elj1  
ID: 93elj1  
Bluemix Free

Service Status  
Terms  
Privacy  
Support  
Blog  
Sign Out

Browse Action Device Types Interfaces

Search by Device ID

Device S

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
123456	Connected	ESP32	Device	2 Nov 2022 20:09	

Identity

Device Information

Recent Events

State

Logs

Device ID

Device Type

Date Added

Added By

Connection Status

123456

ESP32

2 Nov 2022 20:09

nithiyananth@gmail.com

Connected  
Connection Time: 10 Nov 2022 18:42  
Client Address: 223.181.205.203 SecureToken

Items per page 50 | 1--1 of 1 item

1 of 1 page

IBM Watson IoT Platform

93elj1  
ID: 93elj1  
Bluemix Free

Service Status  
Terms  
Privacy  
Support  
Blog  
Sign Out

Browse Action Device Types Interfaces

Search by Device ID

Device S

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
123456	Connected	ESP32	Device	2 Nov 2022 20:09	

Identity

Device Information

Recent Events

State

Logs

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

Event	Value	Format	Last Received
IoTSensor	{"Gas":39,"Temp":74,"Hum":72,"Fire":85}	json	a few seconds ago
IoTSensor	{"Gas":100,"Temp":10,"Hum":71,"Fire":89}	json	a few seconds ago
IoTSensor	{"Gas":21,"Temp":64,"Hum":80,"Fire":91}	json	a few seconds ago
IoTSensor	{"Gas":91,"Temp":90,"Hum":61,"Fire":35}	json	a few seconds ago
IoTSensor	{"Gas":53,"Temp":37,"Hum":19,"Fire":79}	json	a few seconds ago



# Create Node-RED Service

VIPIN L - 715519106059

The screenshot shows the IBM Cloud console for a resource named "Node RED SROBC 2022-11-07". The interface is divided into several sections:

- Details:** App URL is <https://node-red-srobc-2022-11-07.eu-gb.mybluemix.net>, Source is <https://eu-gb.git.cloud.ibm.com/vipinvn44/NodeREDSROBC20...>, Resource group is Default, Deployment target is Node RED SROBC 2022-11-07, and Created is 07/11/2022.
- Services:** A card for "Cloudant" is visible with links for "Open dashboard", "Documentation", and "API reference". There are buttons for "Connect existing services" and "Create service".
- Deployment Automation:** Shows the Name "NodeREDSROBC2022-11-07", Location "London", and Tool integrations. Under "Delivery Pipelines", it lists "ci-pipeline" with a status of "Success" and "pr-pipeline" with a status of "No stages detected".
- Getting Started:** A sidebar on the right with a "Getting Started" section containing a "Log out" button and a "Configuring your app" section with a list of steps.

JOTHI KRISHNA T – 715519106018

The screenshot shows the IBM Cloud console for a resource named "Node RED RWGZW 2022-11-08". The interface is divided into several sections:

- Details:** App URL is <https://node-red-rwgzw-2022-11-08.eu-gb.mybluemix.net>, Source is <https://eu-gb.git.cloud.ibm.com/jothikrishna/NodeREDRWGZ...>, Resource group is Default, Deployment target is Node RED RWGZW 2022-11-08, and Created is 08/11/2022.
- Services:** A card for "Cloudant" is visible with links for "Open dashboard", "Documentation", and "API reference". There are buttons for "Connect existing services" and "Create service".
- Deployment Automation:** Shows the Name "NodeREDRWGZW2022-11-08", Location "London", and Tool integrations. Under "Delivery Pipelines", it lists "pr-pipeline" with a status of "No stages detected" and "ci-pipeline" with a status of "Success".
- Getting Started:** A sidebar on the right with a "Getting Started" section containing a "Log out" button and a "Configuring your app" section with a list of steps.

## KARTHIKEYAN A – 715519106020

The screenshot shows the IBM Cloud dashboard for user KARTHIKEYAN A. The main heading is "Node RED UTDJB 2022-11-05". The "Details" section lists the App URL, Source, Resource group (Default), Deployment target (Node RED UTDJB 2022-11-05), and Created date (11/5/2022). The "Services" section shows the Cloudant service with links to Open dashboard, Documentation, and API reference. The "Deployment Automation" section shows the Name (NodeREDUTDJB2022-11-05), Location (London), and Tool integrations. The "Delivery Pipelines" section shows two pipelines: pr-pipeline (No stages detected) and ci-pipeline (Success). The "Getting" section provides instructions for connecting services and deploying the app.

**Details**

App URL: <https://node-red-utdjb-2022-11-05.eu-gb.mybluemix.net>

Source: <https://eu-gb.git.cloud.ibm.com/karthikeyan31032001/NodeR...>

Resource group: Default

Deployment target: Node RED UTDJB 2022-11-05

Created: 11/5/2022

**Services**

Cloudant

[Open dashboard](#) [Documentation](#) [API reference](#)

Credentials

[Connect existing services](#) [Create service](#)

**Deployment Automation**

Name: NodeREDUTDJB2022-11-05

Location: London

Tool integrations

**Delivery Pipelines**

Name: pr-pipeline

Status: No stages detected

Name: ci-pipeline

Status: Success

**Getting**

Configuring your app

To connect service to your app:

1. Use the **Services** card to connect a service to your app. Select an existing service instance, or create a new one. [Learn more](#)
2. If you want to view the code before your app is deployed, click **Download code** to obtain the .zip file.
3. Click **Deploy your app** in the **Deployment Automation** card to select the deployment target and configure the Continuous Delivery service. The deployment begins automatically.
4. After the deployment begins, you can view the status of the deployment, modify your app, view your repo, or view the app's URL.
5. If you make any changes to your app, be

## NITHIYANANTH S – 715519106031

The screenshot shows the IBM Cloud dashboard for user NITHIYANANTH S. The main heading is "Node RED QASAF 2022-11-08". The "Details" section lists the App URL, Source, Resource group (Default), Deployment target (Node RED QASAF 2022-11-08), and Created date (08/11/2022). The "Services" section shows the Cloudant service with links to Open dashboard, Documentation, and API reference. The "Deployment Automation" section shows the Name (NodeREDQASAF2022-11-08), Location (London), and Tool integrations. The "Delivery Pipelines" section shows two pipelines: ci-pipeline (Success) and pr-pipeline (No stages detected). The "Getting" section provides instructions for connecting services and deploying the app.

**Details**

App URL: <https://node-red-qasaf-2022-11-08.eu-gb.mybluemix.net>

Source: <https://eu-gb.git.cloud.ibm.com/nithiyananth/NodeREDQASA...>

Resource group: Default

Deployment target: Node RED QASAF 2022-11-08

Created: 08/11/2022

**Services**

Cloudant

[Open dashboard](#) [Documentation](#) [API reference](#)

Credentials

[Connect existing services](#) [Create service](#)

**Deployment Automation**

Name: NodeREDQASAF2022-11-08

Location: London

Tool integrations

**Delivery Pipelines**

Name: ci-pipeline

Status: Success

Name: pr-pipeline

Status: No stages detected

**Getting**

Configuring your app

To connect service to your app:

1. Use the **Services** card to connect a service to your app. Select an existing service instance, or create a new one. [Learn more](#)
2. If you want to view the code before your app is deployed, click **Download code** to obtain the .zip file.
3. Click **Deploy your app** in the **Deployment Automation** card to select the deployment target and configure the Continuous Delivery service. The deployment begins automatically.
4. After the deployment begins, you can view the status of the deployment, modify your app, view your repo, or view the app's URL.

The output obtained from the python code is:

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
{'Gas': 80, 'Temp': 89, 'Hum': 30, 'Fire': 44}
published Gas 80
published Temp 89
published Hum 30
published Fire 44
{'Gas': 54, 'Temp': 82, 'Hum': 89, 'Fire': 60}
published Gas 54
published Temp 82
published Hum 89
published Fire 60
{'Gas': 19, 'Temp': 50, 'Hum': 96, 'Fire': 8}
published Gas 19
published Temp 50
published Hum 96
published Fire 8
{'Gas': 47, 'Temp': 76, 'Hum': 14, 'Fire': 77}
published Gas 47
published Temp 76
published Hum 14
published Fire 77
{'Gas': 86, 'Temp': 89, 'Hum': 55, 'Fire': 63}
published Gas 86
published Temp 89
published Hum 55
published Fire 63
{'Gas': 68, 'Temp': 46, 'Hum': 54, 'Fire': 29}
published Gas 68
published Temp 46
published Hum 54
published Fire 29
```

The data has been published to the IBM cloud. Thus in the python script, the values for the gas, temperature, humidity and fire have been generated and published to IBM cloud platform.

This is achieved by importing the required libraries in the python script and also specifying the organization, deviceType, deviceid, authMethod and authToken to integrate with the specific cloud account, so that the data will be published to IBM cloud platform.

**VIPIN L - 715519106059**

IBM Watson IoT Platform

?

vipinn44@gmail.com

ID: Ora9lv

Browse

Action

Device Types

Interfaces

Q

Search by Device ID

Device ID

Status

Device Type

Class ID

Date Added

Descriptive Location

789456

Connected

ESP32

Device

3 Nov 2022 10:59

Identity

Device Information

Recent Events

State

Logs

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

Event

Value

Format

Last Received

IoTSensor

{"Gas":10,"Temp":89,"Hum":59,"Fire":27}

json

a few seconds ago

IoTSensor

{"Gas":28,"Temp":8,"Hum":31,"Fire":77}

json

a few seconds ago

IoTSensor

{"Gas":45,"Temp":88,"Hum":15,"Fire":56}

json

a few seconds ago

IoTSensor

{"Gas":58,"Temp":31,"Hum":4,"Fire":24}

json

a few seconds ago

IoTSensor

{"Gas":17,"Temp":62,"Hum":49,"Fire":98}

json

a few seconds ago

0 Simulations running

?

Ora9lv

ID: Ora9lv

Bluemix Free

Service Status

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## JOTHI KRISHNA T – 715519106018

IBM Watson IoT Platform

Search by Device ID

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
1234	Connected	Esp32	Device	3 Nov 2022 10:55	

Identity Device Information **Recent Events** State Logs

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

Event	Value	Format	Last Received
IoTSensor	{"Gas":73,"Temp":45,"Hum":59,"Fire":36}	json	a few seconds ago
IoTSensor	{"Gas":58,"Temp":88,"Hum":55,"Fire":52}	json	a few seconds ago
IoTSensor	{"Gas":78,"Temp":6,"Hum":75,"Fire":67}	json	a few seconds ago
IoTSensor	{"Gas":87,"Temp":33,"Hum":87,"Fire":46}	json	a few seconds ago
IoTSensor	{"Gas":8,"Temp":19,"Hum":33,"Fire":36}	json	a few seconds ago

Service Status Terms Privacy Support Blog Sign Out

## KARTHIKEYAN A – 715519106020

IBM Watson IoT Platform

Search

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
12345678	Connected	ESP32	Device	Nov 3, 2022 11:19 AM	

Identity Device Information **Recent Events** State Logs

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

Event	Value	Format	Last Received
IoTSensor	{"Gas":7,"Temp":26,"Hum":44,"Fire":9}	json	a few seconds ago
IoTSensor	{"Gas":19,"Temp":30,"Hum":97,"Fire":69}	json	a few seconds ago
IoTSensor	{"Gas":52,"Temp":55,"Hum":24,"Fire":82}	json	a few seconds ago
IoTSensor	{"Gas":15,"Temp":38,"Hum":3,"Fire":17}	json	a few seconds ago
IoTSensor	{"Gas":38,"Temp":48,"Hum":23,"Fire":55}	json	a few seconds ago

Service Status Terms Privacy Support Blog Sign Out

0 Simulations running

**NITHIYANANTH S – 715519106031**

The screenshot displays the IBM Watson IoT Platform user interface. At the top, there's a navigation bar with options like "Browse", "Action", "Device Types", and "Interfaces". Below this is a search bar labeled "Search by Device ID". The main content area shows details for a specific device with ID "123456", which is currently "Connected". It lists the device type as "ESP32" and its class as "Device". A sidebar on the right contains links for "Service Status", "Terms", "Privacy", "Support", "Blog", and "Sign Out".

	Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
	123456	Connected	ESP32	Device	2 Nov 2022 20:09	

Identity	Device Information	Recent Events	State	Logs
The recent events listed show the live stream of data that is coming and going from this device.				

Event	Value	Format	Last Received
IoTSensor	{"Gas":39,"Temp":74,"Hum":72,"Fire":85}	json	a few seconds ago
IoTSensor	{"Gas":100,"Temp":10,"Hum":71,"Fire":89}	json	a few seconds ago
IoTSensor	{"Gas":21,"Temp":64,"Hum":80,"Fire":91}	json	a few seconds ago
IoTSensor	{"Gas":91,"Temp":90,"Hum":61,"Fire":35}	json	a few seconds ago
IoTSensor	{"Gas":53,"Temp":37,"Hum":19,"Fire":79}	json	a few seconds ago

# Dashboard Nodes For Creating UI And Develop The Web Application Using Node-RED

VIPIN L - 715519106059

The screenshot displays the IBM Cloud dashboard interface. At the top, there's a navigation bar with the IBM Cloud logo, a search bar, and user information for 'VIPIN L's Account'. Below the navigation bar, the breadcrumb trail shows 'Resource list / App details /'. The main heading is 'Node RED SROBC 2022-11-07' with an 'Add tags' link. The dashboard is divided into several sections: 'Details' on the left, 'Deployment Automation' in the middle, 'Delivery Pipelines' on the right, and 'Services' at the bottom left. The 'Details' section lists 'App URL', 'Source', 'Resource group', 'Deployment target', and 'Created' date. The 'Deployment Automation' section shows 'Name', 'Location', and 'Tool integrations'. The 'Delivery Pipelines' section lists 'Name' and 'Status' for two pipelines: 'ci-pipeline' (Success) and 'pr-pipeline' (No stages detected). The 'Services' section shows 'Cloudant' with links to 'Open dashboard', 'Documentation', and 'API reference', along with a 'Credentials' dropdown and buttons to 'Connect existing services' and 'Create service'. On the right side, there's a user profile dropdown for 'VIPIN L' with options like 'Profile', 'Log in to CLI and API', 'Privacy', 'Change theme', and 'Log out'. Below this, there's a 'Getting started' section with a 'Log out' button and a 'Configuring your app' section with a 'Log out' button. A vertical 'ASK A QUESTION' button is on the far right. At the bottom right, there's a blue 'ASK A QUESTION' button.

IBM Cloud Search resources and products... Catalog Manage VIPIN L's Account

Resource list / App details /

## Node RED SROBC 2022-11-07 [Add tags](#)

**Details**

App URL	<a href="https://node-red-srobc-2022-11-07.eu-gb.mybluemix.net">https://node-red-srobc-2022-11-07.eu-gb.mybluemix.net</a>
Source	<a href="https://eu-gb.git.cloud.ibm.com/vipinn44/NodeREDSROBC20...">https://eu-gb.git.cloud.ibm.com/vipinn44/NodeREDSROBC20...</a>
Resource group	Default
Deployment target	Node RED SROBC 2022-11-07
Created	07/11/2022

**Services**

**Cloudant**

[Open dashboard](#) [Documentation](#) [API reference](#)

Credentials ▾

[Connect existing services](#) [Create service](#)

**Deployment Automation**

Name	NodeREDSROBC2022-11-07
Location	London
Tool integrations	

**Delivery Pipelines**

Name	ci-pipeline
Status	Success
Name	pr-pipeline
Status	No stages detected

**Getting started**

To connect service to your app:

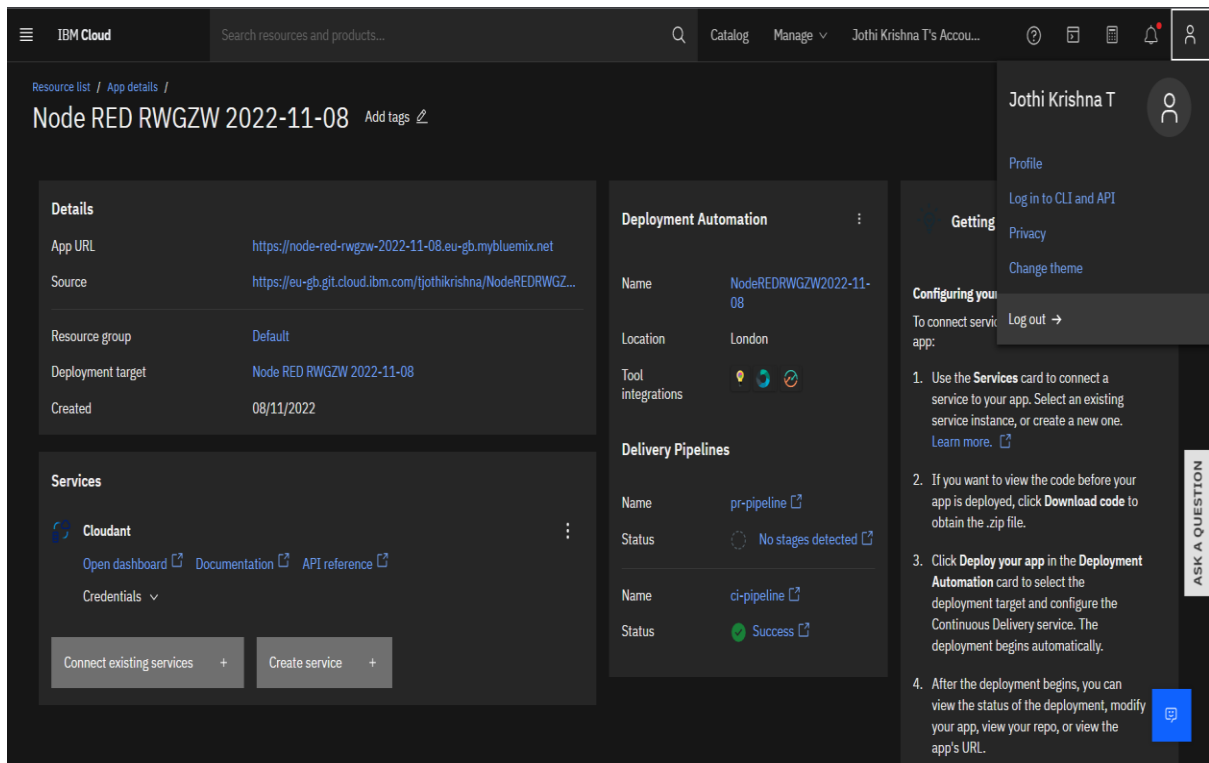
**Configuring your app**

Log out →

1. Use the **Services** card to connect a service to your app. Select an existing service instance, or create a new one. [Learn more](#)
2. If you want to view the code before your app is deployed, click **Download code** to obtain the .zip file.
3. Click **Deploy your app** in the **Deployment Automation** card to select the deployment target and configure the Continuous Delivery service. The deployment begins automatically.
4. After the deployment begins, you can view the status of the deployment, modify your app, view your repo, or view the app's URL.

ASK A QUESTION

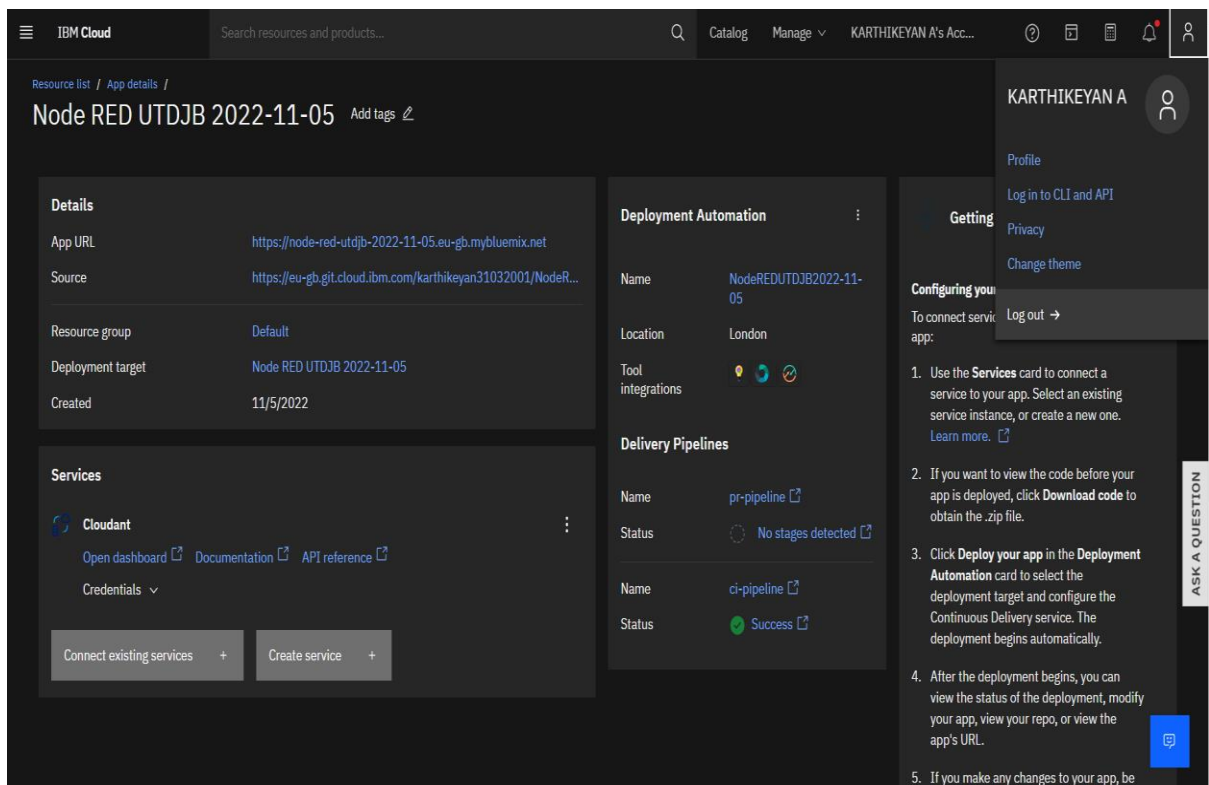
## JOTHI KRISHNA T – 715519106018



The screenshot shows the IBM Cloud dashboard for the application "Node RED RWGZW 2022-11-08". The interface is divided into several sections:

- Details:** Displays the App URL (<https://node-red-rwgzw-2022-11-08.eu-gb.mybluemix.net>), Source (<https://eu-gb.git.cloud.ibm.com/jothikrishna/NodeREDRWGZ...>), Resource group (Default), Deployment target (Node RED RWGZW 2022-11-08), and Created date (08/11/2022).
- Services:** Shows the Cloudant service 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:** Lists the deployment automation configuration with Name (NodeREDRWGZW2022-11-08), Location (London), Tool integrations, and Delivery Pipelines.
- Delivery Pipelines:** Shows two pipelines: "pr-pipeline" (No stages detected) and "ci-pipeline" (Success).
- Getting Started:** Provides instructions on how to connect services, download code, and deploy the application.
- Right Sidebar:** Includes a user profile for Jothi Krishna T, a "Log out" button, and a "ASK A QUESTION" button.

## KARTHIKEYAN A – 715519106020



The screenshot shows the IBM Cloud dashboard for the application "Node RED UTDJB 2022-11-05". The interface is divided into several sections:

- Details:** Displays the App URL (<https://node-red-utdjb-2022-11-05.eu-gb.mybluemix.net>), Source (<https://eu-gb.git.cloud.ibm.com/karthikeyan31032001/NodeR...>), Resource group (Default), Deployment target (Node RED UTDJB 2022-11-05), and Created date (11/5/2022).
- Services:** Shows the Cloudant service 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:** Lists the deployment automation configuration with Name (NodeREDUTDJB2022-11-05), Location (London), Tool integrations, and Delivery Pipelines.
- Delivery Pipelines:** Shows two pipelines: "pr-pipeline" (No stages detected) and "ci-pipeline" (Success).
- Getting Started:** Provides instructions on how to connect services, download code, and deploy the application.
- Right Sidebar:** Includes a user profile for KARTHIKEYAN A, a "Log out" button, and a "ASK A QUESTION" button.

## NITHIYANANTH S – 715519106031

IBM Cloud

Search resources and products...

Q

Catalog

Manage

Nithiyananth S's Account

?

Resource list / App details /

Node RED QASAF 2022-11-08

Add tags

Details

App URL

https://node-red-qasaf-2022-11-08.eu-gb.mybluemix.net

Source

https://eu-gb.git.cloud.ibm.com/nithiyananthS/NodeREDQASA...

Resource group

Default

Deployment target

Node RED QASAF 2022-11-08

Created

08/11/2022

Services

Cloudant

Open dashboard

Documentation

API reference

Credentials

Connect existing services

Create service

Deployment Automation

Name

NodeREDQASAF2022-11-08

Location

London

Tool integrations

Delivery Pipelines

Name

ci-pipeline

Status

Success

Name

pr-pipeline

Status

No stages detected

Getting started

Configuring your app

To connect service to your app:

1. Use the **Services** card to connect a service to your app. Select an existing service instance, or create a new one. [Learn more.](#)

2. If you want to view the code before your app is deployed, click **Download code** to obtain the .zip file.

3. Click **Deploy your app** in the **Deployment Automation** card to select the deployment target and configure the Continuous Delivery service. The deployment begins automatically.

4. After the deployment begins, you can view the status of the deployment, modify your app, view your repo, or view the app's URL.

Log out

ASK A QUESTION



