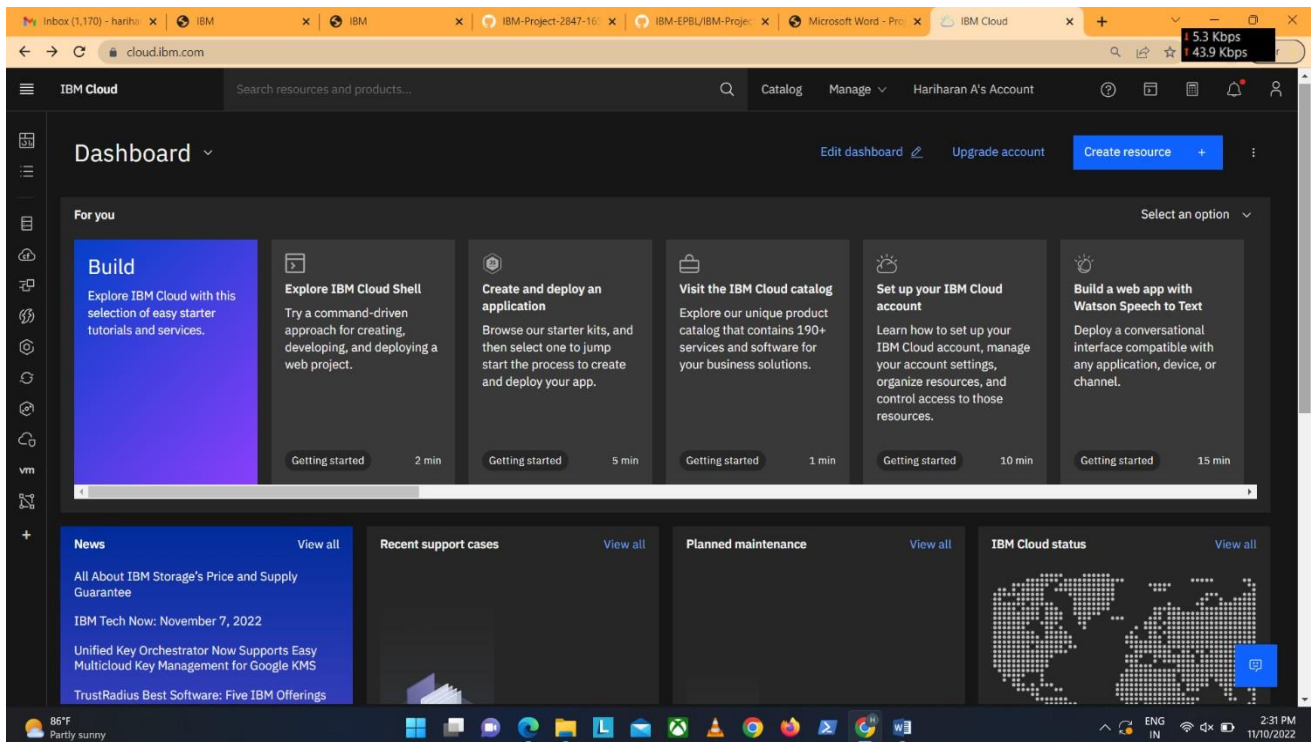


## PROJECT DEVELOPMENT PHASE

### SPRINT- 3

|               |   |
|---------------|---|
| Date          | 13 NOV 2022   |
| Team ID       | PNT2022TMID45219  |
| Project Name  | Project-Industry specific Intelligent Fire Management System. |
| Maximum marks | 20 marks  |



The screenshot displays the IBM Cloud 'Resource list' page. The page features a dark theme and a sidebar with navigation icons. The main content area is titled 'Resource list' and includes a 'Create resource' button. Below the title, there is a table with columns for Name, Group, Location, Product, Status, and Tags. The table lists various resource categories with counts in parentheses: Compute (0), Containers (0), Networking (0), Storage (0), AI / Machine Learning (0), Analytics (0), Blockchain (0), Databases (1+), Developer tools (0+), Logging and monitoring (0), Migration (0), and Integration (0+). The page also includes a search bar and a 'Filter by name or IP address...' dropdown.

Inbox (1,170) - harihar...IBMIBMIBM-Project-2847-16IBM-EPBL/IBM-ProjeMicrosoft Word - ProCatalog - IBM Cloud

cloud.ibm.com/catalog

34.0 Kbps9.5 Kbps

IBM Cloud

Search resources and products...

CatalogManageHariharan A's Account

Sell on IBM CloudCatalog settings

Catalog

node

Node-RED App

Node.js Express App

Natural Language Understanding Node.js App

Code Engine

Natural Language Understanding

CloudHedge App Modernization Platform

AI / Machine Learning (17)

Analytics (10)

Blockchain (1)

Databases (28)

Developer tools (25)

Alphabetically

AnonTech ViziVault Platform

By Anon Technology, Inc.

Manage personal information as-a-service safely, securely, and in compliance with data privacy regulations using ViziVault

Lite • Free • HIPAA Enabled • IAM-enabled • Service Endpoint Supported • IBM supported

API Connect

By IBM

An enterprise-grade platform for creating, securing, managing, sharing, monetizing, and analyzing custom APIs located on-premises and on the cloud.

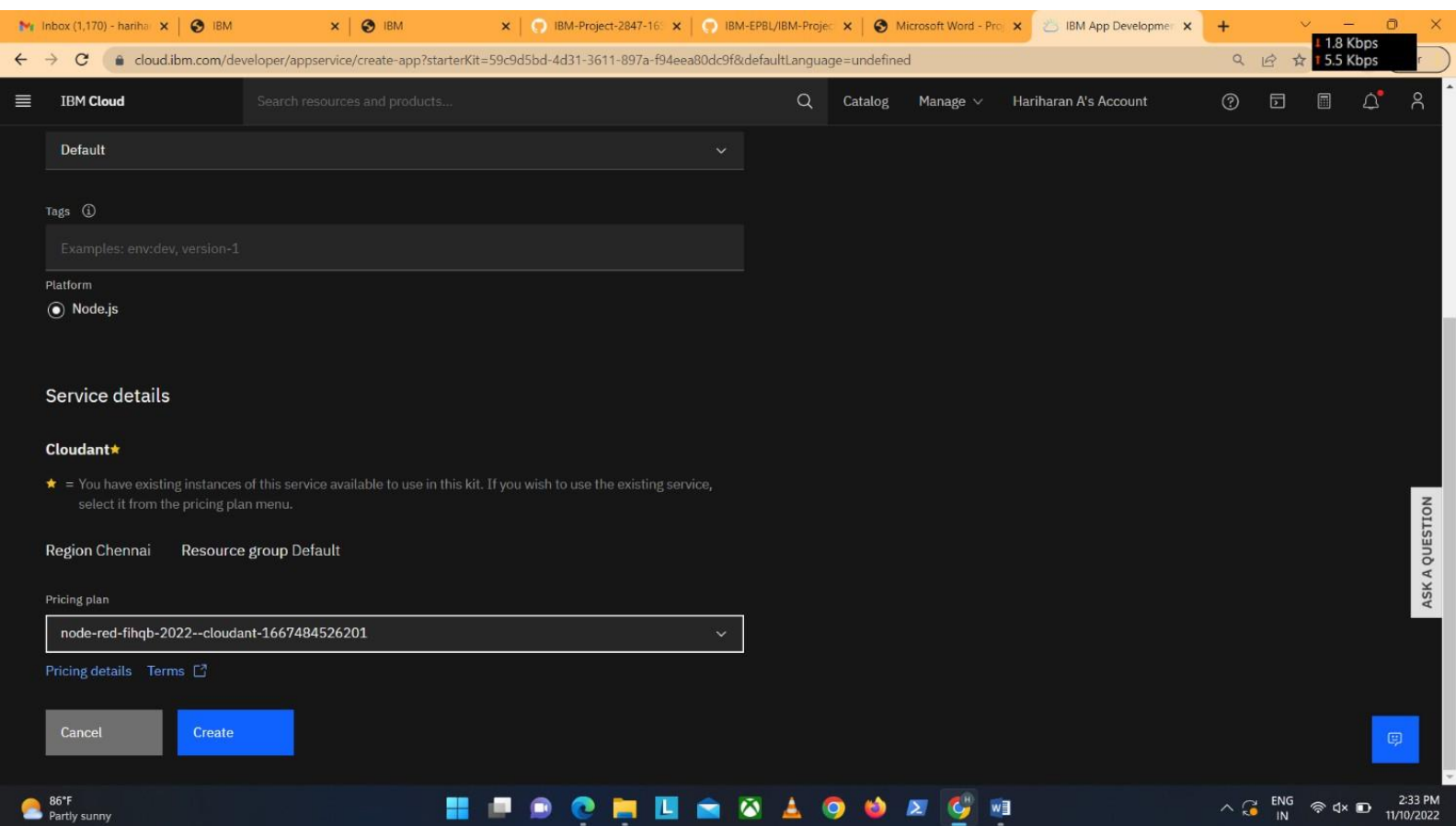
Lite • Free • EU Supported • IAM-enabled • IBM supported

86°F

Partly sunny

2:32 PM


11/10/2022



## Getting started quickly

### Configuring your app

To connect services and DevOps toolchains to your app:

1. Use the **Services** card to **configure** 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

Inbox (1,170) - hariharan x IBM x IBM-Project-2847-16 x IBM-EPBL/IBM-Proj Microsoft Word - Pro IBM App Developer x

cloud.ibm.com/developer/appservice/apps/907f2843-becc-4e14-a1da-db75f9dc6c1

Search resources and products... Catalog Manage Hariharan A's Account

Select the deployment target Configure the DevOps toolchain

## Deployment Automation

Select your deployment target and configure your DevOps toolchain. After you click **Create**, the toolchain is created, and the deployment process is started automatically.

Deployment target

### Kubernetes Service

IBM

Deploy, scale, and manage your containerized application workloads to highly available clusters.

### Red Hat OpenShift

IBM

Deploy your apps on highly available clusters that come installed with Red Hat OpenShift on IBM Cloud.

### Cloud Foundry

IBM

Deploy and run your applications without managing servers or clusters. A Lite plan is available for quick and easy deployment.

### Code Engine

IBM

Run your app, job, or container on a managed serverless platform. Auto-scale workloads, and pay only for the resources that you consume.

IBM Cloud API key

.....

New +

Number of instances

1

Memory allocation per instance

### Getting started with apps

#### Step 1. Select the deployment target

Select your deployment target, and then provide the configuration information.

#### IBM Cloud Foundry

Cloud Foundry is the premier industry standard Platform-as-a-Service (PaaS) that ensures fast, easy, and reliable deployment of cloud-native apps. Cloud Foundry ensures that the build and deploy aspects of coding remain carefully coordinated with any attached services — resulting in quick, consistent and reliable iterating of applications. Cloud Foundry has a Lite plan that allows quick deployments for testing purposes.

Before you begin

- If your account doesn't have a Cloud Foundry org, you must create one.  
[Create org.](#)

#### Steps

- Select the number of instances, memory allocation, region, org, and space.
- Select the domain and provide a host name.

ASK A QUESTION



Inbox (1,170) - hariharan@ibm.com

IBM

IBM-Project-2847-16

IBM-EPBL/IBM-Proje

Microsoft Word - Pro

IBM Cloud Account

cloud.ibm.com/account/cloud-foundry

Search resources and products...

CatalogManageHariharan A's Account

Account

Account resources

Resource groups

Cloud Foundry orgs

Licenses and entitlements

Tags

Dashboards

Account settings

IBM Cloud Shell settings

Notification distribution list

Classic infrastructure

Subscriptions

Audit log

Company information

Cloud Foundry Orgs / NP12345

SpacesUsersDomainsInfo

Add a space

| Name | Region         | ID                                   | Manager | Date Created | Actions |
|------|----------------|--------------------------------------|---------|--------------|---------|
| NP   | United Kingdom | 5b5acbb4-f73d-48d8-be87-8e9986e43001 | ✓       | 11/10/2022   |         |



IBM App Development

Cloud Foundry - IBM Cloud

+

cloud.ibm.com/developer/appservice/apps/f22a13bd-8a0d-4f89-9901-c8eb9011d4f2

IBM Cloud

Search resources and products...

Catalog

Manage

NETHAJI PM's Account

IBM Cloud Foundry Public is deprecated. [Learn more](#)

IBM Cloud API key

.....

.....

New +

Number of instances

1

Memory allocation per instance

64 MB

2000 MB

256

Region

Dallas

Dallas

Frankfurt

London

Sydney

Washington DC

Organization

Organization

The value is required.

Space

Space

The value is required.

Domain

mybluemix.net

Cancel

Next

ASK A QUESTION

Type here to search

8:12 PM 11/9/2022

IBM App Development

Cloud Foundry - IBM Cloud

+

cloud.ibm.com/developer/appservice/apps/f22a13bd-8a0d-4f89-9901-c8eb9011d4f2

IBM Cloud

Search resources and products...

Catalog

Manage

NETHAJI PM's Account

Resource list / App details /

Node RED PFHAL 2022-11-09

Select the deployment target

Configure the DevOps toolchain

Configure the DevOps toolchain

Give your toolchain a name and select the region to create your toolchain in.

DevOps toolchain name

NodeREDPFHAL2022-11-09

Accept the default name, or enter a value up to 100 characters.

Region

Dallas

Dallas

Washington DC

Toronto

London

Frankfurt

Sydney

Tokyo

Osaka

São Paulo

Getting started with apps

Step 2. Configure the DevOps toolchain

The DevOps toolchain includes a Delivery Pipeline tool where you can check the deployment status, start builds, manage deployment, and view logs and history.

1. Provide a name for your toolchain.

2. Select the region where your toolchain is created.

3. Select the resource group that has access to your new toolchain. [Learn more.](#)

4. After you're finished with your selections, click **Create**.

ASK A QUESTION

Type here to search

8:13 PM 11/9/2022

IBM App Development

Cloud Foundry - IBM Cloud

+

cloud.ibm.com/developer/appservice/apps/f22a13bd-8a0d-4f89-9901-c8eb9011d4f2

IBM Cloud

Search resources and products...

Catalog

Manage

NETHAJI PM's Account

Resource list / App details /

Node RED PFHAL 2022-11-09

Select the deployment target

Configure the DevOps toolchain

Configure the DevOps toolchain

Give your toolchain a name and select the region to create your toolchain in.

DevOps toolchain name

NodeREDPFHAL2022-11-09

Accept the default name, or enter a value up to 100 characters.

Region

London

Back

Create

Getting started with apps

Step 2. Configure the DevOps toolchain

The DevOps toolchain includes a Delivery Pipeline tool where you can check the deployment status, start builds, manage deployment, and view logs and history.

1. Provide a name for your toolchain.

2. Select the region where your toolchain is created.

3. Select the resource group that has access to your new toolchain. [Learn more.](#)



4. After you're finished with your selections, click **Create**.




ASK A QUESTION


Type here to search


8:13 PM 11/9/2022


## Services

**Cloudant**

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

Credentials 


Connect existing services 

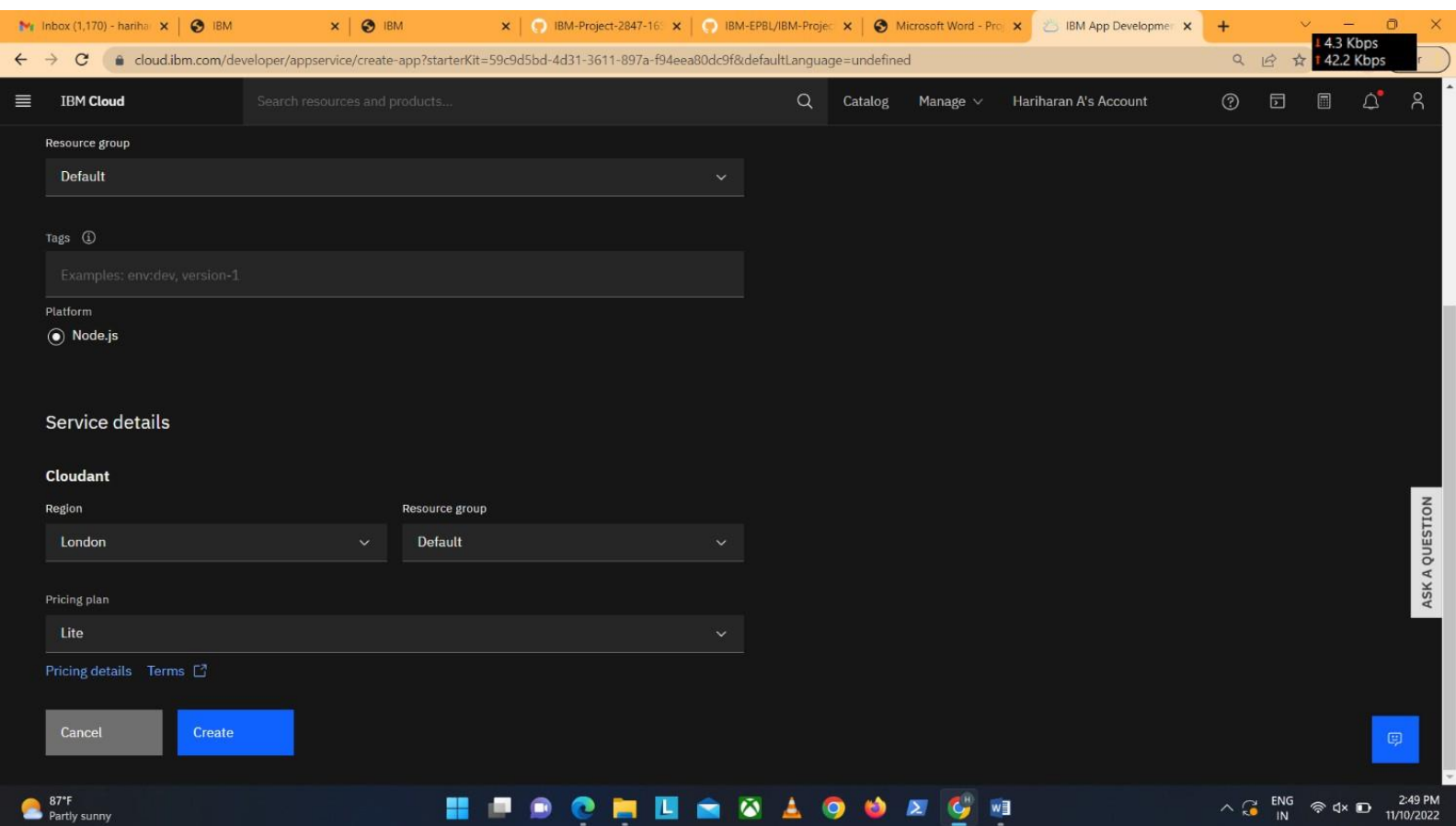
Create service 

## Getting started quickly

### Configuring your app

To connect services and DevOps toolchains to your app:


1. Use the **Services** card to **configure** 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



Inbox (1,170) - harihar...IBMIBMIBM-Project-2847-16IBM-EPBL/IBM-ProjeMicrosoft Word - ProInternet of Things Pla

cloud.ibm.com/catalog/services/internet-of-things-platform53.5 Kbps192.7 Kbps

IBM CloudSearch resources and products...CatalogManageHariharan A's Account



Catalog /

Internet of Things Platform

This service is the hub of all things IBM IoT, it is where you can set up and manage your connected devices so that your apps can access their live and historical data.

CreateAbout

TypeService

ProviderIBM

Last updated08/15/2022

CategoryInternet of Things

ComplianceIAM-enabled

LocationFrankfurtLondonDallasWashington DC

Related linksDocs

Select a location

London (eu-gb)

Select a pricing plan

Displayed prices do not include tax. Monthly prices shown are for country or location: [United States](#)

| Plan | Features   | Pricing |
|------|--|---------|
| Lite | <b>Includes up to 500 registered devices, and a maximum of 200 MB of each data metric</b><br>Maximum of 500 registered devices<br>Maximum of 500 application bindings<br>Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed | Free    |

The Lite service plan for Internet of Things Platform includes up to 500 registered devices, and a maximum of 200 MB each of ed, and edge data analyzed per month.

Summary

Internet of Things Platform

Free

Location: London

Plan: Lite

Service name: Internet of Things Platform-um

Resource group: Default

☒ I have read and agree to the following license agreements:


[Terms](#)

☐ Creating...

Add to estimate

Waiting for 684d0d4b.akstaLio...

87°FPartly sunny



ENG IN2:56 PM11/10/2022

Inbox (1,170) - hariha

IBM

IBM

IBM-Project-2847-16

IBM-EPBL/IBM-Proje

Microsoft Word - Pro

Service Details - IBM

cloud.ibm.com/services/iotf-service/cm%3Av1%3Abluemix%3Apublic%3Aiotf-service%3Aeu-gb%3Aa%2Fcba9e1df7b89423882c07b8aa992f177%3Aed0b3085-a71e-4b28-a40e-327972...

801.5 Kbps  
155.4 Kbps

IBM Cloud

Search resources and products...

Catalog

Manage

Hariharan A's Account

?

Resource list /

Internet of Things Platform-um

Active

Add tags

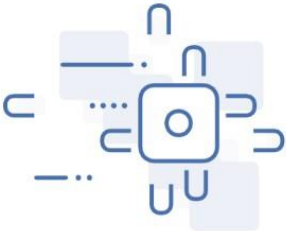
Details

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.

Free

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.


Starts at \$500 per month

Production

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

Includes IBM Service & Support

87°F  
Partly sunny



ENG  
IN

2:56 PM  
11/10/2022









Inbox (1,170) - h

IBM

IBM

IBM-Project-284

IBM-EPBL/IBM-P

Microsoft Word

Service Details -

IBM Watson IoT P

dv40m6.internetofo

1.3 Kbps  
1.4 Kbps

IBM Watson IoT Platform

hariharan07ananth@psnacet.edu.in  
ID: dv40m6

BrowseActionDevice TypesInterfaces

All DevicesDiagnose

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

| <input type="checkbox"/>  | Device ID | Status | Device Type | Class ID |
|---------------------------|-----------|--------|-------------|----------|
| You don't have any device |           |        |             |          |

Create a device.

Device Type: Arduino

Events 1New event type +

Event type nameevent\_1Send

Schedule20Every Minute

PayloadSpecify the event payload in the editor window or by uploading a CSV file.

```
{ 1 "randomNumber": random(0, 100) 2 } 3
```

Upload a CSV file

What functions can I apply?

CancelSave

[Browse](#)   [Action](#)   [Device Types](#)   [Interfaces](#)

All Devices Diagnose

🔍 Search by Device ID

Items per page 50 | 1–1 of 1 item

0 bytes sent ➤

IBM Watson IoT Platform

hariharan07ananth@psnacet.edu.in  
ID: dv40m6

Browse Action Device Types Interfaces

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 ID   | Status | Device Type | Class ID |
|---|--------|-------------|----------|
| You don't have any device yet.<br><button>Create a device.</button> |        |             |          |

< Device Type: Arduino >

Events 1 New event type +

Event type name event\_1 Send

Schedule20 Every Minute

PayloadSpecify the event payload in the editor window or by uploading a CSV file.

```
{  
  "randomNumber": random(0, 100)  
}
```

Upload a CSV file

What functions can I apply?

Cancel Save

×



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

**Next**

All Devices Diagnose

## Diagnose

0 Simulations running

The screenshot displays the 'Add Device' wizard in the IBM Watson IoT Platform. The wizard is currently at the 'Device Information' step, which is highlighted with a checkmark. The progress bar at the top shows four steps: Identity, Device Information, Security, and Summary. The 'Device Information' step contains the following information:

- Device Type: Arduino
- Device ID: 12345
- Security Token: 12345678

A 'View Metadata' button is located below the device information. The 'Finish' button is highlighted in blue at the bottom right of the wizard. The top navigation bar shows 'Browse', 'Action', 'Device Types', and 'Interfaces'. The bottom status bar shows '0 Simulations running'.





[Browse](#)   [Action](#)   [Device Types](#)   [Interfaces](#)

All Devices Diagnose


🔍 Search by Device ID

Items per page 50 | 1–1 of 1 item

0 bytes sent ➤

## Resource list

[Create resource](#) +

| ▼ Name  | ↑ Group  | Location                               | Product                                | Status                                 | Tags                                   |
|---|--|--|--|--|--|
| <input type="text" value="Filter by name or IP address..."/>  | <input type="text" value="Filter by group or org..."/> | <input type="text" value="Filter..."/> | <input type="text" value="Filter..."/> | <input type="text" value="Filter..."/> | <input type="text" value="Filter..."/> |
| ^ Compute (1)   |  |  |  |  |  |
|  Node RED CBSOU 2022-11-09 | NP123 / NP   | London                                 | Node.js                                | Started                                | -                                      |
| ▼ Co Node RED CBSOU 2022-11-09  |  |  |  |  |  |
| ▼ Networking (0)  |  |  |  |  |  |
| ▼ Storage (0)   |  |  |  |  |  |
| ▼ AI / Machine Learning (0)   |  |  |  |  |  |
| ▼ Analytics (0)   |  |  |  |  |  |
| ▼ Blockchain (0)  |  |  |  |  |  |
| ▼ Databases (2+)  |  |  |  |  |  |
| ▼ Developer tools (3+)  |  |  |  |  |  |
| ▼ Logging and monitoring (0)  |  |  |  |  |  |

Resource list /

Node RED CBSOU 2022-11-09 Running [Visit App URL](#) [Add tags](#)

Details

Actions...

Getting started

Overview

Runtime

Connections

Logs

API Management

Autoscaling

IBM Cloud Foundry Public is being deprecated. Please see full details.

### Instances

Edit

Health

100%

1/1 Instance(s) are running

MB memory per instance

0 2048 256

Instances

1 - +

### Runtime

Node.js



1.75 GB still available

Free Used

### Runtime cost

Current and estimated cost excludes connected services.

### Connections (1)

<https://node-red-cbsou-2022-11-09.eu-gb.mybluemix.net>



## Secure your Node-RED editor

☐ Secure your editor so only authorised users can access it

☒ *Not recommended:* Allow anyone to access the editor and make changes

Your editor will not be secured. Anyone with the URL will be able to access your flows, data and bound services.

☐ Tick this box to confirm you want your editor to be insecure

Loading Nodes

