

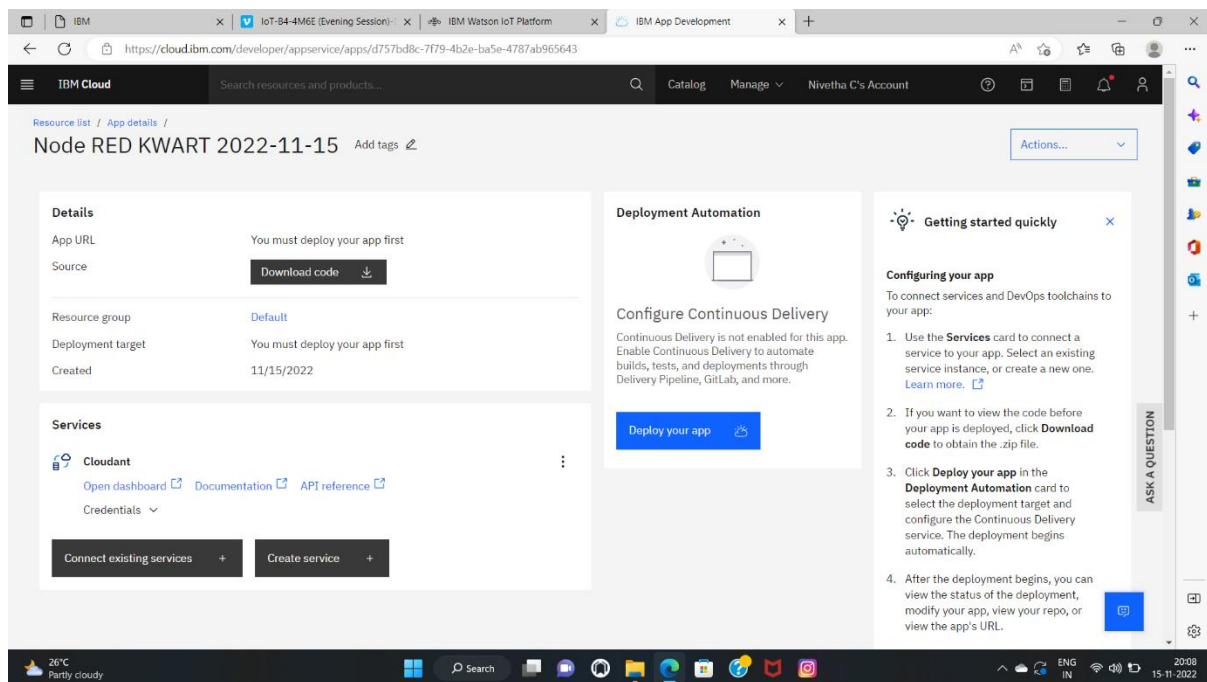
# Create And Configure IBM Cloud Services

## Create Node-RED Service

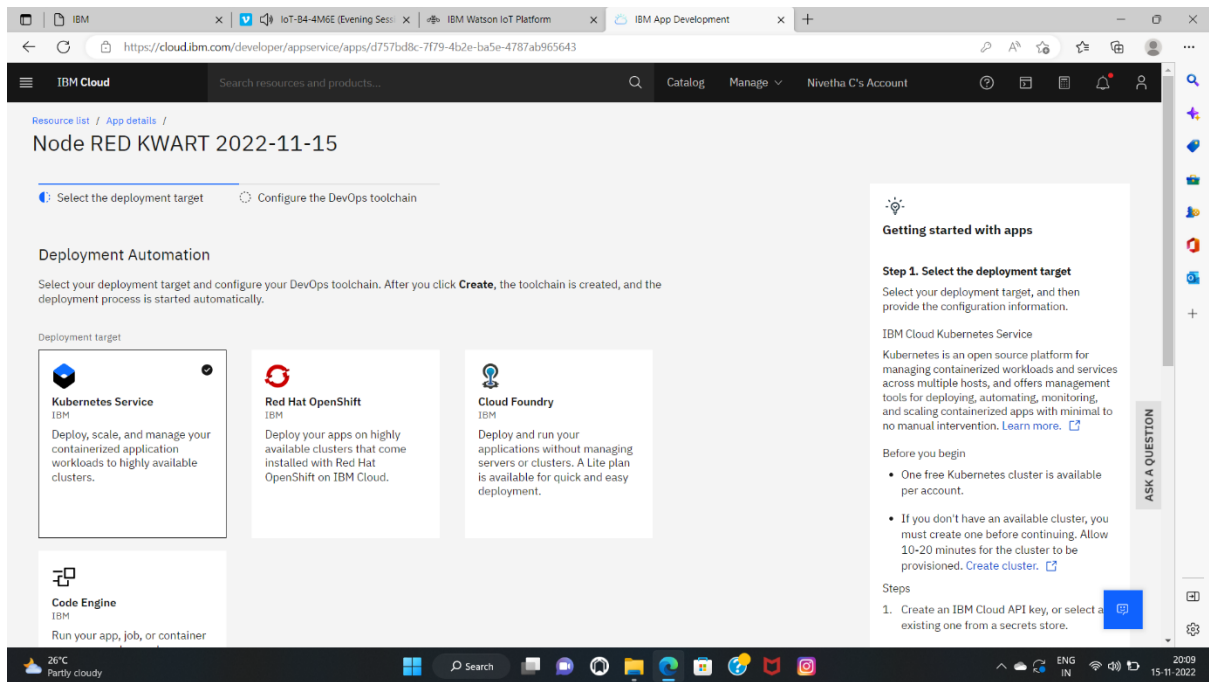
Date	16 November 2022
Team Id	PNT2022TMID34030
Project Name	IOT-Smart Waste Management For Metropolitan Cities

### STEPS:

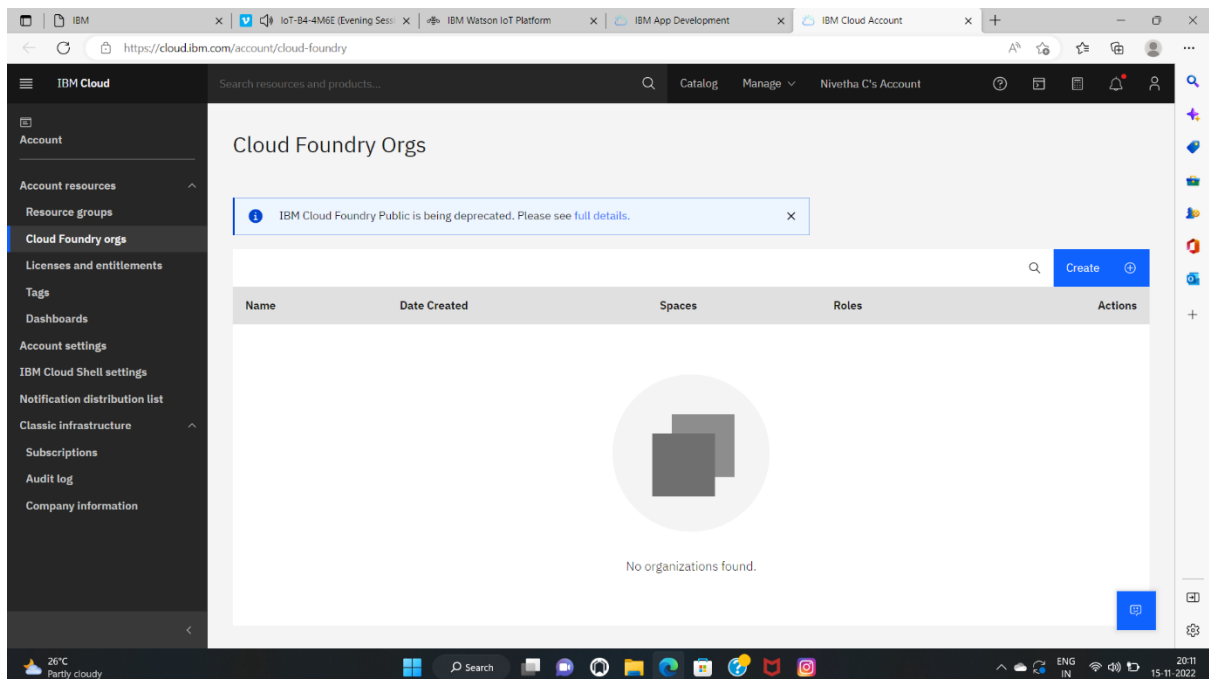
- 1.Login into IBM cloud account.
- 2.In catalog , search for node red application
- 3.Enter the project details and click on create
- 4.Click on deploy option and deploy



- 5.Set up the environment for deploying and click on create.



## 6.Click on Cloud Foundry Orgs.



## 7.Click Create

IBM Cloud Account: Cloud Foundry Orgs

Search resources and products...

IBM Cloud Foundry Public is being deprecated. Please see [full details](#).

Name	Date Created	Spaces	Roles	Actions
<a href="#">SmartWasteManagement123</a>	15/11/2022	0	Manager	<a href="#">i</a>

26°C Partly cloudy

## 8.Click Add a Space.

IBM Cloud Account: SmartWasteManagement123 Spaces

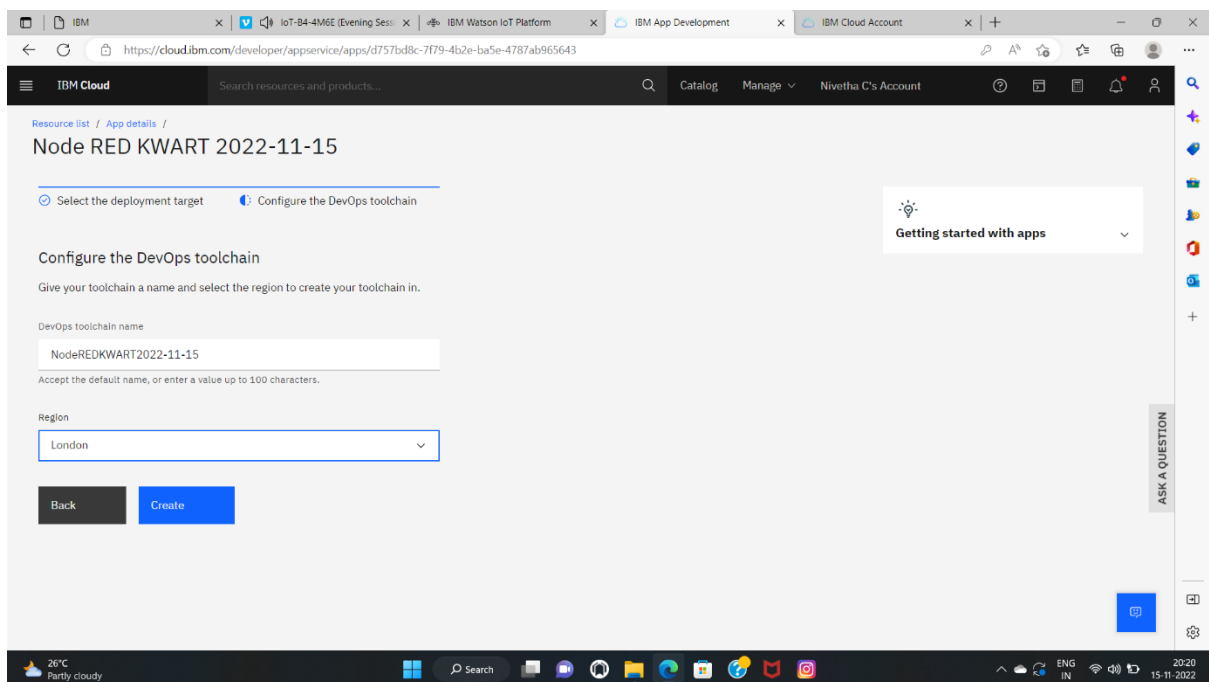
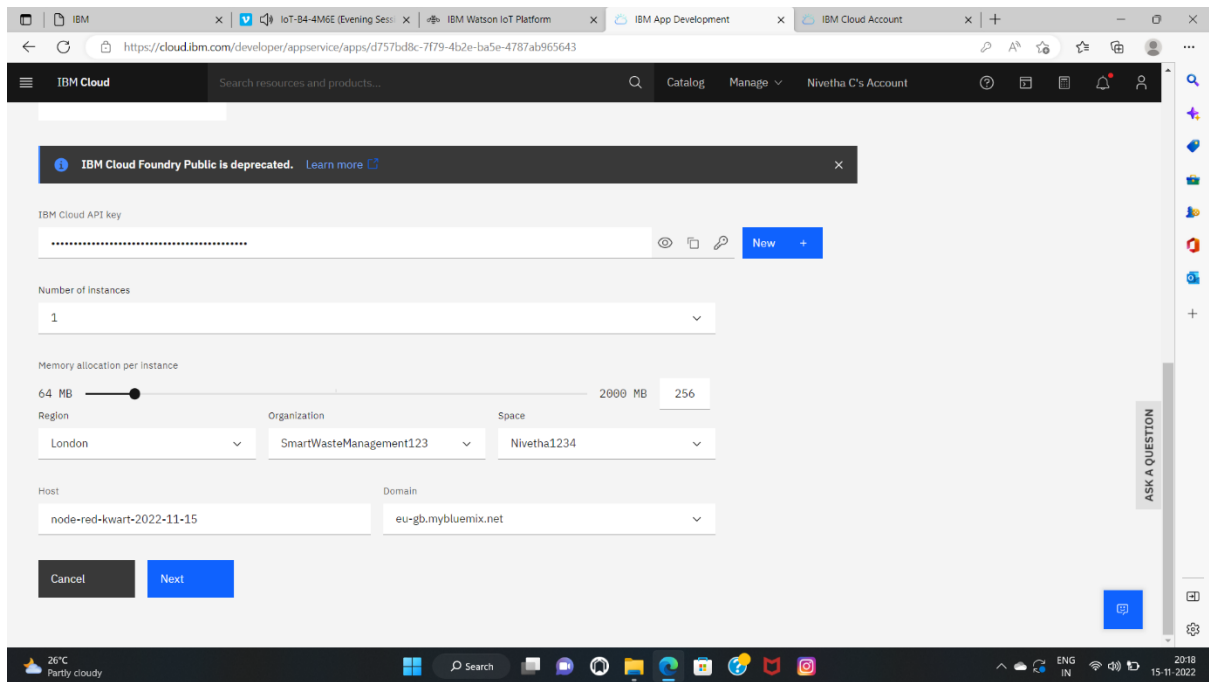
Cloud Foundry Orgs / [SmartWasteManagement123](#)

Spaces Users Domains Info

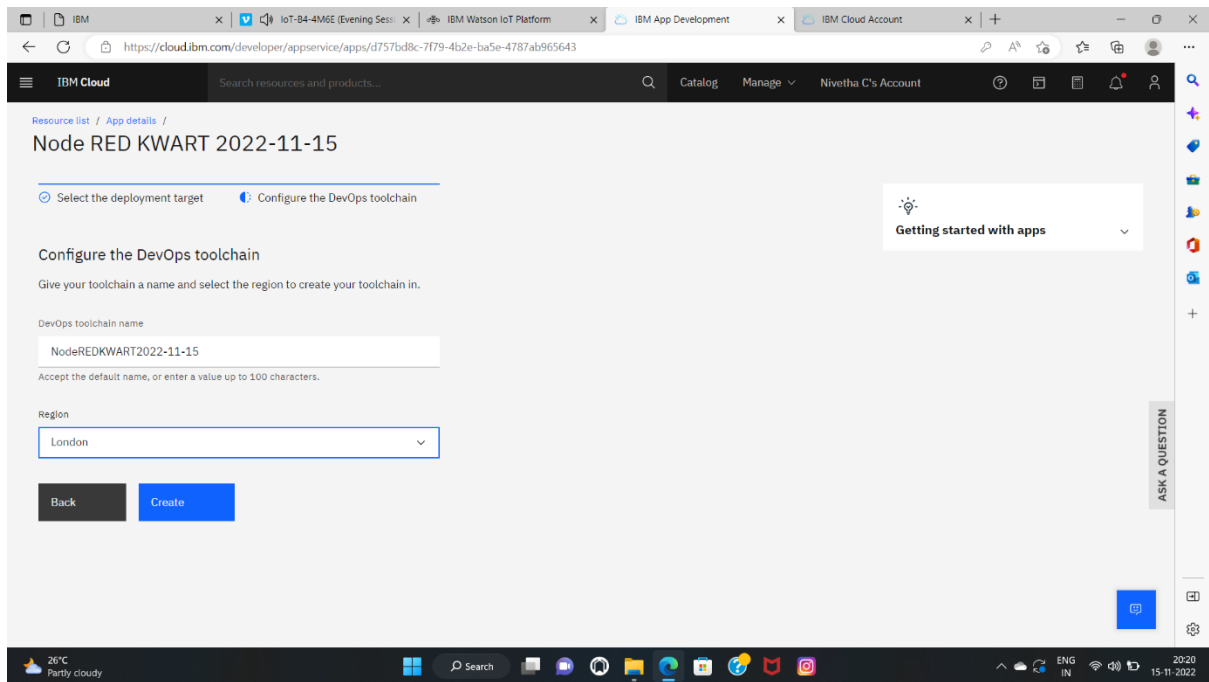
Add a space

Name	Region	ID	Manager	Date Created	Actions
<a href="#">Nivetha1234</a>	United Kingdom	a4cd34ea-b5a2-44e1-817a-c81db2283b75	✓	15/11/2022	<a href="#">i</a>

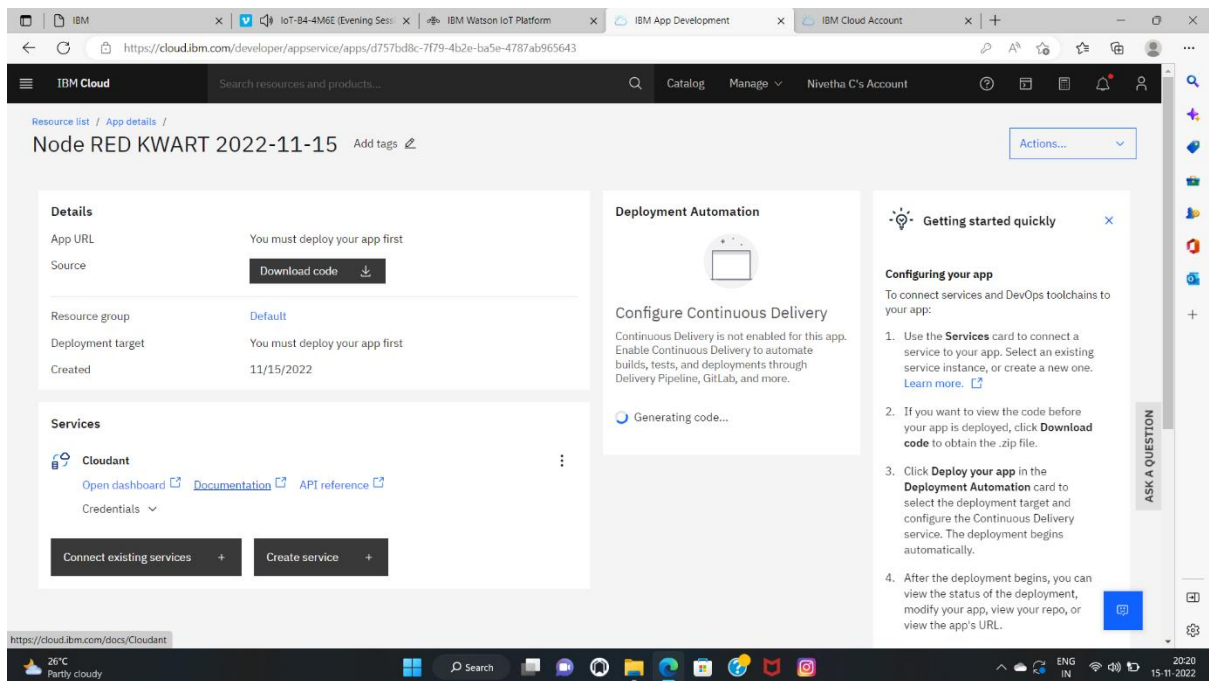
26°C Partly cloudy



9. Click Create.



## 10. Click Download Code



Node RED KWART 2022-11-15 Add tags

**Details**

App URL: <https://node-red-kwart-2022-11-15.eu-gb.mybluemix.net>

Source: <https://eu-gb.git.cloud.ibm.com/960219104073/NodeREDKW...>

Resource group: Default

Deployment target: You must deploy your app first

Created: 11/15/2022

**Services**

Cloudant

Open dashboard Documentation API reference

Credentials

Connect existing services Create service

**Deployment Automation**

Name: NodeREDKWART2022-11-15

Location: London

Tool integrations

**Delivery Pipelines**

Name: pr-pipeline Status: No stages detected

Name: ci-pipeline Status: In progress

**Getting started quickly**

**Configuring your app**

To connect services and DevOps toolchains 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.

11. Click the App URL.

Node RED KWART 2022-11-15 Add tags

**Details**

App URL: <https://node-red-kwart-2022-11-15.eu-gb.mybluemix.net>

Source: <https://eu-gb.git.cloud.ibm.com/960219104073/NodeREDKW...>

Resource group: Default

Deployment target: Node RED KWART 2022-11-15

Created: 11/15/2022

**Services**

Cloudant

Open dashboard Documentation API reference

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Connect existing services Create service

**Deployment Automation**

Name: NodeREDKWART2022-11-15

Location: London

Tool integrations

**Delivery Pipelines**

Name: pr-pipeline Status: No stages detected

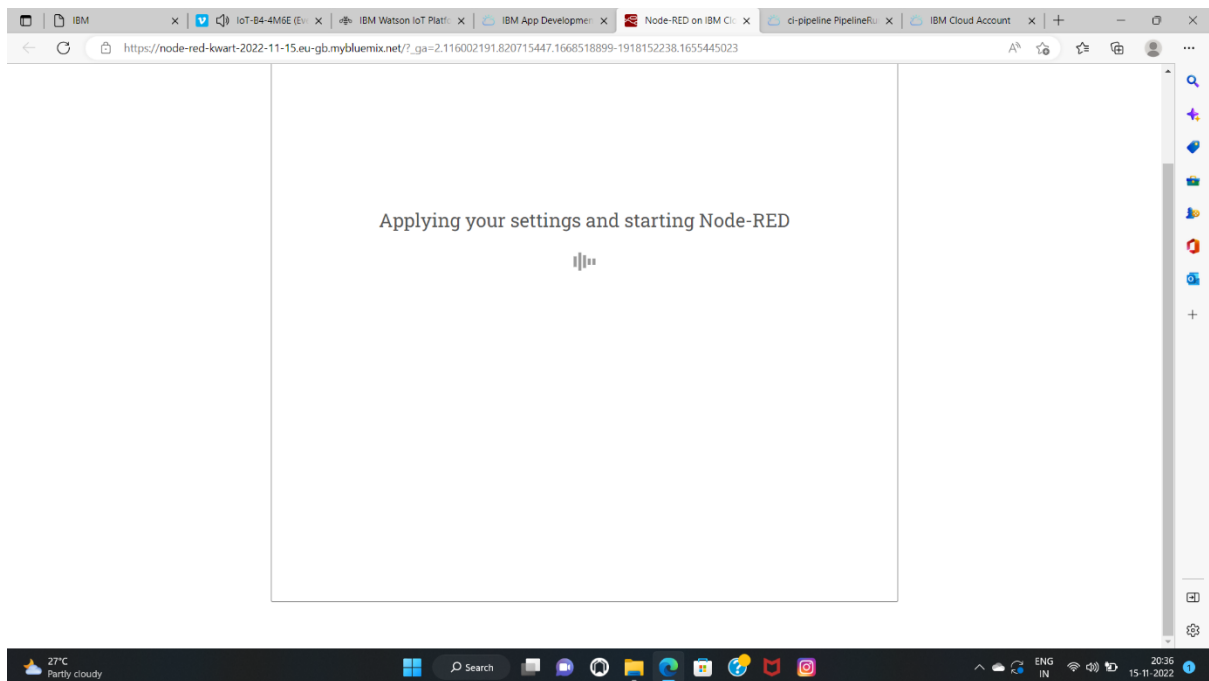
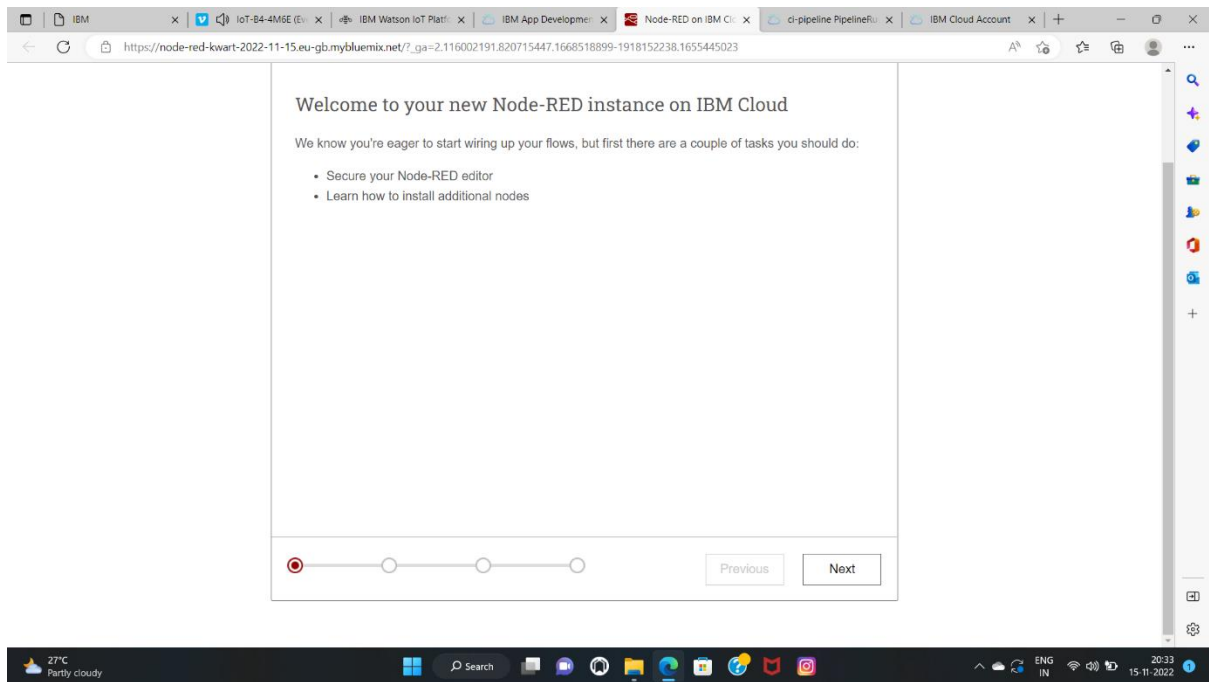
Name: ci-pipeline Status: Success

**Getting started quickly**

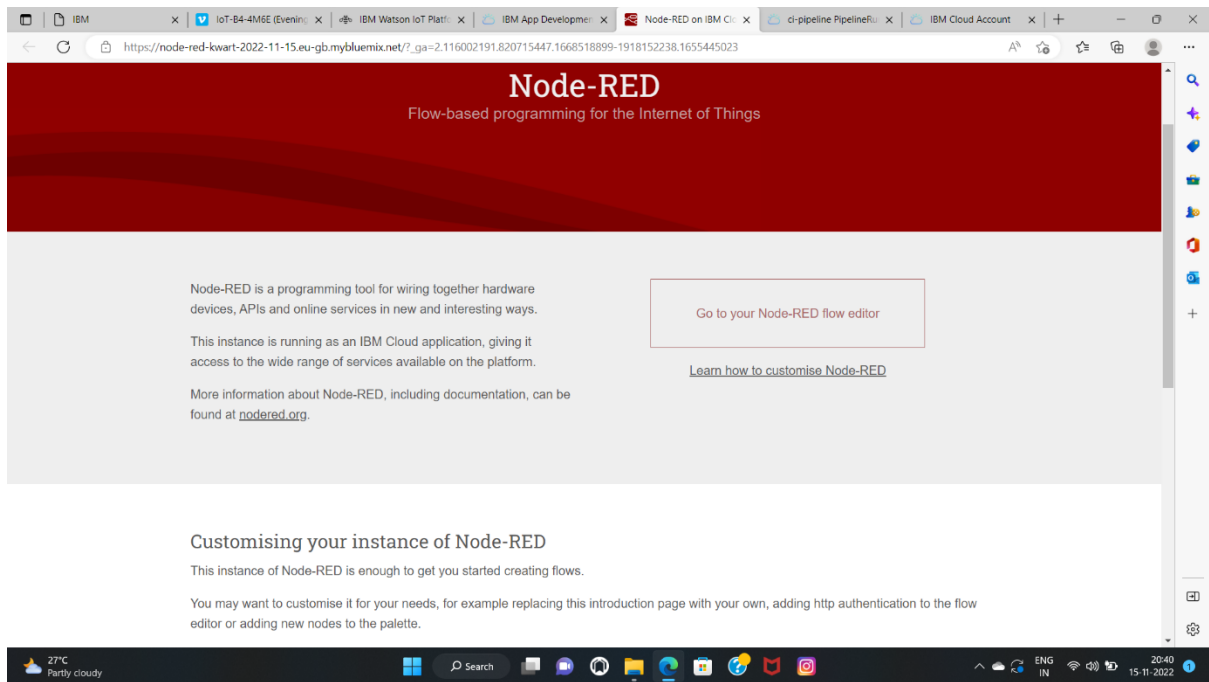
**Configuring your app**

To connect services and DevOps toolchains to your app:

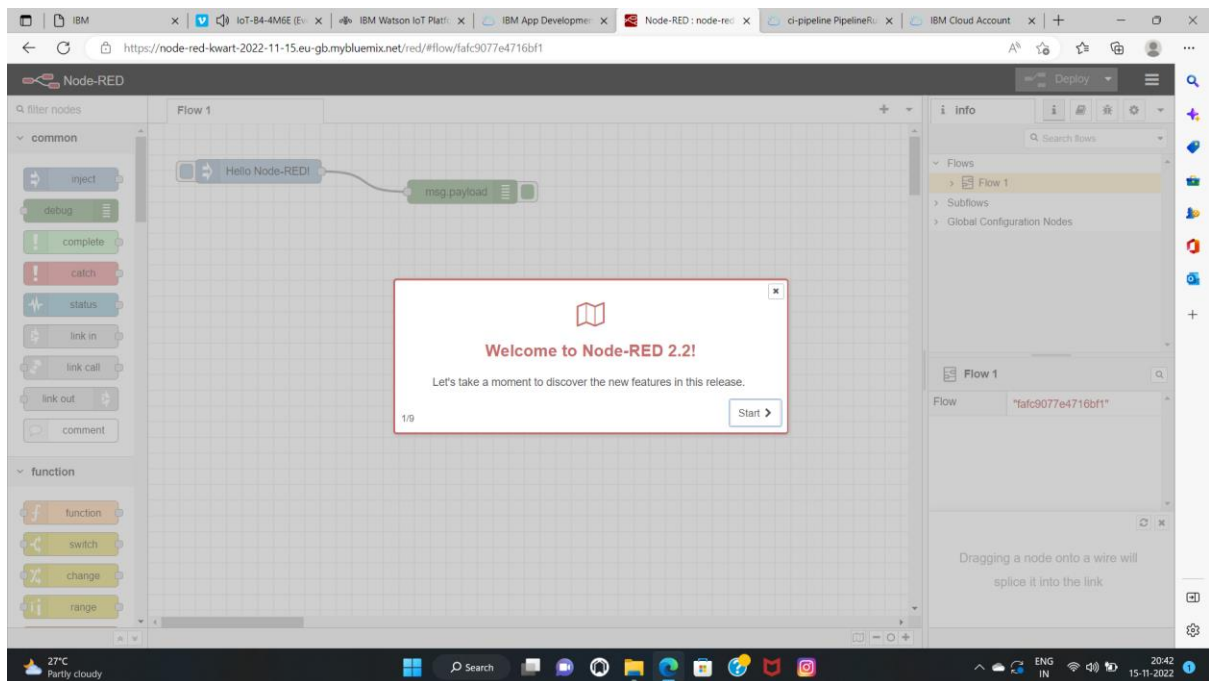
1. Use the **Services** card to connect a service to your app. Select an existing service instance, or create a new one. [Learn more.](#)
2. If you want to view the code before your app is deployed, click **Download code** to obtain the .zip file.
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4. After the deployment begins, you can view the status of the deployment, modify your app, view your repo, or view the app's URL.



12. Node-Red window is opened.



### 13. Welcome to Node-RED 2.2! Click "START"



### 14. API Key



**The API key has been added.**

Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the API key to generate a new authentication token.

Generated Details		API Key Information	
API Key	a-5v9601-hmjokrv8f7	Description	-
Authentication Token	aN&12ovRIE4*nFa10u	Role	Standard Application
		Expires	Never

Make a note of the generated authentication token. Lost authentication tokens cannot be recovered. If you lose the token, you must reregister the API to generate a new token.

[View API Key](#) [Add Another](#) [Close](#)

### Browse API Keys

This table shows a summary of the API keys that have been added for the organization. It can be filtered, organized, and search on using different criteria. To get started, you can add API keys by clicking Generate API Key

1 Simulation running

15. Now drag and drop the nodes and connect nodes with IOT Watson Platform.

```

graph LR
    IoT[IBM IoT] --> TempF[temperature node]
    IoT --> HumF[humidity node]
    TempF --> TempOut[temperature]
    TempF --> Payload[msg.payload]
    HumF --> HumOut[humidity]
    HumF --> Payload
    Payload --> Debug[debug]
  
```

debug

```

{ temperature: 56, humidity: 84 }
15/11/2022, 9:45:39 pm node: 120549a0d0d98
iot-
2/type/SmartWasteManagement1231d56789evl/event_1f
: msg.payload : number
56
15/11/2022, 9:45:41 pm node: 120549a0d0d98
iot-
2/type/SmartWasteManagement1231d56789evl/event_1f
: msg.payload : Object
{ temperature: 27, humidity: 43 }
15/11/2022, 9:45:41 pm node: 120549a0d0d98
iot-
2/type/SmartWasteManagement1231d56789evl/event_1f
: msg.payload : Object
27
15/11/2022, 9:45:44 pm node: 120549a0d0d98
iot-
2/type/SmartWasteManagement1231d56789evl/event_1f
: msg.payload : Object
{ temperature: 64, humidity: 70 }
15/11/2022, 9:45:44 pm node: 120549a0d0d98
iot-
2/type/SmartWasteManagement1231d56789evl/event_1f
: msg.payload : number
64
  
```

