

PROJECT DEVELOPMENT PHASE SPRINT- 2

Date	02-11-2022
Team ID	PNT2022TMID29717
Project Name	Project-Industry specific Intelligent Fire Management System.
Maximum marks	20 marks

IBM Cloud

Search resources and products...

Catalog

Manage

sumathi M's Account

?

Dashboard

Edit dashboard

Upgrade account

For you

Build

Explore IBM Cloud with this selection of easy starter tutorials and services.

Use Cloud Foundry

Deploy and run your applications without managing servers or clusters with IBM Cloud Foundry.

Recommended10 min

Explore IBM Cloud Shell

Try a command-driven approach for creating, developing, and deploying a web project.

Getting started2 min

Create and deploy an application

Browse our starter kits, and then select one to jump start the process to create and deploy your app.

Getting started5 min

Visit the catalog

Explore our catalog of services and software for your business solutions.

Getting started1 min

IBM Cloud

your account organization control resource

Getting started

User access

Manage users

Enter email addresses below to jump directly into the invite user setup:

News

View all

All About IBM Storage's Price and Supply Guarantee

IBM Tech Now: November 7, 2022

Planned maintenance

View all

Catalog - IBM Cloud

cloud.ibm.com/catalog

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Sell on IBM Cloud

Catalog settings

Catalog

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)



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 •



API Connect
By IBM

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

Lite • Free • EU Supported • IAM-enabled •

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7:59 PM 11/9/2022

ASK A QUESTION

IBM Cloud

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Source

Download code

Resource group

Default

Deployment target

You must deploy your app first

Created

11/9/2022

Services

Cloudant

Open dashboard

Documentation

API reference

Credentials

Connect existing services

Create service

Configure Continuous Delivery

Continuous Delivery is not enabled for this app. Enable Continuous Delivery to automate builds, tests, and deployments through Delivery Pipeline, GitLab, and more.

Deploy your app

Getting started quickly

Configuring your app

ASK A QUESTION

IBM App Development

IBM Cloud Account

+

cloud.ibm.com/account/cloud-foundry

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Account

Account resources

Resource groups

Cloud Foundry orgs

Licenses and entitlements

Tags

Dashboards

Account settings

IBM Cloud Shell settings

Notification distribution list

Classify infrastructure

Subscriptions

Audit log

Company information

Cloud Foundry Orgs

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

Create

Name	Date Created	Spaces	Roles	Actions
NP123	11/9/2022	1	Manager	

https://cloud.ibm.com/account/cloud-foundry/NP123?accountid=9c9bda338842496faa4d25bdea593c83

Type here to search

8:01 PM

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IBM App Development

IBM Cloud Account

+

cloud.ibm.com/account/cloud-foundry/NP123?accountId=9c9bda338842496faa4d25bdea593c83

IBM Cloud

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CatalogManageNETHAJI PM's Account

Cloud Foundry Orgs / NP123

SpacesUsersDomainsInfo

Add a space

Name	Region	ID	Manager	Date Created	Actions
NP	United Kingdom	d64b15f1-ad96-4c6a-b2aa-4846070ee57c	✓	11/9/2022	

https://cloud.ibm.com/account/cloud-foundry/NP123/spaces/d64b15f1-ad96-4c6a-b2aa-4846070ee57c?accountId=9c9bda338842496faa4d25bdea593c83

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IBM App Development

Cloud Foundry - IBM Cloud

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

IBM Cloud

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

IBM Cloud API key

.....

.....

New

Number of instances

2

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

Type here to search

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IBM App Development

Cloud Foundry - IBM Cloud

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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**.

Type here to search

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IBM App Development

Cloud Foundry - IBM Cloud

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

IBM Cloud

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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**.

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IBM App Development

Cloud Foundry - IBM Cloud

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

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Resource list / App details /

Node RED PFHAL 2022-11-09

Add tags

Actions...

Details

App URL

You must deploy your app first

Source

Download code

Resource group

Default

Deployment target

You must deploy your app first

Created

11/9/2022

Services

Cloudant

Open dashboard

Documentation

API reference

Credentials

Connect existing services

Create service

Deployment Automation

Configure Continuous Delivery

Continuous Delivery is not enabled for this app. Enable Continuous Delivery to automate builds, tests, and deployments through Delivery Pipeline, GitLab, and more.

Checking cache...

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.

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IBM App Development

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

IBM Cloud

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Node RED PFHAL 2022-11-09

Add tags

Actions...

Details

App URL

You must deploy your app first

Source

<https://eu-gb.git.cloud.ibm.com/513119106060/NodeREDPFH...>

Resource group

Default

Deployment target

You must deploy your app first

Created

11/9/2022

Services

Cloudant

[Open dashboard](#)

[Documentation](#)

[API reference](#)

Credentials

Connect existing services

Create service

Deployment Automation

Name

NodeREDPFHAL2022-11-09

Location

London

Tool integrations

Delivery Pipelines

Name

ci-pipeline

Status

In progress

Name

pr-pipeline

Status

No stages detected

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.

link node red.html

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Internet of Things Platform - IBM x Cloud Foundry - IBM Cloud x +

cloud.ibm.com/catalog/services/internet-of-things-platform

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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.

Create

About

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	<div>Includes up to 500 registered devices, and a maximum of 200 MB of each data metric</div> <div>Maximum of 500 registered devices</div> <div>Maximum of 500 application bindings</div> <div>Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed</div>	Free

Summary

Internet of Things Platform

Location: London

Plan: Lite

Service name: Internet of Things Platform-h

Resource group: Default

☐ I have read and agree to the following license agreements:
[Terms](#)

Create

Add to estimate

link node red.html

Type here to search

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Service Details - IBM Cloud x IBM Watson IoT Platform x Resource list - IBM Cloud x +

internetofthings.ibmcloud.com

IBM Watson IoT Platform

513119106060@smartin...
ID: (select org)

edpqis (ID edpqis)
Bluemix Free

Sign out

Cookie Preferences

https://edpqis.internetofthings.ibmcloud.com/dashboard/

link node red.html

Type here to search

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Service Details - IBM Cloud

IBM Watson IoT Platform

Resource list - IBM Cloud

+

edpqiis.internetofthings.ibmcloud.com/dashboard/devices/browse/add

IBM Watson IoT Platform

Browse

Action

Device Types

Interfaces

Search by Device ID

Device ID

Status

Device Type

You don't have any devices yet.

Create a device

Simulations

[Import/Export simulation](#)

You can use the simulated event data to learn about, test, and demonstrate fully functioning Watson IoT Platform features. You can simulate a device and its data or simulate only data for a device that is already registered.

To create a device simulation:

1. Select a device type.
2. Configure the event and payload.
3. Add devices.

+ Create simulation

link node red.html

Type here to search

e

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ENG

Service Details - IBM Cloud

IBM Watson IoT Platform

Resource list - IBM Cloud

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edpqiis.internetofthings.ibmcloud.com/dashboard/devices/browse/add

IBM Watson IoT Platform

Browse

Action

Device Types

Interfaces

Search by Device ID

<input type="checkbox"/>	Device ID	Status	Device Type
You don't have any devices yet.			

Create a new device

Simulations

Import/Export simulation

You can use the simulated event data to learn about, test, and demonstrate fully functioning Watson IoT Platform features. You can simulate a device and its data or simulate only data for a device that is already registered.

To create a device simulation:

1. Select a device type.
2. Configure the event and payload.
3. Add devices.

arduino

Create device type "arduino"

link node red.html

Type here to search

e

8:20 PM

11/9/2022

ENG

Service Details - IBM Cloud x IBM Watson IoT Platform x Resource list - IBM Cloud x

edpqiis.internetofthings.ibmcloud.com/dashboard/devices/browse/add

IBM Watson IoT Platform

Browse Action Device Types Interfaces

Search by Device ID

<input type="checkbox"/>	Device ID	Status	Device Type
You don't have any devices yet.			

Create a new device

Device Type: arduino

Events 1 New event type +

Event type name event_1 Send

Schedule 1 Every Minute

Payload

Specify the event payload in the editor window or by uploading a [CSV file](#).

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

Upload a CSV file

link node red.html Show a...

Type here to search

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Service Details - IBM Cloud

IBM Watson IoT Platform

Resource list - IBM Cloud

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edpqiis.internetofthings.ibmcloud.com/dashboard/devices/browse/add

IBM Watson IoT Platform

Browse

Action

Device Types

Interfaces

Search by Device ID

Device ID

Status

Device Type

You don't have any devices yet.

Create a new device

Simulations

Import/Export simulation

0/50 Simulations Running

+ New Simulation

> Device Type 12345

Configure Event

> Device Type arduino

1 Event

No simulations are currently created for the device type.

1 x

Create Simulated Device

Use Registered Device

link node red.html

Type here to search

e

8:22 PM

11/9/2022

ENG

Service Details - IBM Cloud

IBM Watson IoT Platform

Resource list - IBM Cloud

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edpqiis.internetofthings.ibmcloud.com/dashboard/devices/browse/add

IBM Watson IoT Platform

Browse

Action

Device Types

Interfaces

Search by Device ID

Device ID

Status

Device Type

You don't have any devices yet.

Create a new device

Device Type: 12345

Payload

Specify the event payload in the editor window or by uploading a [CSV file](#).

0 {

1 "randomNumber": random(0, 100)

2 }

3

Upload a CSV file

[What functions can I apply?](#)

Cancel

Save

link node red.html

Type here to search

e

8:22 PM

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Service Details - IBM Cloud

IBM Watson IoT Platform

Resource list - IBM Cloud

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edpqis.internetofthings.ibmcloud.com/dashboard/devices/browse/add

IBM Watson IoT Platform

513119106060@smartinternz.com
ID: edpqis

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

arduino

Device ID

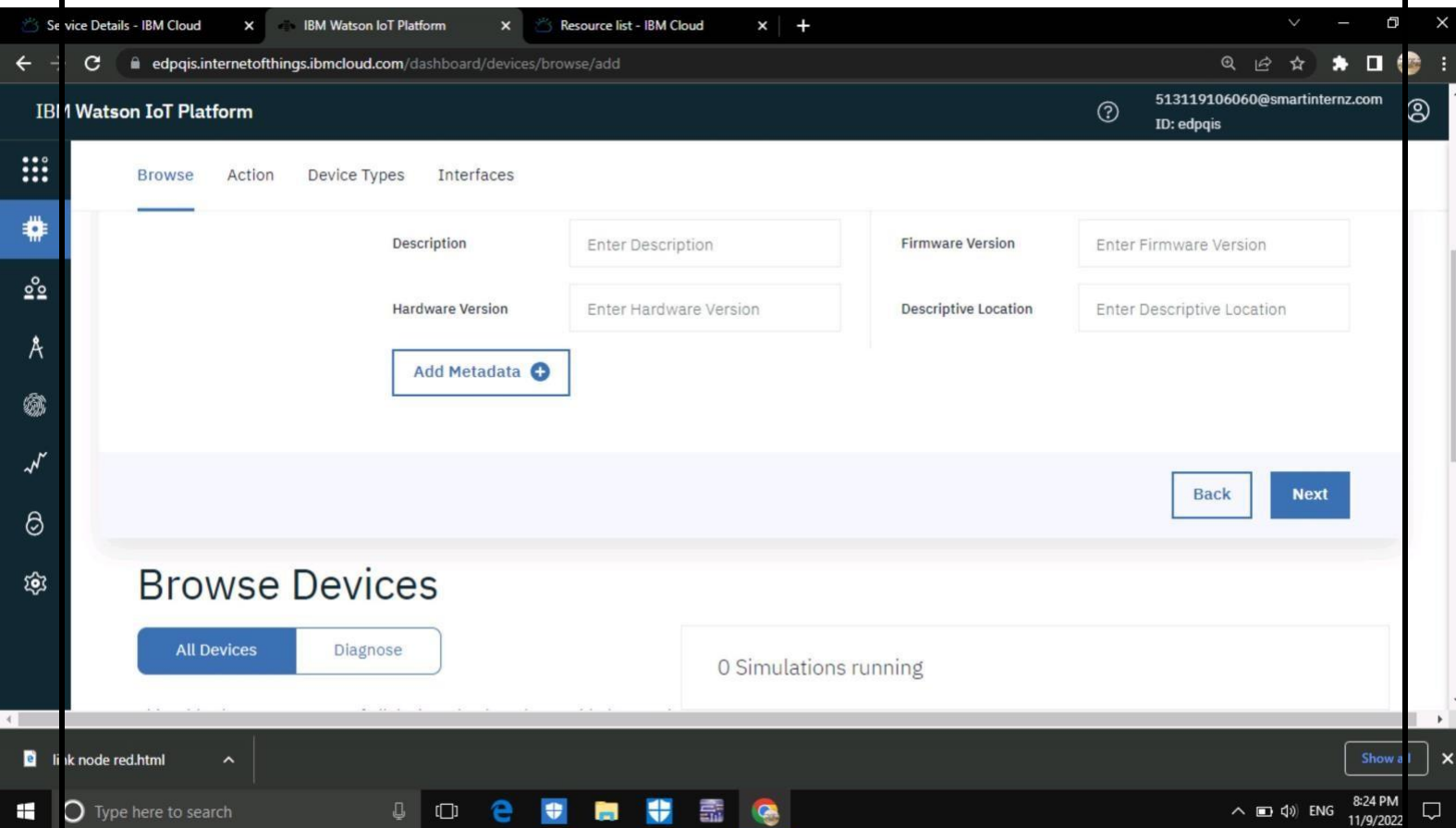
12345

0 Simulations running

link node red.html

Type here to search

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11/9/2022



Service Details - IBM Cloud

IBM Watson IoT Platform

Resource list - IBM Cloud

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edpqis.internetofthings.ibmcloud.com/dashboard/devices/browse/add

IBM Watson IoT Platform

513119106060@smartinternz.com
ID: edpqis

Browse

Action

Device Types

Interfaces

alphanumeric characters and symbols. The token is returned to you at the end of the device registration process.

symbols, which can include hyphens, underscores, and periods. Do not use repeated characters, dictionary words, user names, or other predefined sequences.

Authentication Token

12345678

Make a note of the generated token. Lost authentication tokens cannot be recovered. Tokens are encrypted before being stored.

Authentication token are encrypted before we store them.

Back

Next

0 Simulations running

Browse Devices

link node red.html

Type here to search

8:25 PM
11/9/2022

IBM Watson IoT Platform

Browse

Action

Device Types

Interfaces

Browse Devices

All Devices

Diagnose

This table shows a summary of all devices that have been added. It can be filtered, organized, 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
>	12345	Disconnected	arduino

Items per page 50 | 1-1 of 1 item

Simulations

Import/Export simulation

1/50 Simulations Running

Device Type

arduino

1 Event

1 Device

12345

1 x

Create Simulated Device

Use Registered Device

link node red.html

Type here to search

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IB App Development

Resource list - IBM Cloud

IBM Watson IoT Platform

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cloud.ibm.com/resources

IBM Cloud

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Resource list

Create resource

Name	Group	Location	Product	Status	Tags
Filter by name or IP address... Filter by group or org... Filter... Filter... Filter...					
Compute (1)					
Node RED CBSOU 2022-11-09	NP123 / NP	London	Node.js	Started	
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)					

ordered source link link node red.html Show a

Type here to search

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Resource list /

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

[Details](#) [Actions...](#)

Getting started

Overview

Runtime

Connections

Logs

API Management

Auto scaling

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

Instances

Health

100%

1/1 instance(s) are running

MB memory per instance

0

2048

256

Instances

1

-

+

Runtime cost

Current and estimated cost excludes connected services.

Connections (1)

[node-red-cbsou-2022--cloudant-1668008449559-74376](#)

Runtime

Node.js

256

Total MB allocation

1.75 GB still available

FreeUsed

node-red-cbsou-2022-11-09.eu-gb.mybluemix.net

node-red-cbsou-2022-11-09.eu-gb.mybluemix.net

link node red.html

Show all

Type here to search

9:29 PM 11/9/2022

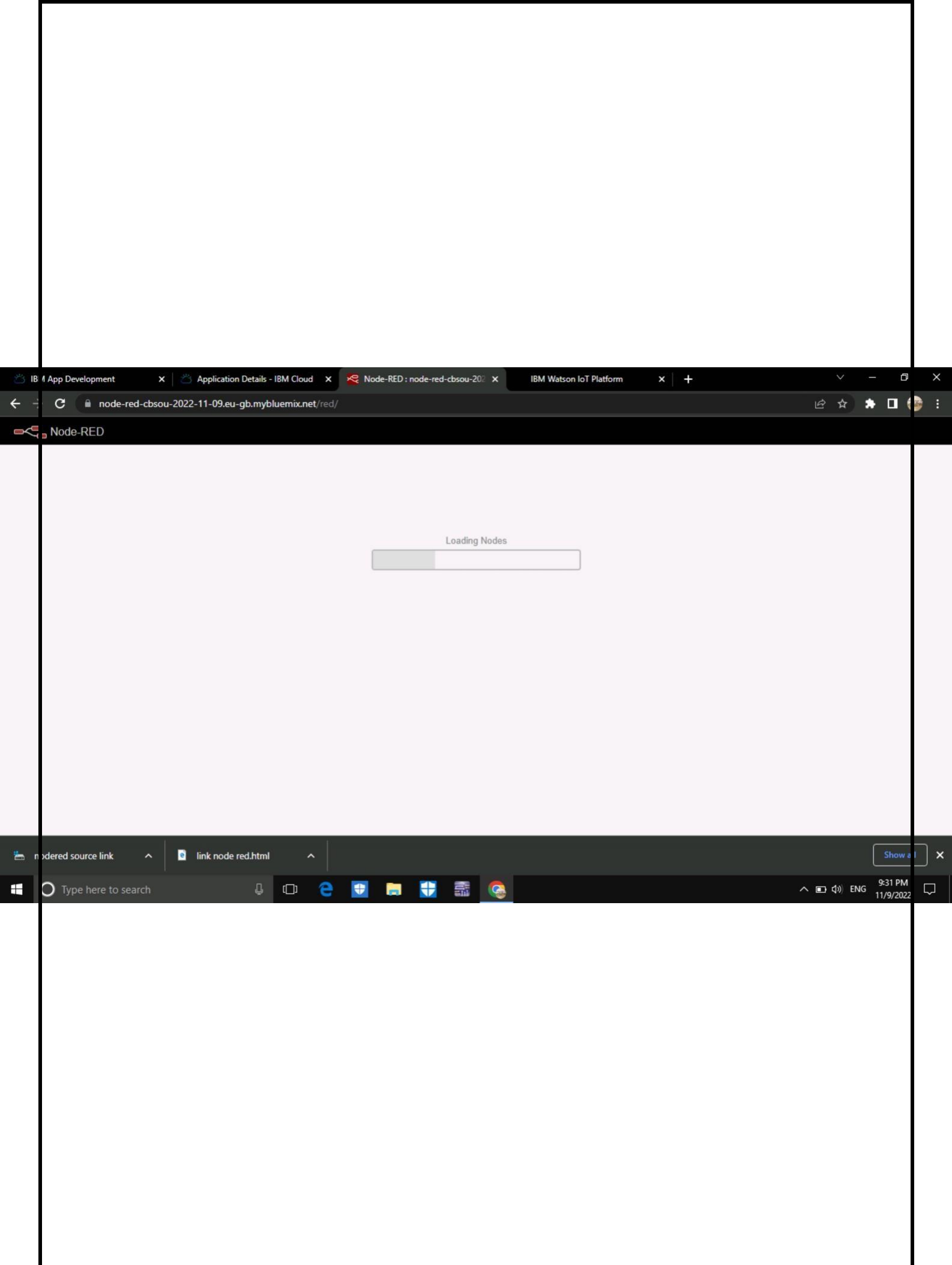
Secure your Node-RED editor

☐ 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



IBM App Development x Application Details - IBM Cloud x Node-RED : node-red-cbsou-20: x IBM Watson IoT Platform x +

node-red-cbsou-2022-11-09.eu-gb.mybluemix.net/red/#flow/8d920d308b446351

Node-RED

Flow 1

inject

debug

complete

catch

status

link in

link call

link out


comment

function

msg payload

Flow 1

Flow "8d920d308b446351"

Hold down  when you click on a node to also select all of its connected nodes

ordered source link link node red.html Show a

Type here to search

9:31 PM 11/9/2022