

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

The screenshot shows the IBM Cloud Dashboard interface. At the top, there's a navigation bar with the IBM Cloud logo, a search bar, and links for Catalog, Manage, and the user's account (sumathi M's Account). A user profile dropdown menu is open on the right, showing options like Profile, Log in to CLI and API, Privacy, Change theme, and Log out. The main content area is titled 'Dashboard' and features a 'For you' section with five cards: '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), 'Explore IBM Cloud Shell' (Try a command-driven approach for creating, developing, and deploying a web project), 'Create and deploy an application' (Browse our starter kits, and then select one to jump start the process to create and deploy your app.), and 'Visit the catalog' (Explore our catalog to find services and software for your business solutions). Each card has a 'Getting started' button and a time estimate. Below this, there are three sections: 'User access' (Manage users), 'News' (View all), and 'Planned maintenance' (View all). The 'News' section includes a link to 'All About IBM Storage's Price and Supply Guarantee' and a date 'IBM Tech Now: November 7, 2022'.

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.

Explore IBM Cloud Shell
Try a command-driven approach for creating, developing, and deploying a web project.

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

Visit the catalog
Explore our catalog to find services and software for your business solutions.

Recommended 10 min Getting started 2 min Getting started 5 min Getting started 1 min Getting started

User access Manage users

News View all

Planned maintenance View all

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

All About IBM Storage's Price and Supply Guarantee

IBM Tech Now: November 7, 2022

Resource list - IBM Cloud

cloud.ibm.com/resources

IBM Cloud

Search resources and products...

Catalog

Manage

NETHAJI PM's Account

Create resource

Resource list

Name	Group	Location	Product	Status	Tags
Filter by name or IP address...	Filter by group or org...	Filter...	Filter...	Filter...	Filter...
Compute (0)					
Containers (0)					
Networking (0)					
Storage (0)					
AI / Machine Learning (0)					
Analytics (0)					
Blockchain (0)					
Databases (0)					
Developer tools (0)					
Logging and monitoring (0)					
Migration (0)					

Catalog - IBM Cloud

cloud.ibm.com/catalog

IBM Cloud

Search resources and products...

Catalog

Manage

NETHAJI PM's Account

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)

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

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

Alphabetically

Grid View

List View

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 •

https://cloud.ibm.com/developer/appservice/starter-kits/59c9d5bd-4d31-3611-897a-f94eea80dc9f/nodered

Type here to search

7:59 PM 11/9/2022

IBM App Development

cloud.ibm.com/developer/appservice/create-app?starterKit=59c9d5bd-4d31-3611-897a-f94eea80dc9f&defaultLanguage=undefined

IBM CloudSearch resources and products...CatalogManageNETHAJI PM's Account

Tags

Examples: env:dev, version:1

Platform

☒ Node.js

Service details

Cloudant

Region

Sydney

Resource group

Default

Pricing plan

Lite

[Pricing details](#) [Terms](#)

Cancel

Create

ASK A QUESTION

Type here to search

8:00 PM11/9/2022

IBM App Development

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

IBM Cloud

Search resources and products...

Catalog

Manage

NETHAJI PM's Account

?

App name

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

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

Type here to search

8:01 PM 11/9/2022

IBM App Development

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

IBM Cloud

Search resources and products...

Catalog

Manage


NETHAJI PM's Account

?

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

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

Type here to search

8:01 PM 11/9/2022

IBM App Development

IBM Cloud Account

+

cloud.ibm.com/account/cloud-foundry

Search resources and products...CatalogManageNETHAJI PM'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

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
11/9/2022

IBM App Development

IBM Cloud Account

+

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

IBM Cloud

Search resources and products...

CatalogManageNETHAJI PM'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 / 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

Type here to search

ENG8:02 PM11/9/2022

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

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

ENG

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...

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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.

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

ASK A QUESTION

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...

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Manage

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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.

Type here to search

8:13 PM

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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...

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Manage

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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

<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.

ASK A QUESTION

Show all

link node red.html

Type here to search

8:15 PM

11/9/2022


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

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

IBM Cloud

Search resources and products...

Catalog Manage NETHAJI PM'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.

Create

About

Type
Service

Provider
IBM

Last updated
08/15/2022

Category
Internet of Things

Compliance
IAM-enabled

Location
Frankfurt
London
Dallas
Washington DC

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

Free

Location: London

Plan: Lite

Service name: Internet of Things Platform-hx

Resource group: Default

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

Create

Add to estimate

link node red.html

Show all

Type here to search

ENG

8:16 PM

11/9/2022

Service Details - IBM Cloud

Cloud Foundry - IBM Cloud

+

cloud.ibm.com/services/iotf-service/crn%3Av1%3Abluemix%3Apublic%3Aaio%3Aeu-gb%3Aa%2F9c9bda338842496faa4d25bdea593c83%3Aa8c4b50...

Search resources and products...

Catalog

Manage

NETHAJI PM's Account

?

Resource list /

Internet of Things Platform-hx

Active

Add tags

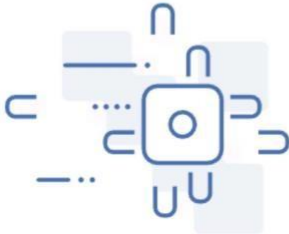
Details

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 IBM Watson IoT Platform.

Non-Production

The Non-Production service plan is a full-featured, fully-integrated offering that enables you to protect your IoT data.

Production

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

link node red.html

Type here to search

8:16 PM 11/9/2022

Service Details - IBM Cloud

IBM Watson IoT Platform

Resource list - IBM Cloud

+

internetofthings.ibmcloud.com

?

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

edpqis (ID edpqis)
Bluemix Free

Sign out

Cookie Preferences

IBM Watson IoT Platform

Collect data from

and make value from it

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

link node red.html

Show all

Type here to search

8:20 PM
11/9/2022

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

<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.

+ Create simulation

link node red.html

Type here to search

8:20 PM

11/9/2022

ENG

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

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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

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

<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

Schedule1 Every Minute

PayloadSpecify 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

Type here to search

8:21 PM 11/9/2022

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

<input type="checkbox"/>	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	<input type="checkbox"/>	
> Device Type arduino	1 Event	<input checked="" type="checkbox"/>	

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

Show all

8:22 PM 11/9/2022

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 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

Show all

8:22 PM

11/9/2022

Service Details - IBM Cloud

IBM Watson IoT Platform

Resource list - IBM Cloud

+

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

IBM Watson IoT Platform

513119106060@smartinternz.com
ID: edpqls

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

8:24 PM
11/9/2022

Service Details - IBM Cloud

IBM Watson IoT Platform

Resource list - IBM Cloud

+

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

IBM Watson IoT Platform

513119106060@smartinternz.com
ID: edpqis

Browse

Action

Device Types

Interfaces

Description

Enter Description

Firmware Version

Enter Firmware Version

Hardware Version

Enter Hardware Version

Descriptive Location

Enter Descriptive Location

Add Metadata +

Back

Next

Browse Devices

All Devices

Diagnose

0 Simulations running

link node red.html

Type here to search

8:24 PM
11/9/2022

IBM App Development

Resource list - IBM Cloud

IBM Watson IoT Platform

+

cloud.ibm.com/resources

IBM Cloud

Search resources and products...

Catalog

Manage

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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)					

nodered source link link node red.html Show all

Type here to search

9:28 PM 11/9/2022

Details Actions...

Overview

Connections

Connections

Logs

API Management

Autoscaling

Instances

Health

100%

1/1 instance(s) are running

MB memory per instance

©

2048

Edit

Runtime

Node.js

256

Total MB allocation

1.75 GB still available ⓘ

Free Used

Runtime cost


Current and estimated cost excludes connected services.

Connections (1)

node-red-cbsou-2022--cloudant-1668008449559-74376

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

 [nodered source link](#)

 [link node red.html](#)

[Show all](#)

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

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

filter nodes

common

- inject
- debug
- complete
- catch
- status
- link in
- link call
- link out
- comment

function

function

Flow 1

Hello Node-RED

msg.payload

info


Search flows

Flows

- Flow 1
- Subflows
- Global Configuration Nodes

Flow 1

Flow "8d920d308b446351"

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

nodored source link link node red.html Show all x

Type here to search

9:31 PM 11/9/2022