

<b>Project Name</b>	<b>Gas leakage and monitoring system</b>
<b>Team ID</b>	<b>PNT2022TMID19711</b>
<b>Date</b>	<b>16.11.2022</b>

## CREATE AND CONFIGURE IBM CLOUD SERVICES

### 2,Create Node-RED Service

IBM Cloud

Search resources and products...

Catalog Manage Jambukeswaran S's Ac...

Catalog / Create app /

# Node-RED

About Create

**Details**

Author IBM  
Updated 2/11/2020  
Type Starter kit

Source code

GitHub

Helpful links

Terms

Tutorial

## Overview

This starter kit provides a pre-configured Node-RED application, including a Cloudant service to store the application flow configuration. Add services, generate and download the code, use the IBM Cloud Developer Tools CLI to run and debug locally, then deploy to Cloud Foundry or a DevOps Pipeline.

This starter kit will help you

- Generate an application with Node-RED
- Generate an application with files for deploying to Cloud Foundry or a DevOps Pipeline
- Connect to provisioned services

What's included?

Cloudant

View docs View API reference

ASK A QUESTION

IBM Cloud

Search resources and products...

Q

Catalog

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Jambukeswaran S's Ac...

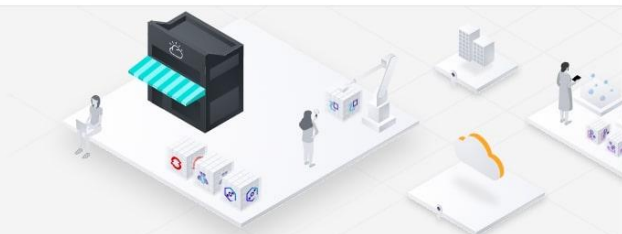
?

Sell on IBM Cloud

Catalog settings

# Catalog

Q Search the catalog...



Category

^

Recommended products (6)

Compute (30)

Containers (9)

Networking (29)

Storage (19)

AI / Machine Learning (17)

Analytics (10)

Viewing 206 products

Alphabetically

Grid view

Analytics Engine

By IBM

Submit your Apache Spark applications as needed and customize the Spark runtimes to satisfy the requirements of your application.

AnonTech ViziVault Platform

By Anon Technology, Inc.

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

API Connect

By IBM

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

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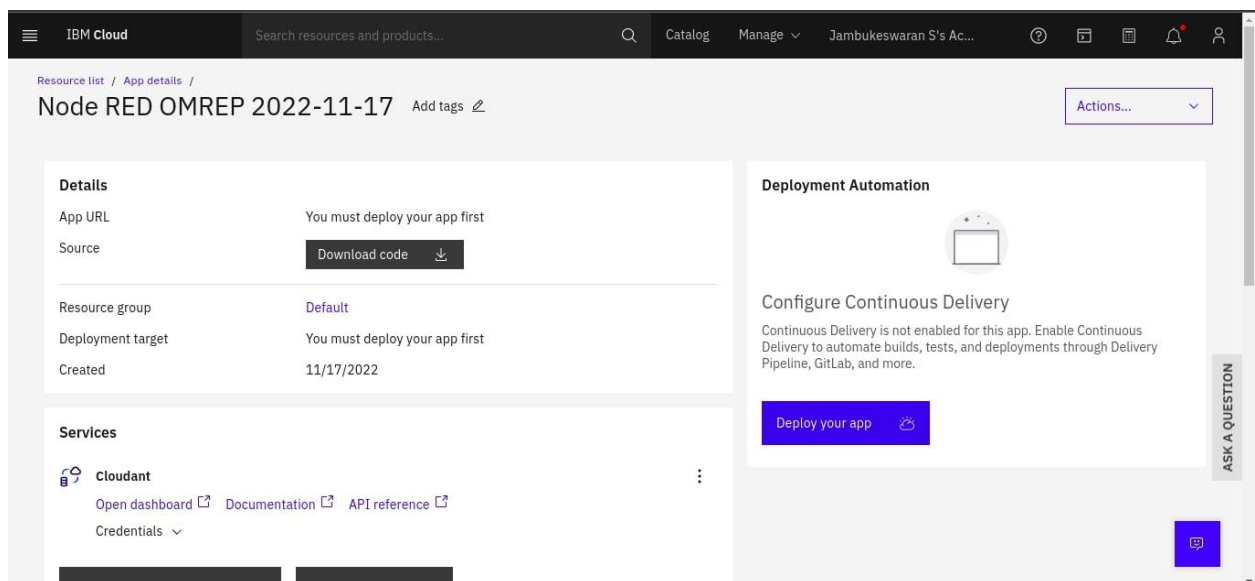
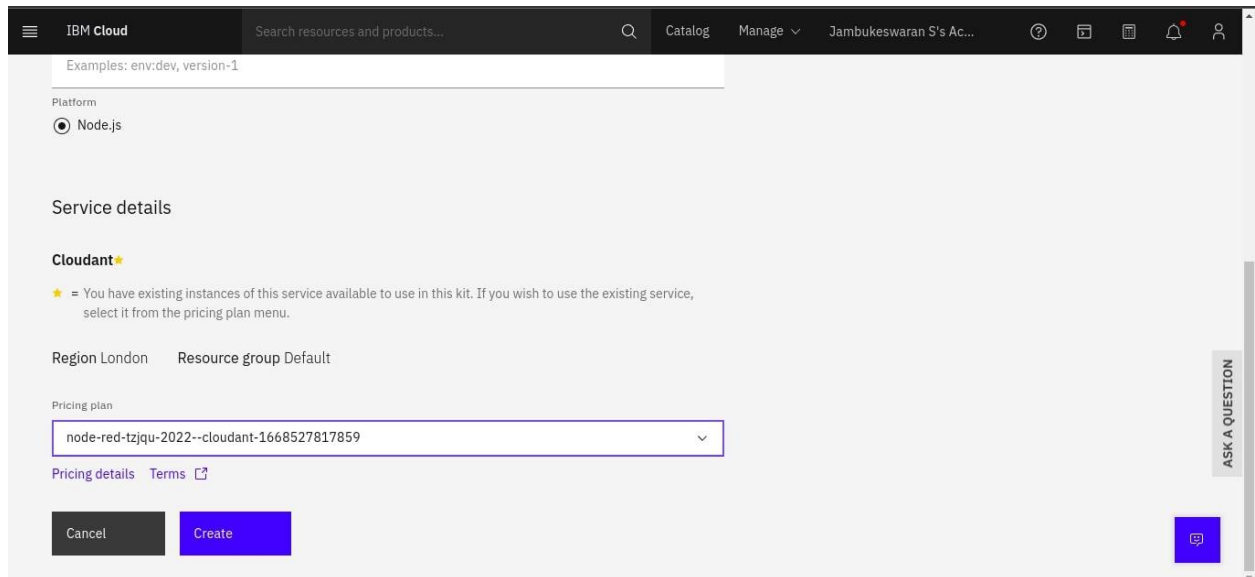
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Resource list / App details /

Node RED OMREP 2022-11-17


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.

**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.

ASK A QUESTION

IBM Cloud

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?

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

Sydney

Organization

Jambu

Space

jambu

Host

node-red-omrep-2022-11-17

Domain

au-syd.mybluemix.net

Cancel

Next

ASK A QUESTION

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Node RED OMREP 2022-11-17

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

NodeREDOMREP2022-11-17

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

Region

Sydney

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

IBM Cloud

Search resources and products...

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Details

App URL

You must deploy your app first

Source

<https://au-syd.git.cloud.ibm.com/jambukeswaran.19EC038/NodeRE...>

Resource group

Default

Deployment target

You must deploy your app first

Created

11/17/2022

Services

Cloudant

Open dashboard

Documentation

API reference

Credentials

Connect existing services

Create service

Deployment Automation

Name

NodeREDOMREP2022-11-17

Location

Sydney

Tool integrations

Delivery Pipelines

Name

ci-pipeline

Status

No stages detected

Name

pr-pipeline

Status

No stages detected

ASK A QUESTION

IBM Cloud

Search resources and products...

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Toolchains / NodeREDOMREP2022-11-17 /

ci-pipeline Dashboard

Run pipeline

PipelineRuns

Definitions

Worker

Triggers

Environment properties

Other settings

Status: All

Trigger: All

Run

Status

#1 simple-hosted-pipeline-a1b34817-23a8-476e-8878-0f3af237059e

Running

Nov 17, 1:32 PM

7m 50s

Items per page: 251 - 1 items

1Page 1

ASK A QUESTION

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Resource list / App details /

Node RED OMREP 2022-11-17Add tags

Actions...

Details

App URLhttps://node-red-omrep-2022-11-17.au-syd.mybluemix.net

Sourcehttps://au-syd.git.cloud.ibm.com/jambukeswaran.19EC038/NodeRE...

Resource groupDefault

Deployment targetNode RED OMREP 2022-11-17

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Connect existing servicesCreate service

Deployment Automation

NameNodeREDOMREP2022-11-17

LocationSydney

Tool integrations

Delivery Pipelines

Nameci-pipeline


StatusSuccess

Namepr-pipeline

StatusNo stages detected

## Delivery Pipelines

Name [ci-pipeline](#)

Status  [Success](#)

Name [pr-pipeline](#)

Status  [No stages detected](#)

IBM Cloud

Search resources and products...

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Services

Cloudant

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

Credentials

Connect existing services

Getting started quickly


Configuring your app

To connect services and DevOps toolchains to your app, you need to connect services to your app.

1. Use the **Services** card to connect a service to your app.
2. If you want to view the code before your app is deployed, click **View code**.
3. Click **Deploy your app** in the **Deployment** card.
4. After the deployment begins, you can view the deployment progress in the **Deployment** card.

Add a service

Existing services

	Name	Service Offering	Plan
<input checked="" type="checkbox"/>	Internet of Things Platform-9h	Internet of Things Platform	

Previous

Done

IBM Cloud

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Node RED OMREP 2022-11-17

Actions...

Details

App URL

<https://node-red-omrep-2022-11-17.au-syd.mybluemix.net/>

Source

<https://au-syd.git.cloud.ibm.com/jambukeswaran.19EC038/NodeRE...>

Resource group

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Deployment target

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Internet of Things Platform

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Deployment Automation

Name

NodeREDOMREP2022-11-17

Location

Sydney

Tool integrations

Delivery Pipelines

Name

ci-pipeline

Status

Success

Name

pr-pipeline

Status

No stages detected

ASK A QUESTION

Node-RED

Flow 1

inject

debug

complete

catch

status

link in

link call

link out

comment

function

switch

change

range

Hello Node-RED!

msg.payload

Edit debug node

Delete

Cancel

Done

Properties

Output

msg.payload

To

debug window

system console

node status (32 characters)

Name

Name

Enabled

help

comment

complete

csv

debug

delay

function

debug

Displays selected message properties in the debug sidebar tab and optionally the runtime log. By default it displays msg.payload, but can be configured to display any property, the full message or the result of a JSONata expression.

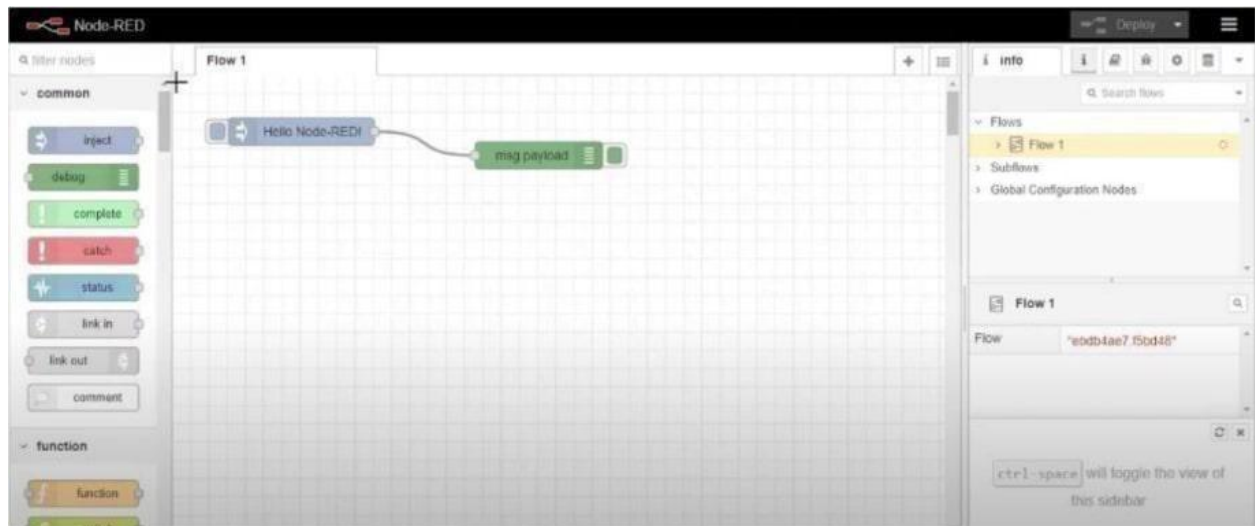
Details

The debug sidebar provides a structured view of the messages it is sent, making it easier to understand their structure.

JavaScript objects and arrays can be collapsed and expanded as required. Buffer objects can be displayed as raw data or as a string if possible.

Alongside each message, the debug sidebar includes information about the time the message was received. By default, the time is





## RESULT:

Successfully created a Node-RED service on IBM Cloud