

# Create Node-RED Service

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Team ID	PNT2022TMID10501
Project Name	GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

## Aim:

To create a web application, create a Node-RED service.

## Steps to be followed:

Step 1: Navigated to the App creation page.

The screenshot shows the 'Create app' page for Node-RED in the IBM Cloud Catalog. The page has a breadcrumb 'Catalog / Create app /' and a title 'Node-RED'. There are two tabs: 'About' (selected) and 'Create'. The 'About' tab contains a sidebar with 'Details', 'Source code', 'Helpful links', and 'Tutorial'. The main content area has an 'Overview' section with a description of the starter kit, a list of tasks it helps with, and a 'What's included?' section featuring the Cloudant logo and links to 'View docs' and 'View API reference'. A 'Get started' button is at the bottom left. A vertical 'ASK A QUESTION' button is on the right. An 'Activate Windows' watermark is at the bottom right.

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**  
Free to start [View pricing](#) [View docs](#) [View API reference](#)

[Get started](#)

ASK A QUESTION

Activate Windows  
Go to Settings to activate Windows

## Step 2: Entered project details and clicked on create

This screenshot shows the 'Create new resource' page in the Azure portal for a Node.js application. The 'Resource group' is set to 'Default'. The 'Tags' section has a text input with the example 'env:dev, version-1'. The 'Platform' is set to 'Node.js'. Under 'Service details', the 'Cloudant' service is selected. A note indicates that existing instances can be used. The 'Region' is 'Frankfurt' and the 'Resource group' is 'Default'. The 'Pricing plan' is set to 'node-red-1def1-2022--cloudant-1666683139018'. There are 'Cancel' and 'Create' buttons at the bottom. An 'Activate Windows' watermark is visible in the bottom right corner.

Resource group  
Default

Tags ⓘ  
Examples: env:dev, version-1

Platform  
☒ Node.js

Service details

Cloudant ⓘ

\* You have existing instances of this service available to use in this kit. If you wish to use the existing service, select it from the pricing plan menu.

Region Frankfurt Resource group Default

Pricing plan  
node-red-1def1-2022--cloudant-1666683139018

Pricing details Terms

Cancel Create

Activate Windows  
Go to Settings to activate Windows

ASK A QUESTION

## Step 3: Clicking on the “Deploy your App” Button.

This screenshot shows the 'Node RED QHNJV 2022-10-26' app details page in the Azure portal. The page is divided into three main sections: 'Details', 'Deployment Automation', and 'Getting started quickly'. The 'Details' section shows the app URL, source code download link, resource group, deployment target, and creation date. The 'Deployment Automation' section shows a 'Deploy your app' button. The 'Getting started quickly' section provides a list of steps for configuring the app. An 'ASK A QUESTION' button is visible on the right side.

Resource list / App details /  
Node RED QHNJV 2022-10-26 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 10/26/2022

**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.

Deploy your app

**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](#). [Go to Settings to activate Windows](#)
5. If you make any changes to your app, be

ASK A QUESTION

Step 4: Setting up the environment and deploying the app.

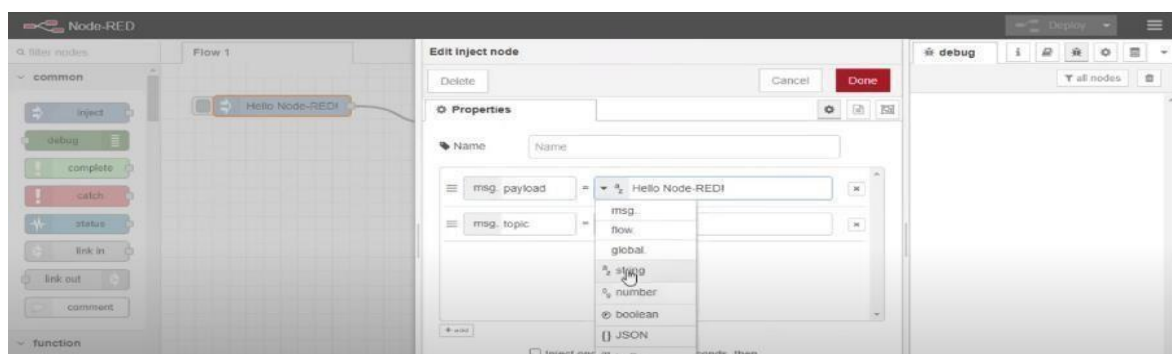
The screenshot shows the IBM Cloud Foundry deployment wizard. At the top, there is a notification: "IBM Cloud Foundry Public is deprecated. Learn more". Below this, the "IBM Cloud API key" field is visible. The "Number of instances" is set to 1. The "Memory allocation per instance" is set to 64 MB. The "Region" is set to "Region", "Organization" is set to "Organization", and "Space" is set to "Space". The "Host" is set to "node-red-qhnyv-2022-10-26" and "Domain" is set to "No domain available". There are "Cancel" and "Next" buttons at the bottom left. On the right side, there is a "Steps" section with two steps: 1. Select the number of instances, memory allocation, region, org, and space. 2. Select the domain and provide a host name. There is also an "ASK A QUESTION" button on the far right.

Step 5: Successfully deployed the app.

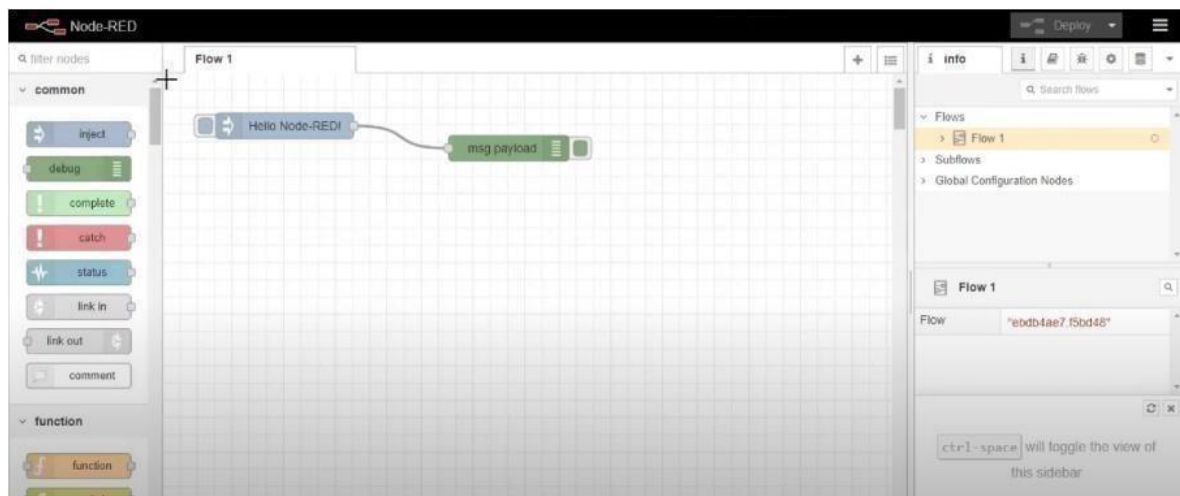
## Delivery Pipelines

Name	ci-pipeline
Status	Success
Last input	Last commit by IBM Cloud DevOps Services (7 minutes ago) Clone from zip

Step 6: Dragged and dropped components into the editor.



Step 7: Editing some values of the properties.



Step 8: Successfully deployed the app.



## **Result:**

Successfully created a Node RED service on IBM Cloud.