

# Create Node-RED Service

Date	3 NOVEMBER 2022
Team ID	PNT2022TMID18879
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 IBM Cloud 'Create app' page for Node-RED. The breadcrumb is 'Catalog / Create app /'. The page title is 'Node-RED'. There are two tabs: 'About' (selected) and 'Create'. The 'About' tab shows details about the starter kit, including the author (IBM), update date (2/11/2020), and type (Starter kit). It also provides links to the source code on GitHub, helpful links, terms, and a tutorial. The 'Overview' section describes the starter kit as a pre-configured Node-RED application with a Cloudant service for configuration storage. It lists three steps: generating an application with Node-RED, generating files for deployment to Cloud Foundry or DevOps Pipeline, and connecting to services. A 'What's included?' section highlights the 'Cloudant' service, which is 'Free to start', with links to 'View docs' and 'View API reference'. A blue 'Get started' button is at the bottom left. An 'ASK A QUESTION' button is on the right. An 'Activate Windows' watermark is visible in the bottom right corner.

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' page for a new web app in the Azure portal. The 'Resource group' is set to 'Default'. The 'Tags' field has a placeholder 'Examples: 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+def1-2022--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+def1-2022--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 'App details' page for a Node.js web app. The breadcrumb is 'Resource list / App details /'. The app name is 'Node RED QHNJV 2022-10-26'. The 'Details' section shows 'App URL' (empty), 'Source' (with a 'Download code' button), 'Resource group' (Default), 'Deployment target' (empty), and 'Created' (10/26/2022). The 'Services' section shows 'Cloudant' with links to 'Open dashboard', 'Documentation', and 'API reference', and a 'Credentials' dropdown. There are 'Connect existing services' and 'Create service' buttons. The 'Deployment Automation' section shows 'Configure Continuous Delivery' with a 'Deploy your app' button. A 'Getting started quickly' sidebar on the right provides a 5-step guide for configuring the app. An 'Activate Windows' watermark is visible in the bottom right corner.

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.

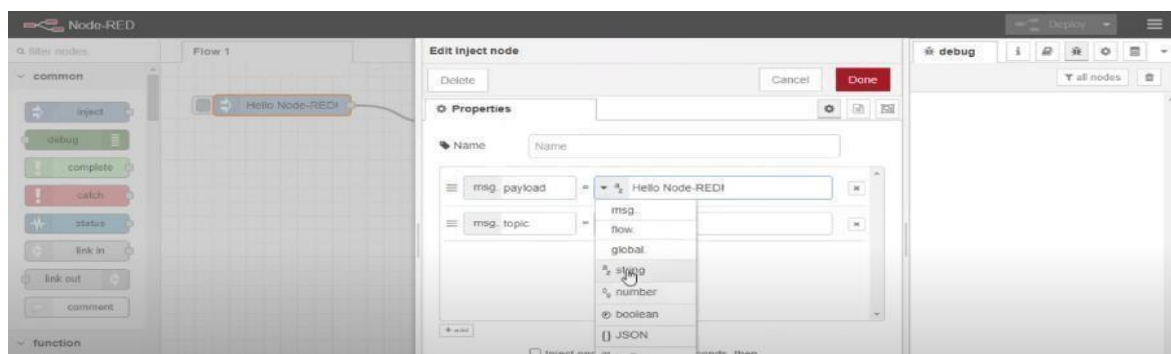
The screenshot shows the IBM Cloud Foundry console interface for creating a new application. At the top, there is a notification banner stating "IBM Cloud Foundry Public is deprecated." with a "Learn more" link. Below this, the "IBM Cloud API key" is entered in a text field, followed by a "New +" button. The "Number of instances" is set to 1. The "Memory allocation per instance" is shown as a slider from 64 MB to 2000 MB, with a value of 256 MB selected. The "Region", "Organization", and "Space" are each shown in a dropdown menu. The "Host" field contains "node-red-ghnjv-2022-10-26" and the "Domain" field shows "No domain available". At the bottom left are "Cancel" and "Next" buttons. On the right side, there is a "Steps" section with two instructions: "1. Select the number of instances, memory allocation, region, org, and space." and "2. Select the domain and provide a host name." An "ASK A QUESTION" button is located on the far right. At the bottom right, there is an "Activate Windows" watermark and a "Go to Settings to activate Windows" link.

Step 5: Successfully deployed the app.

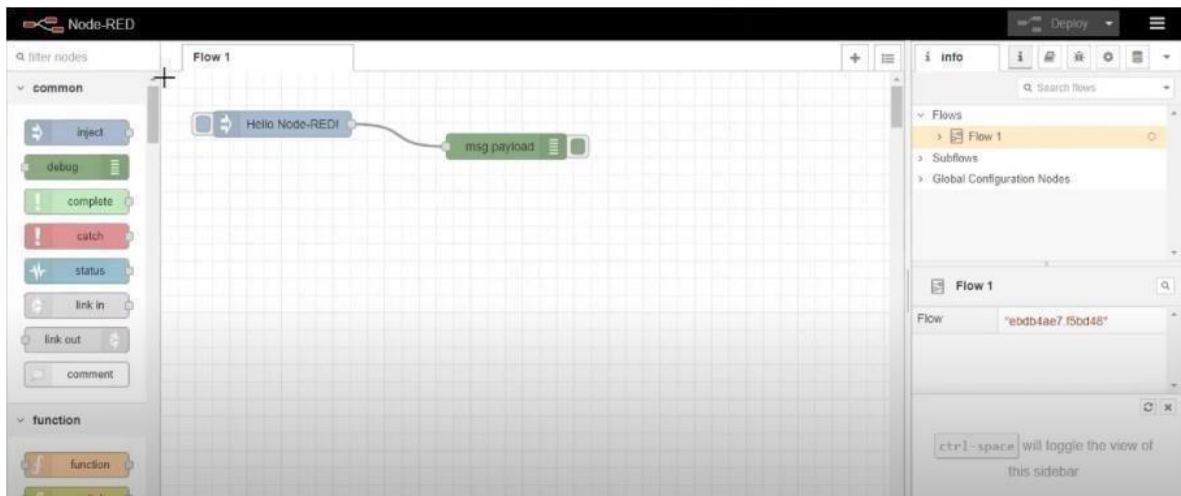
## Delivery Pipelines

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.