

# Create Node-RED Service

Date	3 NOVEMBER 2022
Team ID	PNT2022TMID18424
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 Catalog interface for creating a new application. The breadcrumb trail at the top reads 'Catalog / Create app /'. The main heading is 'Node-RED'. Below this, there are two tabs: 'About' (selected) and 'Create'. The 'About' tab is active, displaying the following content:

- 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](#)

At the bottom of the 'About' tab, there is a blue button labeled 'Get started'.

On the right side of the page, there is a vertical button labeled 'ASK A QUESTION'.

At the bottom right of the page, there is a Windows watermark that says 'Activate Windows Go to Settings to activate Windows' with a blue button.

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

The screenshot shows the 'Create new resource' page in the Azure portal for the Cloudant service. At the top, there's a 'Resource group' dropdown set to 'Default'. Below it is a 'Tags' section with a text input field containing 'Examples: env;dev, version-1'. The 'Platform' section has 'Node.js' selected. The 'Service details' section shows 'Cloudant' with a note about existing instances. The 'Region' is set to 'Frankfurt' and the 'Resource group' is 'Default'. The 'Pricing plan' dropdown is set to 'node-red+defl-2022--cloudant-1666683139018'. At the bottom, there are 'Cancel' and 'Create' buttons. An 'Activate Windows' watermark is visible in the bottom right corner.

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

The screenshot shows the 'App details' page for a Node RED application. The title bar indicates 'Node RED QHNJV 2022-10-26' and 'Add tags'. The 'Details' section shows 'App URL' as 'You must deploy your app first', 'Source' as 'Download code', 'Resource group' as 'Default', 'Deployment target' as 'You must deploy your app first', and 'Created' as '10/26/2022'. The 'Services' section shows 'Cloudant' with links to 'Open dashboard', 'Documentation', and 'API reference', and a 'Credentials' dropdown. At the bottom, 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.

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

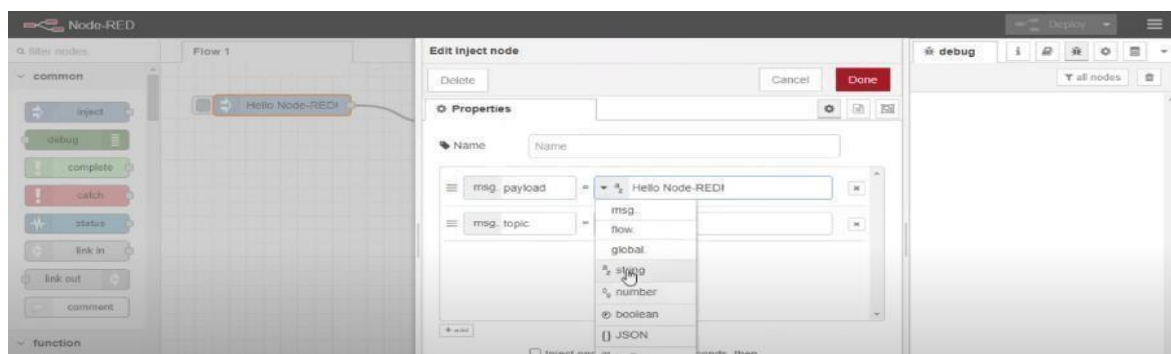
The screenshot shows the IBM Cloud Foundry console interface for configuring a new application. At the top, there is a notification banner stating "IBM Cloud Foundry Public is deprecated." with a "Learn more" link. Below this, the "IBM Cloud API key" is entered in a text field, followed by a "New +" 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-qhny-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." Below the steps is an "ASK A QUESTION" button. 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.

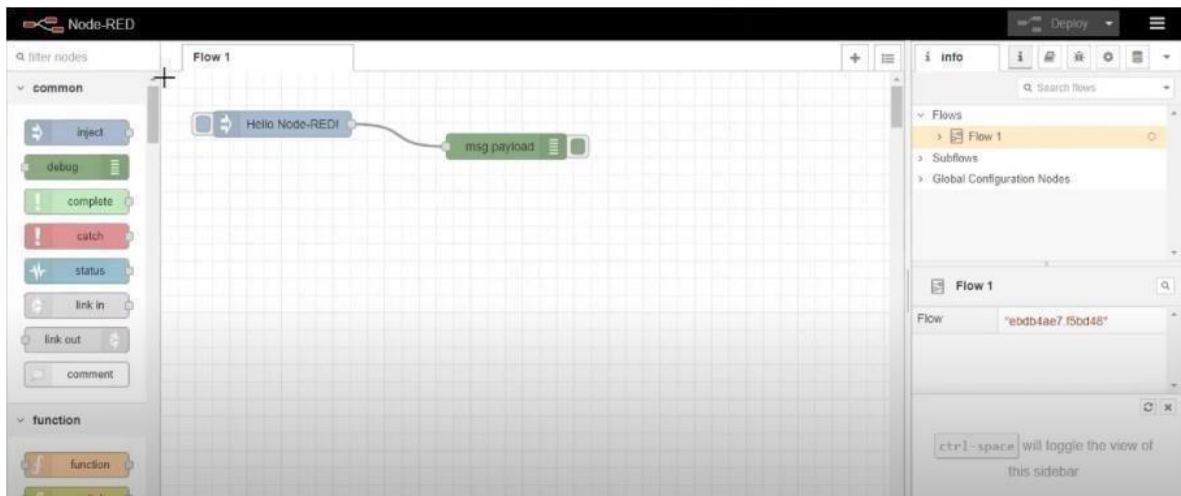
## Delivery Pipelines

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.