

# Create Node-RED Service

Date	13 NOVEMBER 2022
Team ID	PNT2022TMID24189
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 displays the IBM Cloud Developer console interface. The browser address bar shows the URL: `cloud.ibm.com/developer/appservice/create-app?starterKit=59c9d5bd-4d31-3611-897a-f94eea80dc9f&defaultLanguage=undefined`. The page title is "Node-RED". The left sidebar contains a navigation menu with "About" and "Create" tabs. The "About" tab is active, showing details about the Node-RED starter kit, including its author (IBM), update date (11/02/2020), and type (Starter kit). The main content area is titled "Overview" and describes the starter kit's purpose: to provide a pre-configured Node-RED application with a Cloudant service for storing application flow configuration. It also lists the steps to use the starter kit: generate an application with Node-RED, generate an application with files for deploying to Cloud Foundry or a DevOps Pipeline, and connect to provisioned services. A section titled "What's included?" shows a Cloudant service icon and links to "View docs" and "View API reference". The bottom of the page features a Windows taskbar with various application icons and system information like temperature (28°C) and time (9:40 PM, 17-11-2022).

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

The screenshot shows the IBM Cloud Developer console interface. The browser tabs include 'IBM', 'IBM-Project-29062-1660120513', and 'IBM App Development'. The URL is 'cloud.ibm.com/developer/appservice/create-app?starterKit=59c9d5bd-4d31-3611-897a-f94eea80dc9f&defaultLanguage=undefined'. The page title is 'Node-RED'. The 'Create' tab is selected. The 'App details' section contains the following fields:

- App name:** Node RED JWTAZ 2022-11-17
- Resource group:** Default
- Tags:** Examples: env:dev, version-1
- Platform:** Node.js

On the right side, there is a vertical 'ASK A QUESTION' button. At the bottom right, there is a blue 'Deploy your app' button. The Windows taskbar at the bottom shows the date as 17-11-2022 and the time as 9:41 PM.

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

The screenshot shows the IBM Cloud Developer console interface for the 'Node RED WPKLX 2022-11-14' app. The page title is 'Node RED WPKLX 2022-11-14'. The 'Details' section contains the following information:

- App URL:** You must deploy your app first
- Source:** Download code
- Resource group:** Default
- Deployment target:** You must deploy your app first
- Created:** 11/14/2022

The 'Services' section shows the 'Cloudant' service with links to 'Open dashboard', 'Documentation', and 'API reference'. There are buttons for 'Connect existing services' and 'Create service'.

On the right side, there is a vertical 'ASK A QUESTION' button. The 'Deployment Automation' section contains the following information:

- Configuration:** Configure Continuous Delivery
- Message:** Continuous Delivery is not enabled for this app. Enable Continuous Delivery to automate builds, tests, and deployments through Delivery Pipeline, GitLab, and more.
- Button:** Deploy your app

At the bottom right, there is a blue 'Deploy your app' button. The Windows taskbar at the bottom shows the date as 14-11-2022 and the time as 17:18.

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

Resource list / App details /


### Node RED WPKLX 2022-11-14


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 Kubernetes Service

Kubernetes is an open source platform for managing containerized workloads and services across multiple hosts, and offers management tools for deploying, automating, monitoring, and scaling containerized apps with minimal to no manual intervention. [Learn more.](#)

Before you begin


- One free Kubernetes cluster is available per account.
- If you don't have an available cluster, you must create one before continuing. Allow 10-20 minutes for the cluster to be provisioned. [Create cluster.](#)

ASK A QUESTION

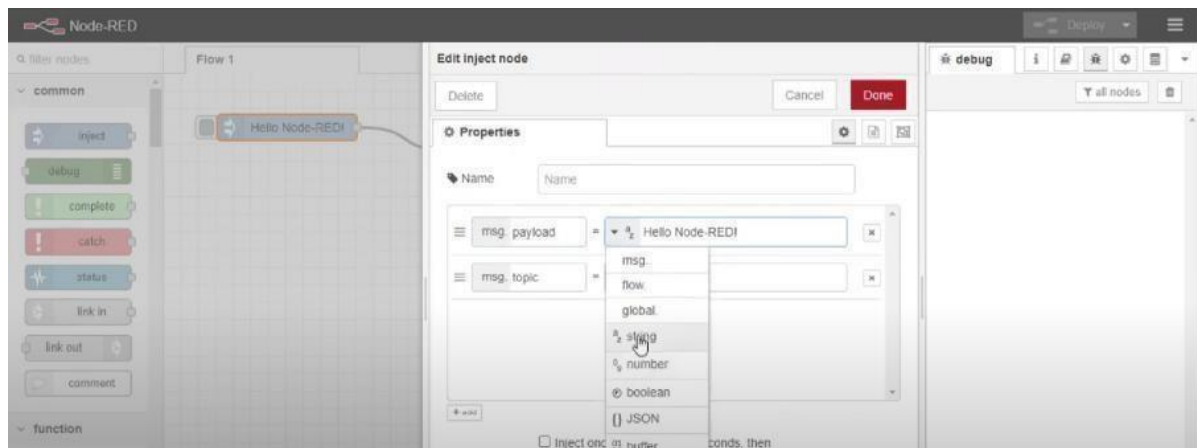
26°C Mostly cloudy    Search    ENG IN    17:20 14-11-2022

## Step 5: Successfully deployed the app.

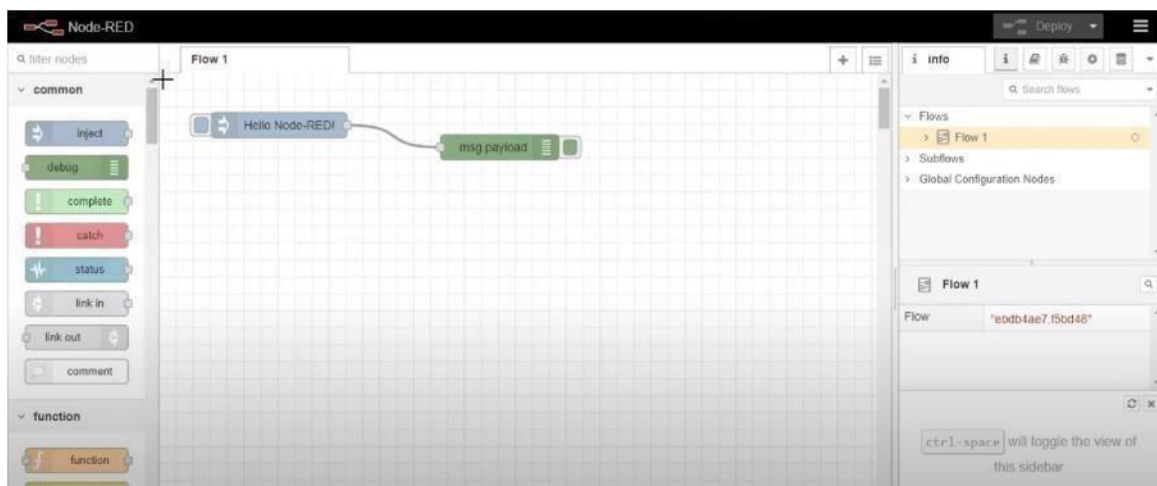
### Delivery Pipelines

Name	ci-pipeline <a href="#">↗</a>
Status	 Success <a href="#">↗</a>
Last input	Last commit by IBM Cloud DevOps Services (7 minutes ago) <a href="#">Clone from zip</a> <a href="#">↗</a>

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.