

Create Node-RED Service

Date	13 NOVEMBER 2022
Team ID	PNT2022TMID20267
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 a web browser window with multiple tabs open, including 'Welcome to Project', 'IBM', 'Getting Started', 'Sign in - Google', '(1) WhatsApp', 'IBM-Project-800', and 'IBM App Developer'. The active tab is 'IBM App Developer', showing the URL 'cloud.ibm.com/developer/appservice/create-app?starterKit=59c9d5bd-4d31-3611-897a-f94eea80dc9f&defaultLanguage=undefined'. The page header includes the IBM Cloud logo, a search bar, and navigation links for 'Catalog', 'Manage', and 'Vasupradha E's Account'. The main content area is titled 'Node-RED' and has two tabs: 'About' and 'Create'. The 'About' tab is selected, displaying 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, terms, and a tutorial. The 'Overview' section describes the starter kit as a pre-configured Node-RED application with a Cloudant service for storing flow configuration. It lists three steps: generating an application with Node-RED, generating an application with files for deployment to Cloud Foundry or a DevOps Pipeline, and connecting to provisioned services. A section titled 'What's included?' shows the Cloudant service as part of the starter kit, with links to view docs and API reference. The bottom of the page shows a Windows taskbar with various application icons and system status information like temperature (26°C) and time (17:15 on 14-11-2022).

Step 2: Entered project details and clicked on create

The screenshot shows the IBM Cloud Developer console with the 'Create App' form. The form includes fields for 'Resource group' (set to 'Default'), 'Tags' (with examples: env:dev, version-1), and 'Platform' (set to 'Node.js'). Below these is the 'Service details' section, which includes a 'Cloudant' service. A note states: '★ = 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.' At the bottom, there are dropdowns for 'Region' (set to 'Sydney') and 'Resource group' (set to 'Default'). A blue 'Create' button is visible on the right side of the form.

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

The screenshot shows the IBM Cloud Developer console with the 'Node RED WPKLX 2022-11-14' app details. The 'Details' section shows the 'App URL' and 'Source' (with a 'Download code' button). The 'Resource group' is 'Default', the 'Deployment target' is 'You must deploy your app first', and the 'Created' date is '11/14/2022'. The 'Services' section shows the 'Cloudant' service with links to 'Open dashboard', 'Documentation', and 'API reference'. A 'Deploy your app' button is visible on the right side of the page.

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

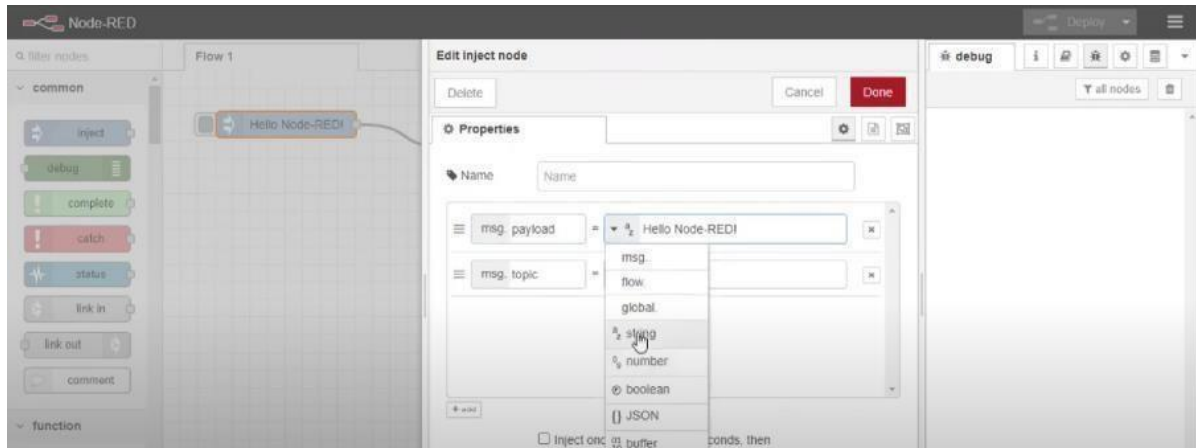
17:20 14-11-2022

Step 5: Successfully deployed the app.

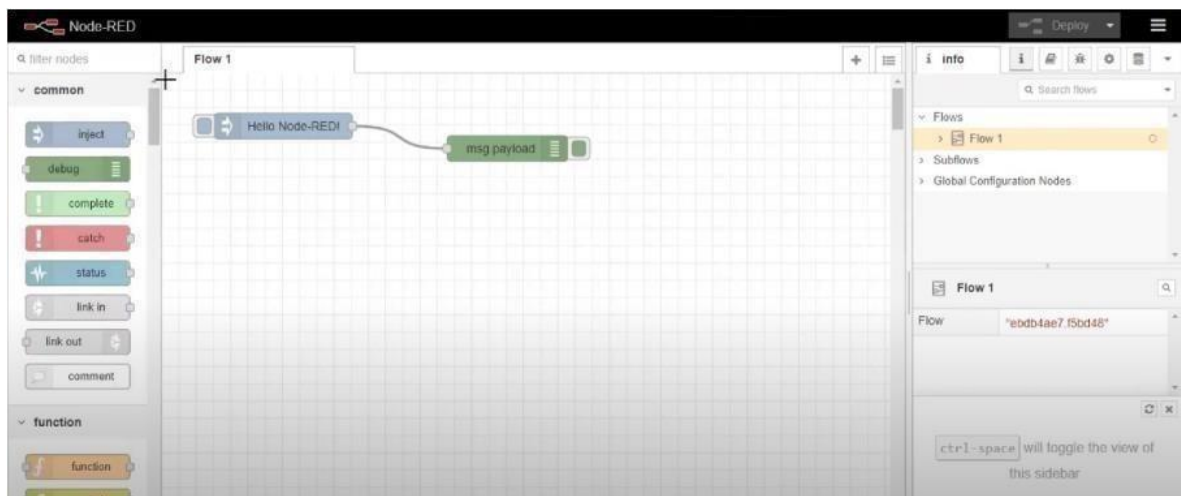
Delivery Pipelines

Name	ci-pipeline ↗
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.