

# Create Node-RED Service

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Team ID	PNT2022TMID07177
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. The active tab is 'IBM App Development', showing the 'Create app' page for Node-RED on the IBM Cloud Developer portal. The page URL is '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 the user's account (Vasupradha E's Account). The main content area is titled 'Node-RED' and has 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, 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 files for deployment to Cloud Foundry or DevOps Pipeline, and connecting to provisioned services. A 'What's included?' section 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 (26°C, Mostly cloudy, 17:15, 14-11-2022).

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

The screenshot shows the IBM Cloud Developer console for creating a new app. The browser tabs include 'Welcome to Project', 'IBM', 'Getting Started v...', 'Sign in - Google', '(1) WhatsApp', 'IBM-Project-800', and 'IBM App Developer'. The URL is [cloud.ibm.com/developer/appservice/create-app?starterKit=59c9d5bd-4d31-3611-897a-f94eea80dc9f&defaultLanguage=undefined](https://cloud.ibm.com/developer/appservice/create-app?starterKit=59c9d5bd-4d31-3611-897a-f94eea80dc9f&defaultLanguage=undefined). The form includes a 'Resource group' dropdown set to 'Default', a 'Tags' input field with examples 'env:dev, version-1', and a 'Platform' radio button selected for 'Node.js'. Below the form, the 'Service details' section shows 'Cloudant' with a star icon. A note explains that the star indicates existing instances. At the bottom, there are dropdowns for 'Region' (Sydney) and 'Resource group' (Default). A blue 'Create' button is visible on the right. The IBM Cloud header and a search bar are at the top. The footer shows a taskbar with various application icons and system status information like '26°C Mostly cloudy' and '17:15 14-11-2022'.

Accept the default name, or enter a value between 2 and 128 characters.

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

Sydney

Resource group

Default

ASK A QUESTION

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

The screenshot shows the IBM Cloud Developer console for an existing app named 'Node RED WPKLX 2022-11-14'. The browser tabs are the same as in the previous step. The URL is [cloud.ibm.com/developer/appservice/apps/7a80b3b5-5f47-4333-a0b9-b1d110930dd5](https://cloud.ibm.com/developer/appservice/apps/7a80b3b5-5f47-4333-a0b9-b1d110930dd5). The page header shows 'Node RED WPKLX 2022-11-14' with 'Add tags' and an 'Actions...' dropdown. The 'Details' section on the left shows 'App URL' (empty), 'Source' (with a 'Download code' button), 'Resource group' (Default), 'Deployment target' (empty), and 'Created' (11/14/2022). The 'Services' section shows 'Cloudant' with links to 'Open dashboard', 'Documentation', and 'API reference', and a 'Credentials' dropdown. At the bottom, there are buttons for 'Connect existing services' and 'Create service'. The 'Deployment Automation' section on the right has a 'Deploy your app' button. A note states 'Continuous Delivery is not enabled for this app. Enable Continuous Delivery to automate builds, tests, and deployments through Delivery Pipeline, GitLab, and more.' The IBM Cloud header and a search bar are at the top. The footer shows a taskbar with various application icons and system status information like '26°C Mostly cloudy' and '17:18 14-11-2022'.

Resource list / App details /

Node RED WPKLX 2022-11-14 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

11/14/2022

Services

Cloudant

Open dashboard Documentation API reference

Credentials

Connect existing services Create service

Deployment Automation

Deploy your app

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.

ASK A QUESTION

## 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

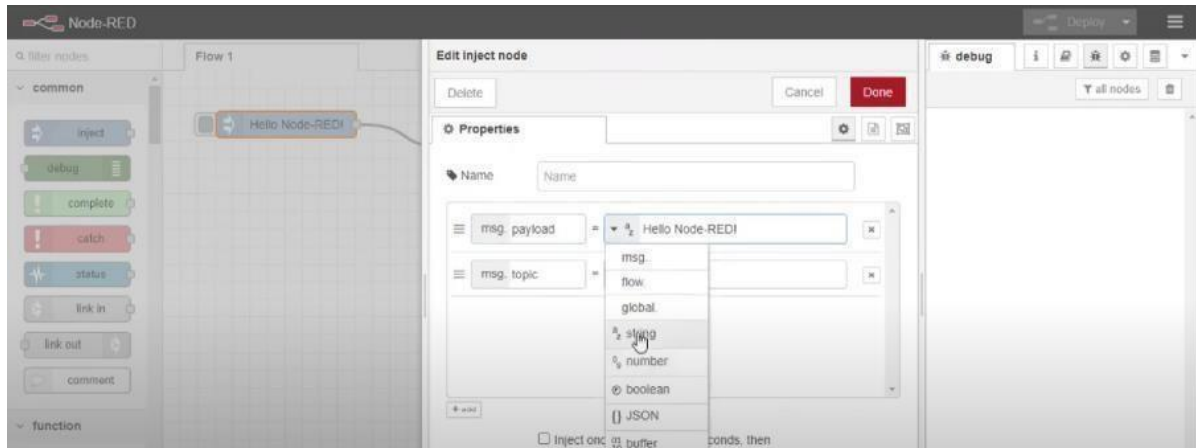
17:20 14-11-2022

## Step 5: Successfully deployed the app.

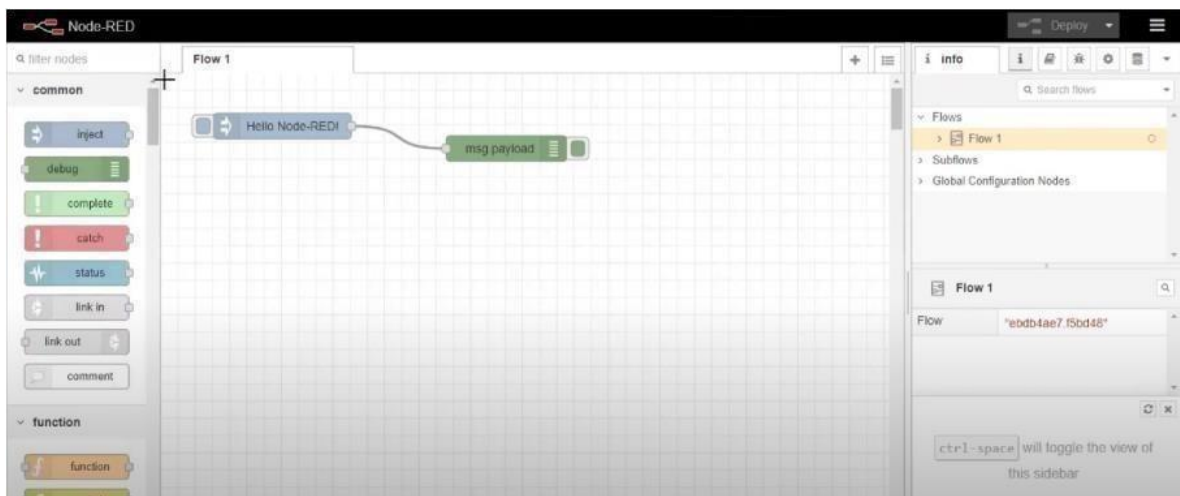
### Delivery Pipelines

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.