

Create Node-RED Service

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Team ID	PNT2022TMID05282
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 'Create app' page for Node-RED in the IBM Cloud Catalog. The page has a breadcrumb 'Catalog / Create app /' and a title 'Node-RED'. There are two tabs: 'About' (selected) and 'Create'. The 'About' tab contains a sidebar with 'Details', 'Source code', 'GitHub', 'Helpful links', 'Terms', and 'Tutorial'. The main content area has an 'Overview' section with a description of the starter kit, a list of tasks it helps with, and a 'What's included?' section featuring the 'Cloudant' service. A 'Get started' button is at the bottom left. A vertical 'ASK A QUESTION' button is on the right. An 'Activate Windows' watermark is at the bottom right.

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'. At the bottom, there are 'Cancel' and 'Create' buttons. 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 navigation shows 'Resource list / App details /'. The app name is 'Node RED QHNJV 2022-10-26'. The 'Details' section shows the 'App URL' and 'Source' (with a 'Download code' button). The 'Resource group' is 'Default' and the 'Deployment target' is 'You must deploy your app first'. The 'Created' date is '10/26/2022'. 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'. The 'Deployment Automation' section has 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](#).
5. If you make any changes to your app, be

Activate Windows
Go to Settings to activate Windows

ASK A QUESTION

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

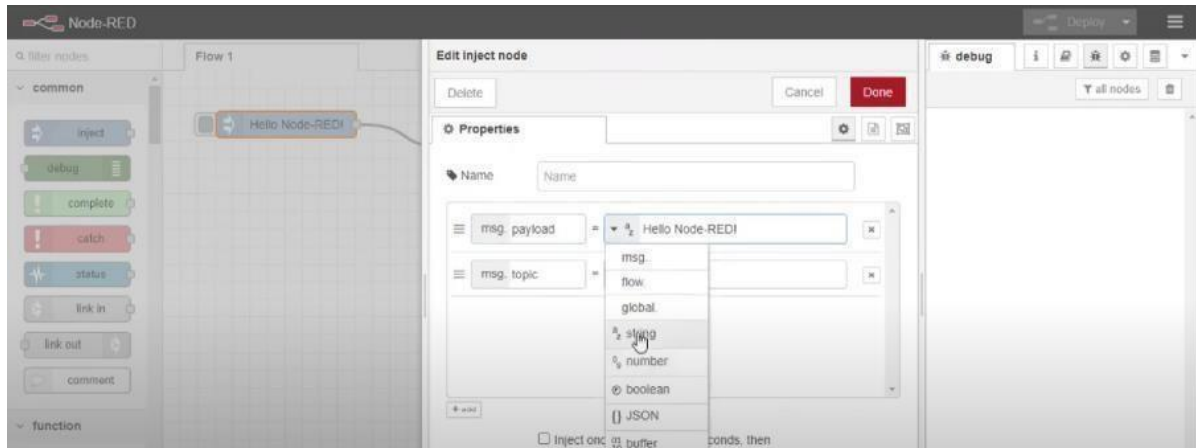
The screenshot shows the IBM Cloud Foundry deployment wizard. At the top, a dark banner states "IBM Cloud Foundry Public is deprecated." with a "Learn more" link. Below this, the "IBM Cloud API key" field is visible with a "New" button. The "Number of instances" is set to 1. The "Memory allocation per instance" is shown as a slider from 64 MB to 2000 MB, with a value of 256 MB selected. The "Region", "Organization", and "Space" dropdowns are all set to "Region". The "Host" field contains "node-red-qhny-2022-10-26" and the "Domain" field is "No domain available". At the bottom, there are "Cancel" and "Next" buttons. On the right side, a sidebar contains a "ASK A QUESTION" button and a "Steps" section with two numbered steps: 1. Select the number of instances, memory allocation, region, org, and space. 2. Select the domain and provide a host name. A "Activate Windows" watermark is visible in the bottom right corner.

Step 5: Successfully deployed the app.

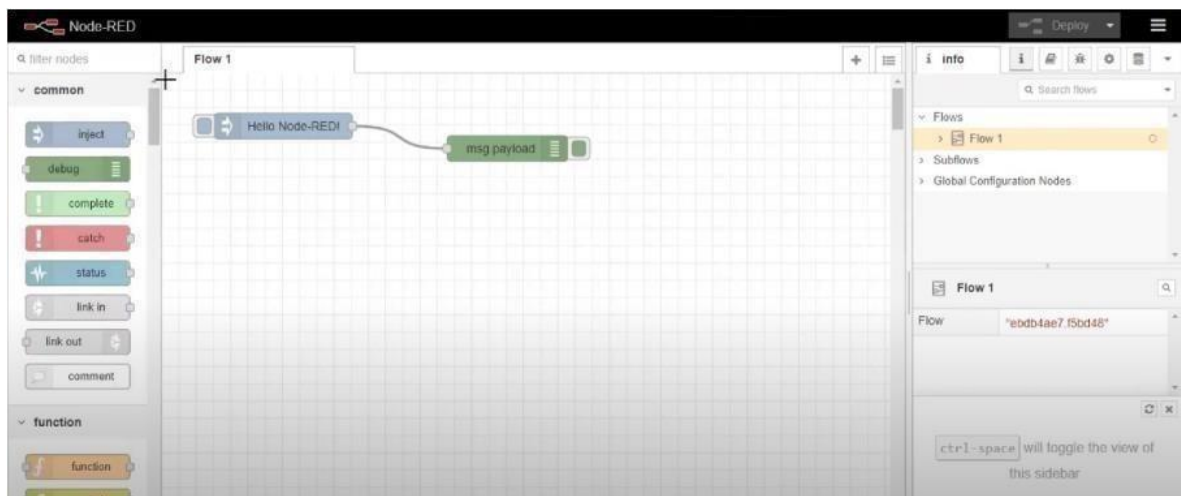
Delivery Pipelines

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.