

Create Node-RED Service

Date	19 November 2022
Team ID	PNT2022TMID38324
Project Name	Gas Leakage Monitoring and Alerting System

Aim:

To create a web application, create a Node-RED service.

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'. The address bar shows the URL: `cloud.ibm.com/developer/appservice/create-app?starterKit=59c9d5bd-4d31-3611-897a-f94eea80dc9f&defaultLanguage=undefined`. The page header is 'IBM Cloud' with a search bar and navigation links: 'Catalog', 'Manage', and 'Saranya G's Account'. The breadcrumb trail is 'Catalog / Create app /'. The main heading is 'Node-RED'. Below it, there are two tabs: 'About' (selected) and 'Create'. The 'About' tab contains a sidebar with 'Details' (Author: IBM, Updated: 11/2/2020, Type: Starter kit), 'Source code' (GitHub link), and 'Helpful links' (Terms, Tutorial). The main content area has an 'Overview' section stating: '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.' Below this is a section 'This starter kit will help you' with a bulleted list: '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'. At the bottom, there is a section 'What's included?'. The browser's taskbar at the bottom shows various application icons and system information: 26°C, 22:07, 18-11-2022.

Step 2: Entered project details and clicked on create

The screenshot shows the IBM Cloud Developer console interface. The browser tabs include 'Chat with mentor', 'IBM-EPBL/IBM-Project-16023-16', 'IBM-Project-3446-1658562278/P', 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'. There are two tabs: 'About' and 'Create', with 'Create' being the active tab. The 'App details' section includes a text input for 'App name' with the value 'Node RED BHURH 2022-11-18', a dropdown for 'Resource group' set to 'Default', and a 'Tags' section with examples like 'env:dev, version-1'. A blue 'ASK A QUESTION' button is on the right. The Windows taskbar at the bottom shows the date as 18-11-2022 and time as 22:07.

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

The screenshot shows the IBM Cloud Developer console interface for an existing app. The browser tabs are the same as in Step 2. The URL is cloud.ibm.com/developer/appservice/apps/2171f2a4-4ebb-4fc3-b3b3-b2328fbce43f. The page title is 'Node RED XKDAR 2022-11-18'. The 'Details' section shows 'App URL' as 'You must deploy your app first', 'Source' with a 'Download code' button, 'Resource group' as 'Default', 'Deployment target' as 'You must deploy your app first', and 'Created' as '18/11/2022'. The 'Services' section shows 'Cloudant' with links for 'Open dashboard', 'Documentation', and 'API reference', and 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 lists steps for configuring the app. The Windows taskbar at the bottom shows the date as 18-11-2022 and time as 22:31.

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

Chat with mentor | IBM-EPBL/IBM-Project-16023-16 | IBM-Project-3446-1658562278/P | IBM App Development

cloud.ibm.com/developer/appservice/apps/2171f2a4-4ebb-4fc3-b3b3-b2328fbc43f

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IBM Cloud | Search resources and products...

Resource list / App details / Node RED XKDAR 2022-11-18

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.

Code Engine IBM
Run your app, job, or container on a managed serverless platform. Auto-scale workloads, and pay only for the resources that you consume.

IBM Cloud API key
.....

Container registry region
Dallas

Container registry namespace
yhcmlovrkmpoapbtttkibmnc

New +

Type here to search

26°C | ENG | 22:31 | 18-11-2022

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.](#)

Steps

- Create an IBM Cloud API key, or select an existing one from a secrets store.
- Select the container registry region.

ASK A QUESTION

Step 5: Successfully deployed the app.

Chat with mentor | IBM-EPBL/IBM-Project-16023-16 | IBM-Project-3446-1658562278/P | IBM App Development

cloud.ibm.com/developer/appservice/apps/5203fccc-5d27-405e-bbb3-06c2bf83b915

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Resource list / App details / Node RED YCWAY 2022-11-15 | Add tags | Actions...

Details

App URL: <http://159.122.175.249:31595>

Source: <https://us-south.git.cloud.ibm.com/saranyaganesan302/NodeREDYCWAY2022-11-15>

Resource group: Default

Deployment target: mycluster-free

Created: 15/11/2022

Services

Cloudant

[Open dashboard](#) | [Documentation](#) | [API reference](#)

Credentials

Connect existing services + | Create service +

Deployment Automation

Name: NodeREDYCWAY2022-11-15

Location: Dallas

Tool integrations

Delivery Pipelines

Name: ci-pipeline | Status: Success

Name: pr-pipeline | Status: No stages detected

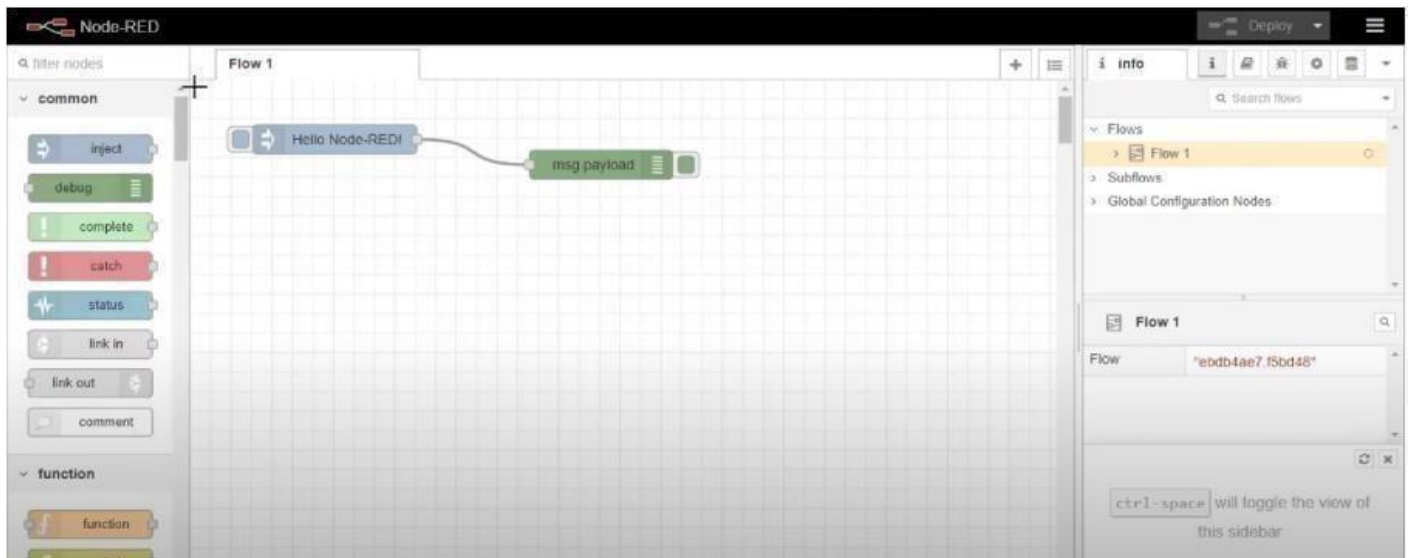
ASK A QUESTION

<https://cloud.ibm.com/docs/Cloudant>

Type here to search

25°C | ENG | 22:56 | 18-11-2022

Step 7: Editing some values of the properties.



Step 8: Successfully deployed the app.



Result:

Successfully created a Node RED service on IBM Cloud.