

Create a Node-RED Service

Date	15 November 2022
Team ID	PNT2022TMID39018
Project Name	Gas leakage monitoring and alerting system for industries

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 includes the IBM Cloud logo, a search bar, and navigation links for 'Catalog', 'Manage', and 'Siranjeevi K's Account'. The main content area is titled 'Node-RED' and has two tabs: 'About' (selected) and 'Create'. The 'About' tab contains the following information:

- 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 docs](#) [View API reference](#)
- Get started:** A blue button at the bottom left.

On the right side of the page, there is a vertical button labeled 'ASK A QUESTION'. The Windows taskbar at the bottom shows the search bar, task view button, and several application icons. The system tray on the right indicates the temperature is 30°C, it's hazy, and the time is 15:15 on 16-11-2022.

Sent Mail - siranjeevikumar452@ x IBM IoT-B11-5A1E (Evening Session)- x IBM App Development

cloud.ibm.com/developer/appservice/create-app?starterKit=59c9d5bd-4d31-3611-897a-f94eea80dc9f&defaultLanguage=undefined

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Catalog / Create app / Node-RED

About Create

App details

App nameNode RED FGZOO 2022-11-16Accept the default name, or enter a value between 2 and 128 characters.

Resource groupDefault

TagsExamples: env:dev, version-1

PlatformNode.js

Service details

Resource groupDefault

TagsExamples: env:dev, version-1

PlatformNode.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 London Resource group Default

Pricing plannode-red-bscrs-2022--cloudant-1664529947832

Pricing details Terms

Cancel Create

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Pricing details Terms

Cancel Create

ASK A QUESTION

Node RED FGZOO 2022-11-16

Details

App URL: You must deploy your app first

Source: [Download code](#)

Resource group: Default

Deployment target: You must deploy your app first

Created: 11/16/2022

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

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

Red Hat OpenShift

Cloud Foundry

Code Engine

IBM Cloud Foundry Public is deprecated. [Learn more](#)

IBM Cloud API key

Number of instances

Getting started with apps

Step 1. Select the deployment target

Select your deployment target, and then provide the configuration information.

IBM Cloud Foundry

Cloud Foundry is the premier industry standard Platform-as-a-Service (PaaS) that ensures fast, easy, and reliable deployment of cloud-native apps. Cloud Foundry ensures that the build and deploy aspects of coding remain carefully coordinated with any attached services — resulting in quick, consistent and reliable iterating of applications. Cloud Foundry has a Lite plan that allows quick deployments for testing purposes.

Before you begin

- If your account doesn't have a Cloud Foundry org, you must create one. [Create org.](#)

Steps

- Select the number of instances, memory allocation, region, org, and space.
- Select the domain and provide a host name.

cloud.ibm.com/account/cloud-foundry

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Licenses and entitlements

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Dashboards

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IBM Cloud Shell settings

Notification distribution list

Classic infrastructure

Subscriptions

Audit log

Company information

Cloud Foundry Orgs

IBM Cloud Foundry Public is being deprecated. Please see [full details](#).

Create

Name	Date Created	Spaces	Roles	Actions
Siranjeevi	11/16/2022	1	Manager	

Type here to search

cloud.ibm.com/account/cloud-foundry/Siranjeevi/spaces?accountId=c36bf102efe84f30968865be54cc3d68

Cloud Foundry Orgs / Siranjeevi

Spaces Users Domains Info

Add a space

Name	Region	ID	Manager	Date Created	Actions
siranjeevi452	Sydney	a2529ea0-4d95-4987-8737-6557d4e63458	✓	11/16/2022	

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cloud.ibm.com/developer/appservice/apps/8a60daf9-9796-476f-ac13-db1ebd06c6e1

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IBM Cloud Foundry Public is deprecated. Learn more

IBM Cloud API key
..... New +

Number of instances
1

Memory allocation per instance
64 MB 2000 MB 256

Region Organization Space
Sydney Siranjeevi siranjeevi452

Host Domain
node-red-fgzoo-2022-11-16 au-syd.mybluemix.net

Cancel Next

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Resource list / App details /
Node RED FGZOO 2022-11-16

Select the deployment target Configure the DevOps toolchain

Getting started with apps

Configure the DevOps toolchain
Give your toolchain a name and select the region to create your toolchain in.

DevOps toolchain name
NodeREDFGZOO2022-11-16
Accept the default name, or enter a value up to 100 characters.

Region
Dallas
Dallas
Washington DC
Toronto
London
Frankfurt
Sydney
Tokyo
Osaka
São Paulo

ASK A QUESTION

ASK A QUESTION

ASK A QUESTION

Node RED FGZOO 2022-11-16 Add tags

Actions...

Details

App URL	You must deploy your app first
Source	https://au-syd.git.cloud.ibm.com/422119104025/NodeREDFGZOO2022-11-16
Resource group	Default
Deployment target	You must deploy your app first
Created	11/16/2022

Services

Cloudant

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

Credentials

Connect existing services

Create service

Deployment Automation

Name	NodeREDFGZOO2022-11-16
Location	Sydney
Tool integrations	

Delivery Pipelines

Name	ci-pipeline
Status	No stages detected
Name	pr-pipeline
Status	No stages detected

ASK A QUESTION

https://cloud.ibm.com/devops/pipelines/tekton/0e383aed-5c0b-4225-90ff-78a1b612a2e3?env_id=ibmypoau-syd&app_id=8a60daf9-9796-476f-ac13-db1ebd06c6e1

Node-RED

filter nodes

Flow 1

inject -> Hello Node-RED! -> msg.payload

common nodes: inject, debug, complete, catch, status, link in, link call, link out, comment

function nodes: function, switch, change, range

Flow 1 info: Flow "abc7243a270ee597"

You can manage your palette of nodes with alt-⌘p

Node-RED interface showing a flow named "Flow 1" with an inject node connected to a msg.payload node. The "Edit inject node" dialog is open, showing properties for the inject node. The "msg.payload" is set to "Hello Node-RED!". The "msg.topic" is set to "global". The "Repeat" dropdown is set to "none". The "Inject once after" field is set to "0.1" seconds.

Properties:

- Name: Name
- msg.payload: Hello Node-RED!
- msg.topic: global

Inject once after 0.1 seconds, then

Repeat: none

Enabled

Info panel shows the node details for "Hello Node-RED!":

- Node: "b1b11140.4e4ef"
- Type: inject

ctrl-space will toggle the view of this sidebar


Node-RED interface showing the same flow as above, but with a "Successfully deployed" message at the top. The flow is now visible in the main workspace.

Flow 1:

- inject node connected to msg.payload node

Info panel shows the node details for "Hello Node-RED!":

- Node: "b1b11140.4e4ef"
- Type: inject

Hold down  when you click on a node to also select all of its connected nodes