

Team ID	PNT2022MID46860
Project Name	Smart Farmer-IOT Enable Smart Farming Application
Maximum marks	4marks

CREATE NODE-RED SERVICE

DASHBOARD

The screenshot displays the IBM Cloud Dashboard interface. At the top, there's a navigation bar with the IBM Cloud logo, a search bar, and links for Catalog, Manage, and the user's account (karthick raj's Account). The main content area is titled "Dashboard" and includes a "Create resource" button. Below this, there's a "For you" section with several tiles: "Build" (Explore IBM Cloud with this selection of easy starter tutorials and services), "Explore IBM Cloud Shell" (Try a command-driven approach for creating, developing, and deploying a web project), "Visit the IBM Cloud catalog" (Explore our unique product catalog that contains 190+ services and software for your business solutions), "Use Speech to Text" (Easily convert the human voice into the written word for voice control, transcription, etc. with Speech to Text), "Create an OpenShift cluster" (Deploy apps on highly available clusters with Red Hat OpenShift on IBM Cloud), and "Build a" (Create Object in its n: Query i). Each tile has a "Getting started" button and a time estimate. At the bottom, there are sections for "User access" (Manage users), "News" (View all), and "Planned maintenance" (View all). The Windows taskbar is visible at the bottom of the screen.

NODE-RED

The screenshot shows the IBM Cloud Developer console interface. The browser address bar displays the URL: `cloud.ibm.com/developer/appservice/create-app?starterKit=59c9d5bd-4d31-3611-897a-f94eea80dc9f&defaultLanguage=undefined`. The page title is "Node-RED". The "About" tab is selected, showing details about the starter kit. The "Overview" section explains that this starter kit provides a pre-configured Node-RED application, including a Cloudant service to store the application flow configuration. It also lists helpful links like GitHub, Terms, and Tutorial. The "What's included?" section lists the components: Cloudant (Free to start), View docs, and View API reference. The bottom of the page shows the Windows taskbar with various application icons and the system clock indicating 12:24 on 13-11-2022.

IBM Cloud

Search resources and products...

Catalog Manage karthick raj's Account

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](#)

ASK A QUESTION

The screenshot shows the IBM Cloud Developer console interface for a specific application. The browser address bar displays the URL: `cloud.ibm.com/developer/appservice/apps/9b674a08-5fd8-4cd0-9c35-e7e0524dbd0e`. The page title is "Node RED TGJGS 2022-11-13". The "Details" tab is selected, showing the app's URL, source code, resource group, deployment target, and creation date. The "Services" section shows the Cloudant service and the option to provision service credentials. The "Deployment Automation" section shows the option to configure continuous delivery. The bottom of the page shows the Windows taskbar with various application icons and the system clock indicating 12:26 on 13-11-2022.

IBM Cloud

Search resources and products...

Catalog Manage karthick raj's Account

Resource list / App details /

Node RED TGJGS 2022-11-13

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 11/13/2022

Services

Cloudant
Provisioning service 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](#)

ASK A QUESTION

IBM Cloud

cloud.ibm.com/developer/appservice/apps/9b674a08-5fd8-4cd0-9c35-e7e0524dbd0e

Search resources and products...

Catalog Manage karthick raj's Account

Details

App URL: You must deploy your app first

Source: [Download code](#)

Resource group: [Default](#)

Deployment target: You must deploy your app first

Created: 11/13/2022

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](#)

ASK A QUESTION

Type here to search

12:27 13-11-2022

IBM Cloud

cloud.ibm.com/developer/appservice/apps/9b674a08-5fd8-4cd0-9c35-e7e0524dbd0e

Search resources and products...

Catalog Manage karthick raj's Account

Resource list / App details /

Node RED TGJGS 2022-11-13

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

Type here to search

12:27 13-11-2022

mycluster-free Normal Expires in 30 days Add tags

Overview

Worker nodes

Worker pools

DevOps New

Expires in 30 days:
Be sure to back up your data, your cluster will be deleted in 30 days. To access the full capabilities of the service, try out a [standard cluster](#).

Node status 1 of 1 Normal Details ↓	Add-on status 0 of 0 Normal Details ↓	Master status Normal Docs ↗	Ingress status Unknown Docs ↗
---	---	--	--

Details

Cluster ID cdo9ebvf9g1g1q1fivfg	Version 1.24.7_1542	Infrastructure Classic	Zones Milan 01
Created 11/13/2022, 12:35 PM	Resource group Default	Image security enforcement Enable	

Node RED TGJGS 2022-11-13

Select the deployment target Configure the DevOps toolchain

Configure the DevOps toolchain

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

DevOps toolchain name

NodeREDTGJGS2022-11-13

Accept the default name, or enter a value up to 100 characters.

Region

Dallas

Back Create

Getting started with apps

Step 2. Configure the DevOps toolchain

The DevOps toolchain includes a Delivery Pipeline tool where you can check the deployment status, start builds, manage deployment, and view logs and history.

1. Provide a name for your toolchain.
2. Select the region where your toolchain is created.
3. Select the resource group that has access to your new toolchain. [Learn more.](#)
4. After you're finished with your selections, click **Create**.

ASK A QUESTION

IBM Cloud

Search resources and products...

Node RED TGJGS 2022-11-13

Details

App URL: <http://159.122.175.72:30777>

Source: <https://us-south.git.cloud.ibm.com/karthickraj1206/NodeREDTGJGS...>

Resource group: Default

Deployment target: mycluster-free

Created: 11/13/2022

Services

Cloudant

Open dashboard | Documentation | API reference

Credentials

Connect existing services | Create service

Deployment Automation

Name: NodeREDTGJGS2022-11-13

Location: Dallas

Tool integrations

Delivery Pipelines

Name: ci-pipeline

Status: Success

Name: pr-pipeline

Status: No stages detected

Welcome to your new Node-RED instance on IBM Cloud

We know you're eager to start wiring up your flows, but first there are a couple of tasks you should do:

- Secure your Node-RED editor
- Learn how to install additional nodes

Inbox (992) x IBM x IBM Cloud A x (812) Node R x IoT-B3-3M5E x IBM App Dev x Node-RED on x mycluster-fre x +

Not secure | 159.122.175.72:30777

Node-RED

Flow-based programming for the Internet of Things

Node-RED is a programming tool for wiring together hardware devices, APIs and online services in new and interesting ways.

This instance is running as an IBM Cloud application, giving it access to the wide range of services available on the platform.

More information about Node-RED, including documentation, can be found at nodered.org.

[Go to your Node-RED flow editor](#)

[Learn how to customise Node-RED](#)

Customising your instance of Node-RED

This instance of Node-RED is enough to get you started creating flows.

Type here to search

13:25 13-11-2022

Inbox (992) x IBM x IBM Cloud A x (812) Node R x IoT-B3-3M5E x IBM App Dev x Node-RED on x mycluster-fre x +

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