

## CREATE NODE-RED SERVICE

TEAM ID	PNT2022TMID10251
PROJECT TITLE	REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM
TEAM LEADER	GERALD RUBAN
TEAM MEMBER 1	ASWATH S
TEAM MEMBER 2	LAKSHMANA KUMAR
TEAM MEMBER 3	BENHER CHRISTOPHER A

The screenshot displays the IBM Cloud Catalog web application. The browser address bar shows 'cloud.ibm.com/catalog'. The user is logged in as 'GERALD RUBAN'. The main content area is titled 'Catalog' and shows a search bar. Below the search bar, there's a 'Category' filter on the left with options like 'Recommended products (6)', 'Compute (30)', 'Containers (9)', 'Networking (30)', 'Storage (20)', 'AI / Machine Learning (17)', 'Analytics (10)', 'Blockchain (1)', and 'Databases (28)'. The main display shows 'Viewing 206 products' and lists three featured services: 'Analytics Engine' by IBM, 'AnonTech Vizivault Platform' by Anon Technology, Inc., and 'API Connect' by IBM. Each service card includes a brief description and a list of features like 'Lite', 'Free', 'HIPAA Enabled', 'IAM-enabled', and 'Service Endpoint Supported'.

## CREATE NODE-RED SERVICE

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 header includes the IBM Cloud logo, a search bar, and navigation links for Catalog, Manage, and the user profile (GERALD RUBAN's Acco...). The main content area is divided into two tabs: 'About' (selected) and 'Create'. The 'About' tab contains the following sections:

- Details:** Author (IBM), Updated (2/11/2020), Type (Starter kit).
- Source code:** GitHub link.
- 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

A 'Get started' button is located at the bottom of the 'About' tab. A vertical 'ASK A QUESTION' button is on the right side of the page.

The screenshot shows the IBM Cloud Developer console interface, specifically the 'Create' tab for the Node-RED service. The browser address bar displays the same URL as the previous screenshot. The page header is identical. The main content area is divided into two tabs: 'About' and 'Create' (selected). The 'Create' tab contains the following sections:

- App details:**
  - App name:** Node RED EZKYE 2022-11-11. Below the input field, it says: 'Accept the default name, or enter a value between 2 and 128 characters.'
  - Resource group:** Default (dropdown menu).
  - Tags:** Examples: env:dev, version=1.
  - Platform:** Node.js (radio button).
- Service details:** (Section header, content not visible).

A vertical 'ASK A QUESTION' button is on the right side of the page.

## CREATE NODE-RED SERVICE

The screenshot displays the IBM Cloud Developer App Service console. The browser address bar shows the URL: `cloud.ibm.com/developer/appservice/apps/bf847937-817c-46d8-9930-a6c9425af918`. The page title is "Node RED EZKYE 2022-11-11".

**Details:**

- App URL: You must deploy your app first
- Source: [Download code](#)
- Resource group: Default
- Deployment target: You must deploy your app first
- Created: 11/11/2022

**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**

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.

ASK A QUESTION

## CREATE NODE-RED SERVICE

IBM App Development

cloud.ibm.com/developer/appservice/apps/bf847937-817c-46d8-9930-a6c9425af918

IBM Cloud Service Details - IB... Node-RED on IBM...

IBM Cloud Search resources and products...

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

GERALD RUBAN

Profile  
Log in to CLI and API  
Privacy  
Change theme  
Log out →

IBM Cloud API key  
New +

Number of instances  
1

Memory allocation per instance  
64 MB 2000 MB 256

Region Organization Space  
London ge20ak 19110009

Host Domain  
node-red-ezkye-2022-11-11 eu-gb.mybluemix.net

Cancel Next

ASK A QUESTION

IBM App Development

ci-pipeline Dashboard

cloud.ibm.com/developer/appservice/apps/bf847937-817c-46d8-9930-a6c9425af918

IBM Cloud Service Details - IB... Node-RED on IBM...

IBM Cloud Search resources and products...

Resource list / App details /

Node RED EZKYE 2022-11-11 Add tags

GERALD RUBAN

Profile  
Log in to CLI and API  
Privacy  
Change theme  
Log out →

**Details**

App URL <https://node-red-ezkye-2022-11-11.eu-gb.mybluemix.net>

Source <https://us-south.git.cloud.ibm.com/720719110026/NodeREDE...>

Resource group Default

Deployment target Node RED EZKYE 2022-11-11

Created 11/11/2022

**Services**

Cloudant

Open dashboard Documentation API reference

Credentials

Connect existing services + Create service +

**Deployment Automation**

Name NodeREDEZKYE2022-11-11

Location Dallas

Tool integrations

**Delivery Pipelines**

Name ci-pipeline Status Success

Name pr-pipeline Status No stages detected

**Getting**

**Configuring 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.

ASK A QUESTION

## CREATE NODE-RED SERVICE

The screenshot shows a web browser window with three tabs: 'IBM App Development', 'Node-RED on IBM Cloud', and 'ci-pipeline Dashboard'. The address bar displays the URL: `node-red-ezkye-2022-11-11.eu-gb.mybluemix.net/?_ga=2.118739401.1373156192.1668063826-2122196026.1668063826`. The page title is 'Node-RED on IBM Cloud'. The main content area has a dark red header with the text 'Node-RED' and 'Flow-based programming for the Internet of Things'. Below this, there is a light gray section with the following text: '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](https://nodered.org).' To the right of this text is a red button labeled 'Go to your Node-RED flow editor' and a link that says 'Learn how to customise Node-RED'. The browser's status bar at the bottom shows the URL `https://node-red-ezkye-2022-11-11.eu-gb.mybluemix.net/red/` and the system clock indicates 11:29 on 11-11-2022.

Node-RED on IBM Cloud

# 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](https://nodered.org).

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

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

`https://node-red-ezkye-2022-11-11.eu-gb.mybluemix.net/red/`

## CREATE NODE-RED SERVICE

The screenshot displays the IBM App Development console interface. At the top, a browser tab shows the URL `node-red-ezkye-2022-11-11.eu-gb.mybluemix.net/red/#flow/551c98828fabe3f1`. A notification bar at the top center states "Successfully injected: Hello Node-RED!".

The main workspace is titled "Flow 1" and contains a single flow with two nodes: a "Hello Node-RED!" node and a "msg.payload" node. The left sidebar shows the "common" and "function" node categories. The right sidebar shows the "debug" console with a log entry:

```
11/11/2022, 11:31:20 AM node: f2f2649a.0d0d98  
msg payload: string[15]  
"Hello Node-RED!"
```

The bottom of the image shows the Windows taskbar with various application icons and system status indicators.