

## CREATE NODE-RED SERVICE

|               |   |
|---------------|---|
| TEAM ID       | PNT2022TMID37794  |
| PROJECT TITLE | REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM |
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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 'Aravind S.E's Account'. The main content area is titled 'Dashboard' and includes a 'Create resource' button. Below this, there's a 'For you' section with five tiles: 'Build' (purple), 'Set up your IBM Cloud account' (10 min), 'Build a Virtual Private Cloud (VPC)' (7 min), 'Get Started with Watson Studio' (2 hr), and 'Use Speech to Text' (2 min). At the bottom, there are sections for 'User access' (Manage users), 'News' (Unified Key Orchestrator, TrustRadius), and 'Planned maintenance' (View all). The Windows taskbar at the bottom shows the date as 07-11-2022 and time as 11:33 AM.

# CREATE NODE-RED SERVICE

The screenshot shows the IBM Cloud Developer console. 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's account (Aravind S.E.'s Account). The main content area is titled 'About' and 'Create'. The 'About' section includes details about the starter kit, source code links (GitHub, Terms, Tutorial), and helpful links. The 'Overview' section describes the starter kit's purpose and lists the steps it will help with: generating an application with Node-RED, generating files for deployment, and connecting to services. A 'What's included?' section highlights the Cloudant service, which is free to start. A 'Get started' button is prominently displayed at the bottom of the main content area. The system tray at the bottom shows the weather (87°F, Mostly sunny) and the time (03:05 PM, 07-11-2022).

**IBM Cloud** Search resources and products... Catalog Manage Aravind S.E.'s Account

**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**

87°F Mostly sunny ENG INTL 03:05 PM 07-11-2022

The screenshot shows the IBM Cloud Developer console, specifically the 'Create' page 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 titled 'Tags' and 'Platform'. The 'Tags' section includes a search bar with examples: `env:dev, version-1`. The 'Platform' section shows 'Node.js' selected. The 'Service details' section includes the 'Cloudant' service details, with 'Region' set to 'London' and 'Resource group' set to 'Default'. The 'Pricing plan' is set to 'Lite'. There are links for 'Pricing details' and 'Terms'. At the bottom, there are 'Cancel' and 'Create' buttons. The system tray at the bottom shows the weather (87°F, Mostly sunny) and the time (03:05 PM, 07-11-2022).

**IBM Cloud** Search resources and products... Catalog Manage Aravind S.E.'s Account

**Tags**

Examples: `env:dev, version-1`

**Platform**

☒ Node.js

**Service details**

**Cloudant**

Region: London Resource group: Default

Pricing plan: Lite

[Pricing details](#) [Terms](#)

**Cancel** **Create**

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## CREATE NODE-RED SERVICE

Search results x careereducatio x IBM App Deve x IBM Cloud Acc x IBM Watson Ic x IBM-Project-7: x IBM x +

cloud.ibm.com/developer/appservice/apps/d02d722e-ca52-4457-a7a4-5ca7013c6f7e

IBM Cloud Search resources and products... Catalog Manage Aravind S.E's Account

IBM Cloud API key

..... New +

Number of instances

1

Memory allocation per instance

64 MB 2000 MB 256

Region Organization Space

London water monitor IoT

Host Domain

node-red-vtxtv-2022-11-07 eu-gb.mybluemix.net

Cancel Next

ASK A QUESTION

87°F Mostly sunny 03:09 PM 07-11-2022

Search results x careereducatio x IBM App Deve x IBM Cloud Acc x IBM Watson Ic x IBM-Project-7: x IBM x +

cloud.ibm.com/developer/appservice/apps/d02d722e-ca52-4457-a7a4-5ca7013c6f7e

IBM Cloud Search resources and products... Catalog Manage Aravind S.E's Account

Resource list / App details /

### Node RED VTXTV 2022-11-07

Add tags

Actions...

#### Details

|                   |   |
|-------------------|---|
| App URL           | You must deploy your app first  |
| Source            | <a href="https://eu-gb.git.cloud.ibm.com/710419106002/NodeREDVTX...">https://eu-gb.git.cloud.ibm.com/710419106002/NodeREDVTX...</a> |
| Resource group    | Default   |
| Deployment target | You must deploy your app first  |
| Created           | 11/7/2022   |

#### Services

Cloudant

Open dashboard Documentation API reference

Credentials

Connect existing services + Create service +

#### Deployment Automation

|                   |                        |
|-------------------|------------------------|
| Name              | NodeREDVTXTV2022-11-07 |
| Location          | London                 |
| Tool integrations |                        |

#### Delivery Pipelines

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

ASK A QUESTION

87°F Mostly sunny 03:10 PM 07-11-2022

## CREATE NODE-RED SERVICE

IBM Cloud

Search resources and products...

Q

Catalog

Manage

Karthika K's Account

?

Resource list /

Node RED CKXAC 2022-11-07 Running [Visit App URL](#) [Add tags](#)

Details

Actions...

Getting started

Overview

Runtime

Connections

Logs

API Management

Autoscaling

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

Instances

Health

100%

1/1 instance(s) are running

MB memory per instance

0 2048 256

Instances

1 - +

Edit

Runtime

Node.js

256

Total MB allocation

1.75 GB still available

Free Used

Runtime cost

Current and estimated cost excludes connected services.

Connections (1)

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](#)

## CREATE NODE-RED SERVICE

The screenshot displays the Node-RED web interface. The top header bar includes the Node-RED logo, a 'Deploy' button, and user profile icons. The left sidebar, titled 'filter nodes', contains two categories: 'common' and 'function'. The 'common' category lists nodes like inject, debug, complete, catch, status, link in, link call, link out, and comment. The 'function' category lists 'function' and 'switch'. The main workspace, labeled 'Flow 1', shows a flow with two nodes: an 'inject' node (blue) with the text 'Hello Node-RED!' and a 'msg payload' node (green). A line connects the output of the inject node to the input of the msg payload node. The right sidebar, titled 'info', contains a search bar for flows, a list of flows (Flow 1 is selected), and a search bar for nodes with a 'ctrl-f' placeholder.