

# CREATE AND CONFIGURE IBM CLOUD SERVICES

## CREATE NODE-RED SERVICE

The screenshot shows the IBM Cloud developer console for a Node-RED service instance named "Node RED HEQMG 2022-11-05". The interface is divided into several sections:

- Details:** Displays the App URL (<https://node-red-heqmg-2022-11-05.mybluemix.net>), Source (<https://us-south.git.cloud.ibm.com/sajitharavink123/NodeRED...>), Resource group (Default), Deployment target (Node RED HEQMG 2022-11-05), and Created date (11/5/2022).
- Services:** Shows the Cloudant service and links to the Open dashboard, Documentation, and API reference. There are buttons for "Connect existing services" and "Create service".
- Deployment Automation:** Lists the Name (NodeREDHEQMG2022-11-05), Location (Dallas), and Tool integrations. It also shows Delivery Pipelines with a "pr-pipeline" (No stages detected) and a "ci-pipeline" (Success).
- Getting started quickly:** Provides instructions on how to configure the app, including connecting services, downloading code, and deploying the app.

The bottom of the screen shows a Windows taskbar with various application icons and a system tray displaying the date and time (03:55 PM 18-11-2022).

The screenshot shows the Node-RED web interface on IBM Cloud. The page has a dark red header with the text "Node-RED on IBM Cloud". Below the header, the main content area is white and contains the following information:

- Node-RED:** Flow-based programming for the Internet of Things.
- Introduction:** A paragraph explaining that Node-RED is a programming tool for wiring together hardware devices, APIs, and online services in new and interesting ways. It mentions that this instance is running as an IBM Cloud application, giving it access to the wide range of services available on the platform. A link to "Learn how to customise Node-RED" is provided.
- Customising your instance of Node-RED:** A section explaining that this instance of Node-RED is enough to get you started creating flows. It suggests that you may want to customise it for your needs, for example replacing this introduction page with your own, adding http authentication to the flow editor, or adding new nodes to the palette. It also mentions that to start customising your instance of Node-RED, you can either download the application locally or use IBM DevOps Services to edit and deploy your changes directly.

The bottom of the screen shows a Windows taskbar with various application icons and a system tray displaying the date and time (03:55 PM 18-11-2022).

Node-RED interface showing a flow editor with a grid workspace. The left sidebar contains a palette of nodes categorized into 'common' and 'function'. The right sidebar displays a 'debug' console with a log of messages, including timestamps, node IDs, and payloads. The bottom status bar shows the system clock as 03:56 PM on 18-11-2022.

**Node-RED Interface Components:**

- Flow Editor:** A central grid workspace for building flows.
- Node Palette (Left):**
  - Common Nodes:** inject, debug, complete, catch, status, link in, link call, link out, comment.
  - Function Nodes:** function, switch, change, range, template, delay, trigger, filter, OpenAPI.
- Debug Console (Right):** Displays log messages from the flow. The log shows a sequence of messages with timestamps (e.g., 11/18/2022, 3:51:08 PM) and payloads (e.g., 22, 3, 86, 38, 13, 69).
- Status Bar (Bottom):** Shows the system clock as 03:56 PM on 18-11-2022.