

Create Node Red Service

Team ID	PNT2022TMID07841
Project Name	Smart waste management system formetropolitan cities

Step 1: Login into IBM CLOUD account

Step2: In catalog, search for node red application

Step 3: Enter the project details and click on create

Step 4: click on deploy option and deploy

Step 5: Set up the environment for deploying and click on create

Step 6: Now drag and drop the nodes and connect nodes with IOT Watson platform

Step 7: setup the settings that connects node red service with Watson IOT

Step 8: Finally, output can be seen in node red service

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The screenshot displays the IBM Cloud Developer console interface. The browser address bar shows the URL: `cloud.ibm.com/developer/appservice/apps/5ec01299-49bf-47ce-ac26-4b92fa3f7603?didcache=true`. The page title is "Node RED TLRHA 2022-11-17". The "Details" section on the left lists the App URL, Source (with a "Download code" button), Resource group (Default), Deployment target, and Created date (11/17/2022). The "Services" section shows the Cloudant service with links to "Open dashboard", "Documentation", and "API reference", along with a "Credentials" dropdown and buttons for "Connect existing services" and "Create service". The "Deployment Automation" section on the right includes a "Deploy your app" button and a "Configure Continuous Delivery" section with a note that Continuous Delivery is not enabled for this app. The bottom of the screen shows the Windows taskbar with the search bar and various application icons.

IBM Cloud Catalog search results for 'node'. The interface shows a search bar with 'node' entered, a sidebar with filters for Category (Containers, Networking, AI / Machine Learning, Databases, Developer tools, Migration, Integration, Security), Type (All, Services, Software), and Delivery method (Cloud Paks). The main area displays 18 products, including Node-RED App, Node.js Express App, Natural Language Understanding Node.js App, Code Engine, Natural Language Understanding, and CloudHedge App Modernization Platform. The URL bar shows the search results page.

Node-RED interface showing a flow named 'Flow 1'. The flow contains a 'debug 1' node connected to an 'IBM IoT' node. The interface includes a sidebar with node categories (common, function) and a right panel for debugging. The URL bar shows the local development environment address.

Node-RED interface showing a flow with two nodes: **IBM IoT** (connected) and **debug 1**. The flow is named **Flow 1**.

The left sidebar shows the **common** and **function** node categories.

The right sidebar shows the **debug** node output, displaying a series of messages with temperature and humidity data:

```
11/2/2022, 8:57:33 PM node: debug 1
iot-2/type/TestId/Test123/ev/status/rnt/json : msg.payload :
Object
> { temperature: 103, humidity: 31 }

11/2/2022, 8:57:35 PM node: debug 1
iot-2/type/TestId/Test123/ev/status/rnt/json : msg.payload :
Object
> { temperature: 96, humidity: 76 }

11/2/2022, 8:57:37 PM node: debug 1
iot-2/type/TestId/Test123/ev/status/rnt/json : msg.payload :
Object
> { temperature: 56, humidity: 90 }

11/2/2022, 8:57:39 PM node: debug 1
iot-2/type/TestId/Test123/ev/status/rnt/json : msg.payload :
Object
> { temperature: -4, humidity: 13 }

11/2/2022, 8:57:41 PM node: debug 1
iot-2/type/TestId/Test123/ev/status/rnt/json : msg.payload :
Object
> { temperature: 3, humidity: 19 }

11/2/2022, 8:57:43 PM node: debug 1
iot-2/type/TestId/Test123/ev/status/rnt/json : msg.payload :
Object
> { temperature: 50, humidity: 37 }
```

The bottom status bar shows the system temperature as 25°C and the time as 20:57 on 02-11-2022.