

## Create a Node Red service

TEAM ID	PNT2022TMID06149
Project Name	Smart waste management for Metropolitan cities

### Node Red Service:

#### Step 1:

The screenshot shows the IBM Cloud console interface for a service named "Node RED WQIKE 2022-11-14". The top navigation bar includes the IBM Cloud logo, a search bar, and links to Catalog, Manage, and the user profile. The main content area is divided into two columns. The left column contains a "Details" section with fields for App URL, Source (with a "Download code" button), Resource group (set to "Default"), Deployment target, and Created date (14/11/2022). Below this is a "Services" section with a "Cloudant" icon and a "Provisioning service credentials" button. The right column features a "Deployment Automation" section with a "Deploy your app" button and a "Configure Continuous Delivery" section with a "Deploy your app" button. A vertical "ASK A QUESTION" button is visible on the right side of the console.

#### Step 2:

The screenshot shows the IBM Cloud console interface for the same service, now in the "Deployment Automation" section. The top navigation bar is identical to the previous screenshot. The main content area is divided into two columns. The left column contains a "Deployment target" section with three options: "Kubernetes Service" (selected), "Red Hat OpenShift", and "Cloud Foundry". The right column features a "Getting started with apps" section with a "Step 1. Select the deployment target" heading. Below this, there is a "Before you begin" section with two bullet points: "One free Kubernetes cluster is available per account." and "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." A vertical "ASK A QUESTION" button is visible on the right side of the console.

## Step 3:

IBM Cloud

Search resources and products...

Catalog Manage Karnica Shivani R S's A...

Account

Account resources

Resource groups

Cloud Foundry orgs

Licenses and entitlements

Tags

Dashboards

Account settings

IBM Cloud Shell settings

Notification distribution list

Classic infrastructure

Subscriptions

Audit log

Company information

### Cloud Foundry Orgs

Create

Name	Date Created	Spaces	Roles	Actions
smart waste management	11/10/2022	1	Manager	

## Step 4:

Node-RED

Deploy

filter nodes

Flow 1

common

- inject
- debug
- complete
- catch
- status
- link in
- link call
- link out
- comment

function

- function
- switch
- change
- range

IBM IoT

msg.payload

debug

all nodes

all

## Step 5:

The image shows the Node-RED web interface. On the left, the 'common' and 'function' node palettes are visible. The main workspace, titled 'Flow 1', contains a flow with two nodes: a 'hello world' node (orange) and a 'msg.payload' node (green), connected by a wire. On the right, the 'debug' console is open, displaying a list of messages. Each message entry includes a timestamp, a node ID, and the message content, which is 'hello world'.

Timestamp	Node ID	Message
11/14/2022, 9:39:55 PM	node: f5b5a7ca1a76d38b	msg.payload: string[11] "hello world"
11/14/2022, 9:39:56 PM	node: f5b5a7ca1a76d38b	msg.payload: string[11] "hello world"
11/14/2022, 9:39:57 PM	node: f5b5a7ca1a76d38b	msg.payload: string[11] "hello world"
11/14/2022, 9:39:58 PM	node: f5b5a7ca1a76d38b	msg.payload: string[11] "hello world"
11/14/2022, 9:39:59 PM	node: f5b5a7ca1a76d38b	msg.payload: string[11] "hello world"
11/14/2022, 9:40:00 PM	node: f5b5a7ca1a76d38b	msg.payload: string[11] "hello world"
11/14/2022, 9:40:01 PM	node: f5b5a7ca1a76d38b	msg.payload: string[11] "hello world"
11/14/2022, 9:40:02 PM	node: f5b5a7ca1a76d38b	msg.payload: string[11] "hello world"