

CREATE NODE-RED SERVICE

Team ID	PNT2022TMID01194
Project Name	Hazardous Area Monitoring for Industrial Plant powered by IoT

To create a web application create a Node-RED service.

Node-RED is a **programming tool for wiring together hardware devices, APIs and online services in new and interesting ways**. It provides a browser-based editor that makes it easy to wire together flows using the wide range of nodes in the palette that can be deployed to its runtime in a single-click.

The following commands are provided to work with the service: **node-red-start** - this starts the Node-RED service and displays its log output. Pressing Ctrl-C or closing the window does not stop the service; it keeps running in the background. **node-red-stop** - this stops the Node-RED service.

The screenshot displays the IBM Cloud console interface for a service named "Node RED MFCNC 2022-11-08". The interface is divided into several sections:

- Details:** Shows the App URL (<https://node-red-mfcnc-2022-11-08.eu-gb.mybluemix.net>), Source (<https://eu-gb.git.cloud.ibm.com/vaishu070202/NodeREDMFCN...>), Resource group (Default), Deployment target (Node RED MFCNC 2022-11-08), and Created date (08/11/2022).
- Services:** A section for managing services, including a "Cloudant" service. It features buttons for "Open dashboard", "Documentation", "API reference", and "Credentials". At the bottom, there are buttons for "Connect existing services" and "Create service".
- Deployment Automation:** A section showing the deployment status. It lists two pipelines: "ci-pipeline" with a status of "Success" and "pr-pipeline" with a status of "No stages detected".
- Getting started quickly:** A sidebar on the right with a "Getting started quickly" section. It includes instructions for configuring the app, connecting services, and deploying the app locally. A "ASK A QUESTION" button is visible on the far right.

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.

Go to your Node-RED flow editor

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

Customising your instance of Node-RED

<https://nodered.org/docs/getting-started/deploying-to-ibm-cloud>

Node-RED

filter nodes

common

inject

debug

complete

catch

status

link in

link call

link out

comment

function

function

switch

change

range

template

Flow 1

Flow 2

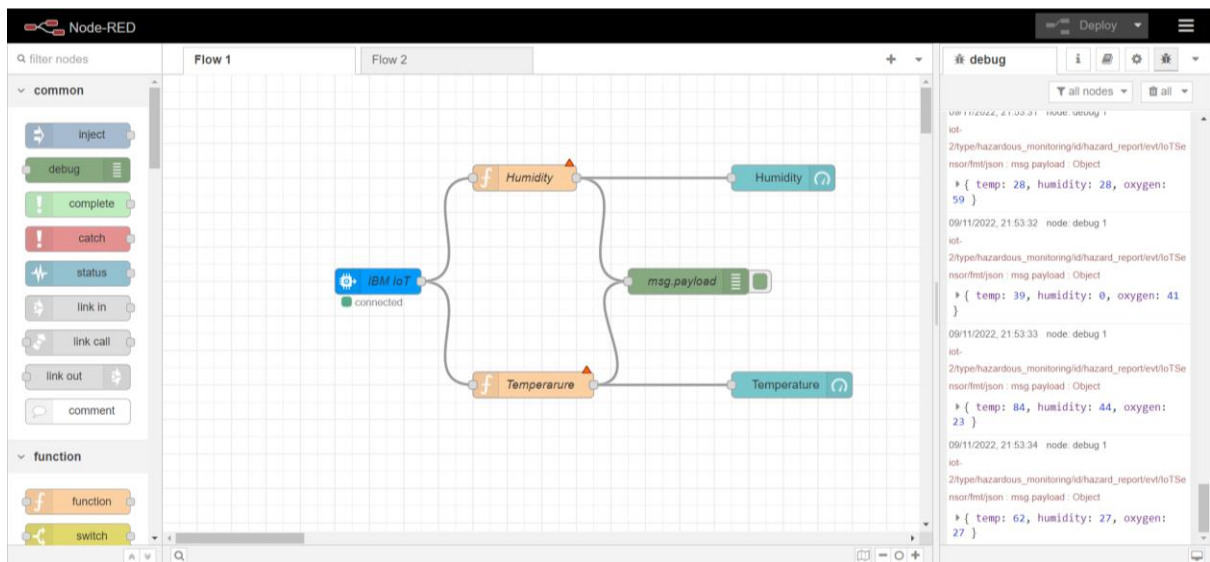
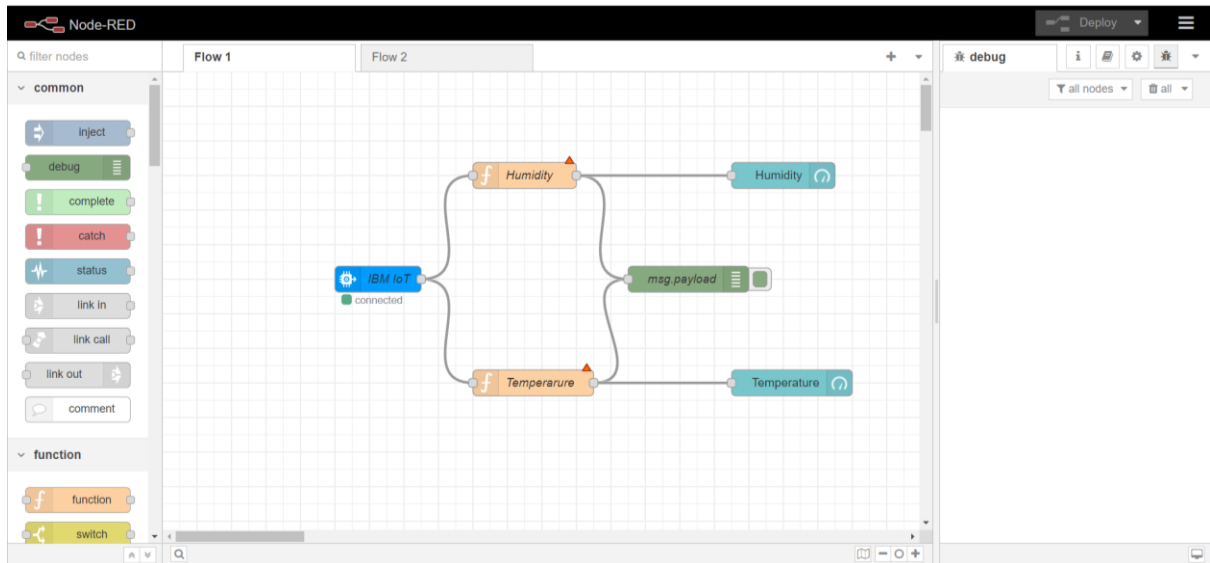
Hello Node-RED!

msg.payload

debug

all nodes

all



filter nodes

common

inject

debug

complete

catch

status

link in

link call

link out

comment

function

function

switch

change

Flow 1

Flow 2

IBM IoT

connected

temperature

humidity

[get] /sensor

Alert On

Edit libmiot in node

Delete

Cancel

Done

Properties

Authentication

API Key

API Key

monitoring

Input Type

Device Event

Device Type

☐ All or

hazardous_monitoring

Device Id

☐ All or

hazard_report

Event

☒ All or

+

Format

☐ All or

json

QoS

0

Name

IBM IoT

Service

registered

Use the Input Type property to configure this node to receive Events

☐ Enabled