

# Project Development Phase

## Sprint 3

Date	12.11.2022
Team ID	PNT2022TMID17614
Project Title	Project - Smart Farmer - IoT Enabled Smart Farming Application
Marks	8 Marks

### Establishing Node-Red:

Build a web application using Node-RED, Configure the Node-RED and create API for communicating with a mobile application.

The screenshot displays the IBM Cloud Developer console interface. The top navigation bar includes the IBM logo, a search bar, and links to 'Catalog', 'Manage', and 'Jaikrishnan V's Account'. The main content area is titled 'Node RED RKCGD' and shows the following details:

- Details:**
  - App URL: <https://node-red-rkcgd.eu-gb.mybluemix.net>
  - Source: <https://eu-gb.git.cloud.ibm.com/jaikrishnan306/NodeREDRKCGD>
  - Resource group: Default
  - Deployment target: Node RED RKCGD
  - Created: 12/11/2022
- Services:**
  - Cloudant: Open dashboard, Documentation, API reference, Credentials
  - Buttons: Connect existing services, Create service
- Deployment Automation:**
  - Name: NodeREDRKCGD
  - Location: London
  - Tool integrations: GitHub, Docker, Jenkins
  - Delivery Pipelines:**
    - ci-pipeline: Status: Success
    - pr-pipeline: Status: No stages detected

A 'Getting started quickly' sidebar is visible on the right, and a 'ASK A QUESTION' button is at the bottom right.

Welcome to Project! Deligh

IBM

IoT-B9-3A5E (Afternoon S

IBM App Development

Node-RED : node-red-rkcg

Settings - Password Mana

node-red-rkcgd.eu-gb.mybluemix.net/red/#flow/81da86be4ed4a40e

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

template

delay

Flow 1

msg.payload

info

Search flows

Flows

Flow 1

Subflows

Global Configuration Nodes

Flow 1

Flow

"81da86be4ed4a40e"

You can manage your palette of nodes with

# Connecting application with Node Red:

Configuring the Node-RED and create APIs for communicating with mobile application.

The screenshot displays the Node-RED web interface in a browser. The browser's address bar shows the URL: `node-red-rkcgd.eu-gb.mybluemix.net/red/#flow/81da86be4ed4a40e`. The interface is divided into several sections:

- Left Panel (Nodes):** A sidebar with a search bar and two categories of nodes: 'common' (inject, debug, complete, catch, status, link in, link call, link out, comment) and 'function' (function, switch, change, range, template, delay).
- Flow Editor:** A central workspace showing a flow named 'Flow 1'. It contains an 'inject' node with the text 'Hello Node-RED!' connected to a 'msg.payload' output node.
- Edit inject node Dialog:** A modal window titled 'Edit inject node' is open. It includes a 'Delete' button, 'Cancel' and 'Done' buttons, and a 'Properties' section. The 'Properties' section has a 'Name' field and two configuration rows: 'msg.payload' set to 'Hello Node-RED!' and 'msg.topic' set to 'z'. At the bottom, there are options for 'Inject once after 0.1 seconds, then' and a 'Repeat' dropdown set to 'none'. An 'Enabled' checkbox is at the very bottom.
- Right Panel (Info):** An 'info' sidebar showing a search bar and a list of flows. The selected flow is 'Flow 1'. Below this, the details for the selected node 'Hello Node-RED!' are shown, including its ID 'b1b11140.4e4ef' and type 'inject'. A 'show more' link is visible.