

BUILD A WEB APPLICATION USING NODE-RED SERVICE

Team ID	PNT2022TMID12920
Project Name	Smart Farmer – IoT Enabled Farming Application

Node-RED Service Creation in IBM Cloud:

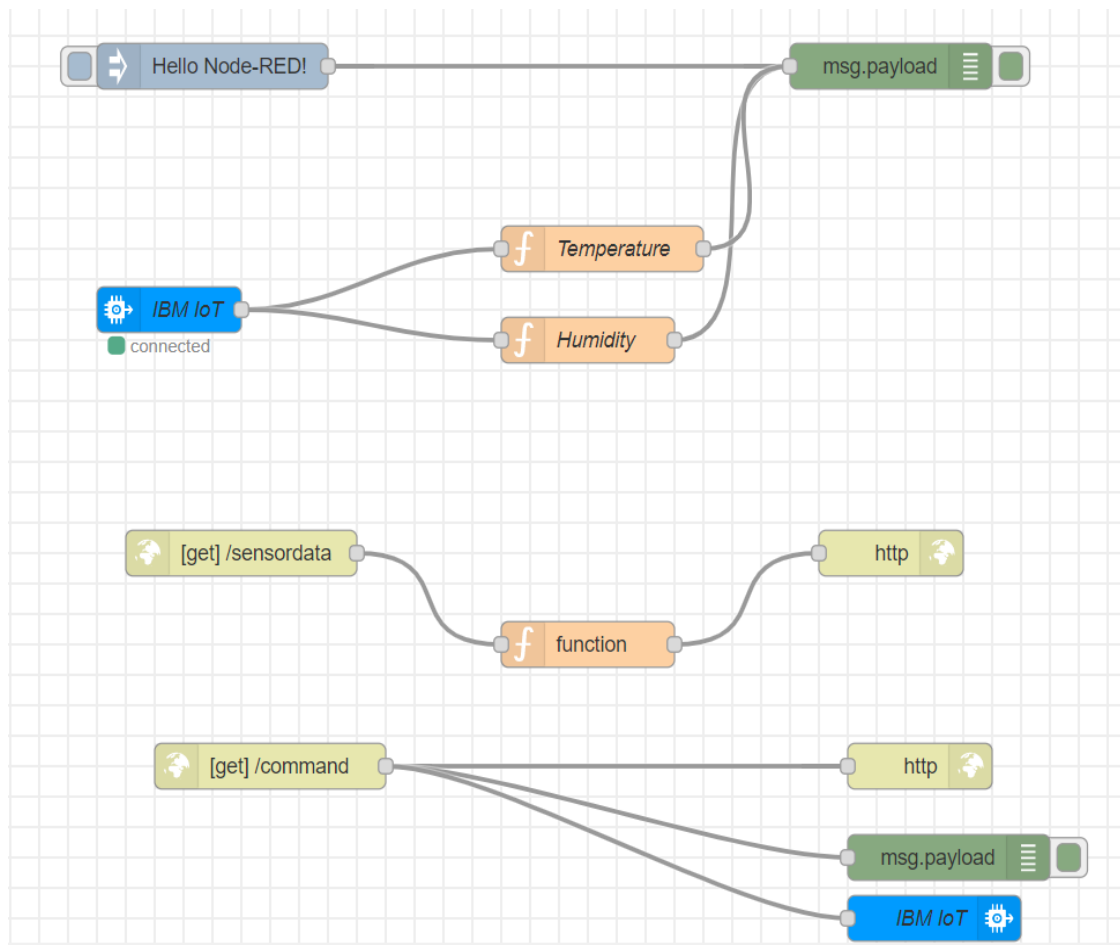
The screenshot displays the IBM Cloud console interface for a Node-RED service. The main header shows the resource name 'Node RED PHFLS 2022-11-15' with an 'Add tags' link and an 'Actions...' dropdown menu. The interface is divided into several sections:

- Details:** A table showing the App URL (<http://159.122.183.33:30753>), Source (<https://us-south.git.cloud.ibm.com/pradeipsk17/NodeREDPHF...>), Resource group (Default), Deployment target (Kube/Helm), and Created date (11/15/2022).
- Services:** A section for managing services, currently showing 'Cloudant' with links to 'Open dashboard', 'Documentation', and 'API reference'. It also includes a 'Credentials' dropdown and buttons for 'Connect existing services' and 'Create service'.
- Deployment Automation:** A section showing the configuration for deployment automation. It includes fields for Name (NodeREDPHFLS2022-11-15), Location (Dallas), and Tool integrations (Git, Docker, Helm). Below this, a table lists delivery pipelines: 'pr-pipeline' (No stages detected) and 'ci-pipeline' (Success).
- Getting started quickly:** A sidebar on the right with a 'Getting started quickly' section. It provides instructions on how to connect services and DevOps toolchains to the app, including steps for using the 'Services' card, downloading code, and deploying the app.

The right sidebar also features an 'ASK A QUESTION' button.

Node-RED service was created in the IBM cloud. After establishing Node-RED service, IBM IoT was installed in the Node-RED platform. Then, IBM Watson IoT platform was connected with Node-RED and the values in the IBM Watson IoT platform gets updated to the Node-RED in json file format.

Node-RED flow for getting sensor values from IBM Watson IoT Platform:



Node-RED Flow