SPRINT - 2

DOMAIN: INTERNET OF THINGS

PROJECT TITLE: Smart Farmer – IOT Enabled Smart Farming Application.

TEAM ID	PNT2022TMID48661

TEAM MEMBERS:

M.BALAJI 920819106008

S.HARISHWAR 920819106019

J.KISHOREKRISHNAA 920819106026

N.KIRTHICK 920819106025

IBM Cloud   Search resources and products...   Catalog   Manage ⌄   Balaji M's Account

Untitled ⌄

Edit dashboard ✎   Upgrade account   **Create resource +**

For you   Select an option ⌄

Build
Explore IBM Cloud with this selection of easy starter tutorials and services.

Create and deploy an application
Browse our starter kits, and then select one to jump start the process to create and deploy your app.
Getting started   5 min

Explore DevSecOps on IBM Cloud
Learn about IBM's DevSecOps approach, and securely build and deploy your application by using DevSecOps best practices.
Recommended   1 min

Explore IBM Cloud Shell
Try a command-driven approach for creating, developing, and deploying a web project.
Getting started   2 min

Deploy on Kubernetes
With Kubernetes clusters, you can run, update, and scale containerized applications.
Recommended   15 min

Create a Kubernetes cluster
Automate deployments and manage your containerized apps in a native Kubernetes experience.
Getting started   20 min

Notes   Edit ✎

Tip: Avoid including sensitive information in this readme because any user within the account can access this content.

About this project
Summarize your team's mission or problem statement for team members to align on.

Planned maintenance   View all

IBM Cloud status   View all

ENG IN   05:19 19-11-2022

IBM Cloud   Search resources and products...   Catalog   Manage ⌄   Balaji M's Account

Sell on IBM Cloud   Catalog settings

Catalog

🔍 node red   ✕

Category ⌃
☆ Recommended products (1)
≡ Compute (4)
🌐 Networking (5)
🗄 Storage (1)
◌ AI / Machine Learning (2)
🗃 Databases (10)
</> Developer tools (5)
⚙ Migration (1)
⚙ Integration (1)
🔒 Security (2)

Type ⓘ ⌃

Search results for 'node red'

Viewing 31 products   Relevance ⌄

Node-RED App
By IBM
Start building your next Node-RED app on IBM Cloud.

Starter kits • IBM Cloud Kubernetes Service • Red Hat OpenShift

CloudHedge App Modernization Platform
By CloudHedge Technologies Inc.
Cloudhedge App Modernization Platform

Helm charts • IBM Cloud Kubernetes Service • Third party supported

Email Delivery, powered by Sendgrid
By Third Party
Integrate and Deliver via SMTP or API in 5 Minutes or Less Our SMTP relay setup and flexible Web and SMTP APIs provide a customizable integration approach for...

Third party supported

ENG IN   05:21 19-11-2022

IBM **Cloud**

Search resources and products....

Catalog   Manage ∨   Balaji M's Account

Node-RED

| About | Create |

Overview

Details

Author   IBM
Updated   11/2/2020
Type   Starter kit

Source code

GitHub ↗

Helpful links

Terms ↗

Tutorial ↗

This starter kit provides a pre-configured Node-RED application, including a Cloudant service to store the application flow configuration. Add services, generate and download the code, use the IBM Cloud Developer Tools CLI to run and debug locally, then deploy to Cloud Foundry or a DevOps Pipeline.

This starter kit will help you

- Generate an application with Node-RED
- Generate an application with files for deploying to Cloud Foundry or a DevOps Pipeline
- Connect to provisioned services

What's included?

Cloudant
Free to start   View pricing

View docs   View API reference

ASK A QUESTION

Get started

ENG IN   05:22 19-11-2022

IBM **Cloud**

Search resources and products....

Catalog   Manage ∨   Balaji M's Account

Resource list / App details /

Node RED RZHQA 2022-11-13   Add tags ✎

Actions...   ∨

Details

App URL   http://159.122.175.131:32294

Source   https://us-south.git.cloud.ibm.com/balajim0415/NodeREDRZH...

Resource group   Default

Deployment target   Kube/Helm

Created   13/11/2022

Services

Cloudant
Open dashboard ↗   Documentation ↗   API reference ↗
Credentials ∨

Connect existing services   +   Create service   +

Deployment Automation   ⋮

Name   NodeREDRZHQA2022-11-13

Location   Dallas

Tool integrations

Delivery Pipelines

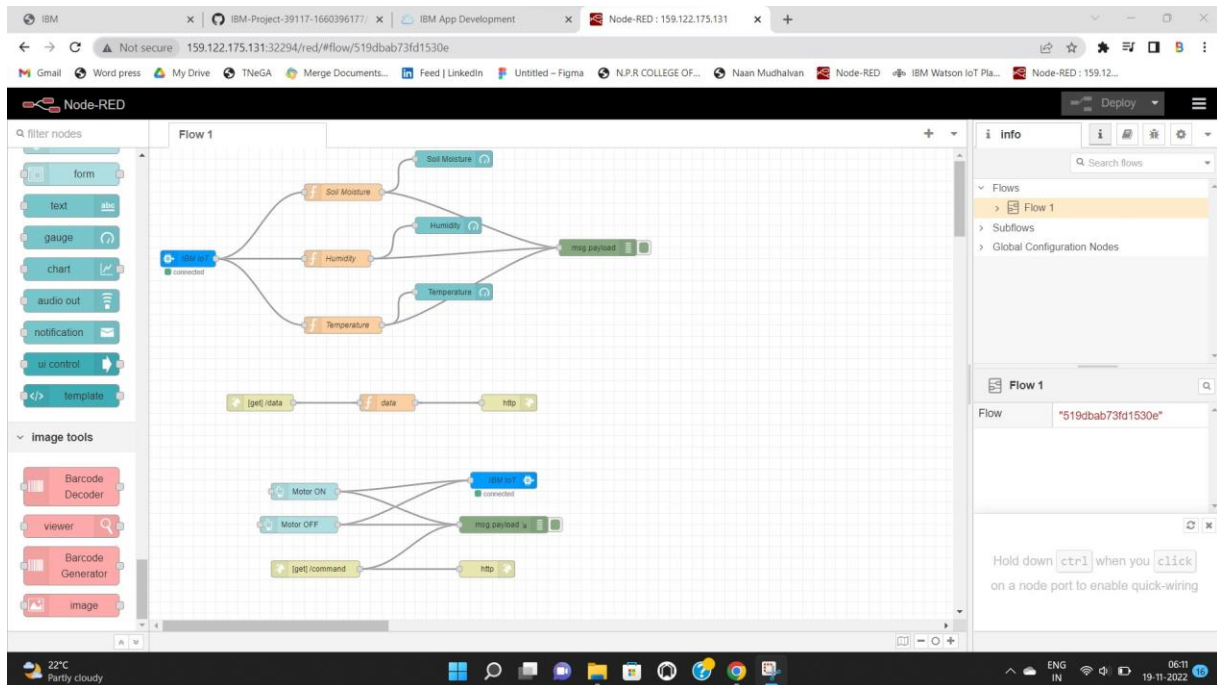Name   pr-pipeline ↗
Status   No stages detected ↗

Name   ci-pipeline ↗
Status   ✓ Success ↗

💡 **Getting started quickly**   ×

Configuring your app
To connect services and DevOps toolchains to your app:

1. Use the **Services** card to connect a service to your app. Select an existing service instance, or create a new one. Learn more. ↗

2. If you want to view the code before your app is deployed, click **Download code** to obtain the .zip file.

3. Click **Deploy your app** in the **Deployment Automation** card to select the deployment target and configure the Continuous Delivery service. The deployment begins automatically.

4. After the deployment begins, you can view the status of the deployment, modify your app, view your repo, or view the app's URL.

ASK A QUESTION

ENG IN   05:25 19-11-2022

[{"id":"2df2278e68957515","type":"ibmiot in","z":"519dbab73fd1530e","authentication":"apiKey","apiKey":"77503b1917bdca9f","inputType":"evt","logicalInterface":"","ruleId":"","deviceId":"","applicationId":"","deviceType":"+","eventType":"+","commandType":"","format":"json","name":"IBM IoT","service":"registered","allDevices":"","allApplications":"","allDeviceTypes":true,"allLogicalInterfaces":"","allEvents":true,"allCommands":"","allFormats":"","qos":0,"x":70,"y":200,"wires":[["4e5bd6dac8a98dc5","d41befdd7bb1b140","8066d29bdaa910d4"]]},{"id":"4e5bd6dac8a98dc5","type":"function","z":"519dbab73fd1530e","name":"Soil Moisture","func":"global.set('moist',msg.payload.soil_moisture)\nmsg.payload=msg.payload.soil_moisture\nreturn msg;","outputs":1,"noerr":0,"initialize":"","finalize":"","libs":[],"x":350,"y":80,"wires":[["c2db83224ab6bd18","8f4ff325d9aedf86"]]},{"id":"d41befdd7bb1b140","type":"function","z":"519dbab73fd1530e","name":"Humidity","func":"global.set('hum',msg.payload.humidity)\nmsg.payload=msg.payload.humidity\nreturn msg;","outputs":1,"noerr":0,"initialize":"","finalize":"","libs":[],"x":340,"y":200,"wires":[["e387ae9a096c7515","8f4ff325d9aedf86"]]},{"id":"8066d29bdaa910d4","type":"function","z":"519dbab73fd1530e","name":"Temperature","func":"global.set('temp',msg.payload.temperature)\nmsg.payload=msg.payload.temperature\nreturn msg;","outputs":1,"noerr":0,"initialize":"","finalize":"","libs":[],"x":350,"y":320,"wires":[["95967621d6bc9d6d","8f4ff325d9aedf86"]]},{"id":"c2db83224ab6bd18","type":"ui_gauge","z":"519dbab73fd1530e","name":"","group":"468f109c135f4fc0","order":3,"width":0,"height":0,"gtype":"gage","title":"Soil Moisture","label":"units","format":"{{value}}","min":0,"max":10,"colors":["#00b500","#e6e600","#ca3838"],"seg1":"","seg2":"","x":550,"y":20,"wires":[]},{"id":"e387ae9a096c7515","type":"ui_gauge","z":"519dbab73fd1530e","name":"","group":"468f109c135f4fc0","order":2,"width":0,"height":0,"gtype":"gage","title":"Humidity","label":"units","format":"{{value}}","min":0,"max":10,"colors":["#00b500","#e6e600","#ca3838"],"seg1":"","seg2":"","x":540,"y":140,"wires":[]},{"id":"95967621d6bc9d6d","type":"ui_gauge","z":"519dbab73fd1530e","name":"","group":"468f109c135f4fc0","order":1,"width":0,"height":0,"gtype":"gage","title":"Temperature","label":"units","format":"{{value}}","min":0,"max":10,"colors":["#00b500","#e6e600","#ca3838"],"seg1"::

"","seg2":"","x":550,"y":260,"wires":[]},{"id":"8f4ff325d9aedf86","type":"debug","z":"519dba
b73fd1530e","name":"","active":true,"tosidebar":true,"console":false,"tostatus":false,"compl
ete":"payload","targetType":"msg","statusVal":"","statusType":"auto","x":810,"y":180,"wires"
:[]},{"id":"b8fc6212f2a81e43","type":"http
in","z":"519dbab73fd1530e","name":"","url":"/data","method":"get","upload":false,"swaggerDoc
":"","x":200,"y":460,"wires":[["e62342bb2ec20ec0"]]},{"id":"e62342bb2ec20ec0","type":"functi
on","z":"519dbab73fd1530e","name":"data","func":"msg.payload ={\n   \"soil_moisture\"
:global.get('moist'),\n   \"humidity\" :global.get('hum'),\n   \"temperature\"
:global.get('temp')\n}\nreturn
msg;","outputs":1,"noerr":0,"initialize":"","finalize":"","libs":[],"x":430,"y":460,"wires":
[["51c6508388838e60"]]},{"id":"51c6508388838e60","type":"http
response","z":"519dbab73fd1530e","name":"","statusCode":"","headers":{},"x":650,"y":460,"wir
es":[]},{"id":"2de9455b26f512d1","type":"ui_button","z":"519dbab73fd1530e","name":"","group"
:"5e21941aa4476972","order":2,"width":0,"height":0,"passthru":false,"label":"Motor
OFF","tooltip":"","color":"","bgcolor":"","icon":"","payload":"{\"command\" :
\"motoroff\"}","payloadType":"json","topic":"input1","topicType":"msg","x":270,"y":680,"wire
s":[["2633db9784b6d07e","93b51af219532e54"]]},{"id":"1003154f0ac6d791","type":"http
in","z":"519dbab73fd1530e","name":"","url":"/command","method":"get","upload":false,"swagger
Doc":"","x":300,"y":760,"wires":[["687fce544c8b122a","93b51af219532e54"]]},{"id":"2633db9784
b6d07e","type":"ibmiot
out","z":"519dbab73fd1530e","authentication":"apiKey","apiKey":"77503b1917bdca9f","outputTyp
e":"cmd","deviceId":"12345","deviceType":"NodeMCU","eventCommandType":"cmd","format":"json",
"data":"data","qos":0,"name":"IBM
IoT","service":"registered","x":640,"y":600,"wires":[]},{"id":"687fce544c8b122a","type":"htt
p
response","z":"519dbab73fd1530e","name":"","statusCode":"","headers":{},"x":610,"y":760,"wir
es":[]},{"id":"93b51af219532e54","type":"debug","z":"519dbab73fd1530e","name":"","active":tr
ue,"tosidebar":true,"console":true,"tostatus":false,"complete":"payload","targetType":"msg",
"statusVal":"","statusType":"auto","x":640,"y":680,"wires":[]},{"id":"2b1725924f6c3d4f","typ
e":"ui_button","z":"519dbab73fd1530e","name":"","group":"5e21941aa4476972","order":1,"width"
:0,"height":0,"passthru":false,"label":"Motor
ON","tooltip":"","color":"","bgcolor":"","icon":"","payload":"{\"command\":\"motoron\"}","pa
yloadType":"json","topic":"input0","topicType":"msg","x":280,"y":620,"wires":[["2633db9784b6
d07e","93b51af219532e54"]]},{"id":"77503b1917bdca9f","type":"ibmiot","name":"","keepalive":"
60","serverName":"","cleansession":true,"appId":"","shared":false},{"id":"468f109c135f4fc0",
"type":"ui_group","name":"","tab":"4217566a2c95cd5a","order":1,"disp":true,"width":"6","coll
apse":false},{"id":"5e21941aa4476972","type":"ui_group","name":"Motor
Switch","tab":"7578c6235b9507e9","order":2,"disp":true,"width":"6","collapse":false},{"id":"
4217566a2c95cd5a","type":"ui_tab","name":"Smart
Farming","icon":"dashboard","disabled":false,"hidden":false},{"id":"7578c6235b9507e9","type"
:"ui_tab","name":"Motor","icon":"dashboard","disabled":false,"hidden":false}]