

DEVELOP A WEB APPLICATION USING NODE-RED SERVICE

Develop a Web application using NODE-RED

Date : 04 November 2022

Team ID : PNT2022TMID51479

Project Name Project- SIGNS WITH SMART CONNECTIVITY FOR BETTER ROAD SAFETY

IBM Cloud Account

cloud.ibm.com/account/cloud-foundry

IBM Cloud

Search resources and products...

Catalog Manage Muthu Lekshmi's Acco...

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

IBM Cloud Foundry Public is being deprecated. Please see [full details](#).

Create

Name	Date Created	Spaces	Roles	Actions
Muthulekshmi	11/8/2022	1	Manager	

Activate Windows
Go to Settings to activate Windows.

Search the web and Windows

12:36 PM
11/12/2022

Service Details - IBM Cloud

cloud.ibm.com/services/iotf-service/crn%3Aav1%3Abluemix%3Apublic%3Aiotf-service%3Aeu-de%3Aa%2Fa5e2846c0ad64399913f2999af8571da%3Af2f96796-fabc-402d...

IBM Cloud

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Muthu Lekshmi's Acco...

Resource list /

Internet of Things Platform-ua

Active

Add tags

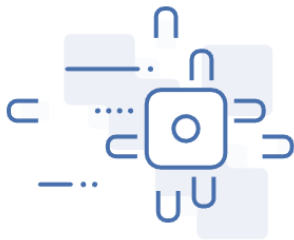
Details

Actions...

Manage

Plan

Connections



Let's get started with IBM Watson IoT Platform

Securely connect, control, and manage devices. Quickly build IoT applications that analyze data from the physical world.

Launch

Docs

Ready for the next level?

IBM Watson IoT Platform Journey

✓

Lite

The Lite service plan provides a lightweight development environment to get you started

Non-Production

The Non-Production service plan is a full-featured, fully-integrated offering that enables

Production

The Production service is a fully managed SaaS offering that enables you to manage and analyze

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IBM App Development

IBM Watson IoT Platform

cloud.ibm.com/developer/appservice/create-app?starterKit=59c9d5bd-4d31-3611-897a-f94eea80dc9f&defaultLanguage=undefined

IBM Cloud

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Muthu Lekshmi's Acco...

Catalog / Create app /

Node-RED

About

Create

Details

Author IBM

Updated 2/11/2020

Type Starter kit

Source code

GitHub

Helpful links

Terms

Tutorial


Overview

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

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ASK A QUESTION

App name

Accept the default name, or enter a value between 2 and 128 characters.

Resource group

Tags ⓘ

Platform

☒ Node.js

Go to Settings to activate Windows.

[Resource list](#) / [App details](#) /Add tags

Details

Figure 1 displays a 2x6 grid of bar charts showing the percentage of respondents who believe the U.S. should take action to reduce greenhouse gas emissions. The rows represent 'U.S. should take action' (Yes/No) and the columns represent 'U.S. should take action' (Yes/No). The bars are color-coded: light gray for 'U.S. should take action' and dark gray for 'U.S. should not take action'.

U.S. should take action	U.S. should take action	U.S. should take action	U.S. should take action	U.S. should take action	U.S. should take action
Yes	Yes	Yes	Yes	Yes	Yes
No	No	No	No	No	No

Services

 Cloudant

[Open dashboard](#) [Documentation](#) [API reference](#)

Credentials 

Connect existing services +

Create service +

Deployment Automation



Configure Continuous Delivery

Continuous Delivery is not enabled for this app. Enable Continuous Delivery to automate builds, tests, and deployments through Delivery Pipeline, GitLab, and more.

Deploy your app

✓ Success!
Created app Node RED
NZUYX 2022-11-12
11/12/2022, 12:43:07
PM

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IBM App Development

IBM Watson IoT Platform

+

cloud.ibm.com/developer/appservice/apps/674034c9-ea9e-4d67-84c0-a54619a137bb

IBM Cloud

Search resources and products...

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Manage

Muthu Lekshmi's Acco...

IBM Cloud API key

.....

New

Number of instances

1

Memory allocation per instance

64 MB

2000 MB

256

Region

London

Organization

Muthulekshmi

Space

Purple

Host

node-red-nzuyx-2022-11-12

Domain

eu-gb.mybluemix.net

Cancel

Next

ASK A QUESTION

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cloud.ibm.com/developer/appservice/apps/674034c9-ea9e-4d67-84c0-a54619a137bb

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Resource list / App details /

Node RED NZUYX 2022-11-12

Select the deployment target

Configure the DevOps toolchain

Configure the DevOps toolchain

Give your toolchain a name and select the region to create your toolchain in.

DevOps toolchain name

NodeREDNZUYX2022-11-12

Accept the default name, or enter a value up to 100 characters.

Region

Dallas

Back

Create

ASK A QUESTION

Getting started with apps

Step 2. Configure the DevOps toolchain

The DevOps toolchain includes a Delivery Pipeline tool where you can check the deployment status, start builds, manage deployment, and view logs and history.

1. Provide a name for your toolchain.
2. Select the region where your toolchain is created.
3. Select the resource group that has access to your new toolchain. [Learn more.](#)
4. After you're finished with your selections, click **Create**.

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IBM App Development

IBM Watson IoT Platform

cloud.ibm.com/developer/appservice/apps/674034c9-aa9e-4d67-84c0-a54619a137bb

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Resource list / App details /

Node RED NZUYX 2022-11-12

Add tags

Actions...

Details

App URL

You must deploy your app first

Source

Download code

Resource group

Default

Deployment target

You must deploy your app first

Created

11/12/2022

Services

Cloudant

Open dashboard

Documentation

API reference

Credentials

Connect existing services

Create service

Deployment Automation

Name

NodeREDNZUYX2022-11-12

Location

Dallas

Tool integrations

Delivery Pipelines

Name

pr-pipeline

Status

No stages detected

Name

ci-pipeline

Status

No stages detected

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

IBM-Project-42700-1660707 x IBM Watson IoT Platform x IBM App Development x Node-RED : node-red-ahoyv x ci-pipeline Dashboard x

node-red-ahoyv-2022-11-12.eu-gb.mybluemix.net/red/#flow/c4186ca40f24f6c1

Node-RED

filter nodes

common

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

function

- function
- switch

Flow 1

```
graph LR; inject[inject] --> hello[Hello Node-RED!]; hello --> payload[msg.payload];
```

info

Search flows

- Flows
 - Flow 1
- Subflows
- Global Configuration Nodes

Flow 1

Flow: "c4186ca40f24f6c1"

You can manage your palette of nodes with **alt+up**

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Search the web and Windows

IBM-Project-42700-1660707 x IBM Watson IoT Platform x IBM App Development x Node-RED : node-red-ahoyv x ci-pipeline Dashboard x

node-red-ahoyv-2022-11-12.eu-gb.mybluemix.net/red/#flow/c4186ca40f24f6c1

Node-RED

filter nodes

common

- inject
- debug
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- link call
- link out
- comment

function

- function
- switch

Flow 1

```
graph LR; payload[msg.payload] --> hello[Hello Node-RED!];
```

debug

all nodes | all

Time	Node ID	Message
11/12/2022, 8:31:08 PM	node: f2f2649a.0d0d98	msg.payload : string[15] "Hello Node-RED!"
11/12/2022, 8:31:49 PM	node: f2f2649a.0d0d98	msg.payload : string[15] "Hello Node-RED!"
11/12/2022, 8:31:49 PM	node: f2f2649a.0d0d98	msg.payload : string[15] "Hello Node-RED!"
11/12/2022, 8:32:12 PM	node: f2f2649a.0d0d98	msg.payload : string[15] "Hello Node-RED!"
11/12/2022, 8:32:44 PM	node: f2f2649a.0d0d98	msg.payload : string[15] "Hello Node-RED!"

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node-red-ahoyv-2022-11-12.eu-gb.mybluemix.net/red/#flow/c4186ca40f24f6c1

Node-RED

Flow 1

filter nodes

- switch
- numeric
- slider
- colour picker
- form
- text input
- text
- chart
- gauge
- date picker
- notification
- audio out
- template
- ui control

IBM IoT (connected)

temp

Humid

Moisture

msg payload

temp

Humid

Soil moisture

dashboard

Layout Site Theme

Tabs & Links

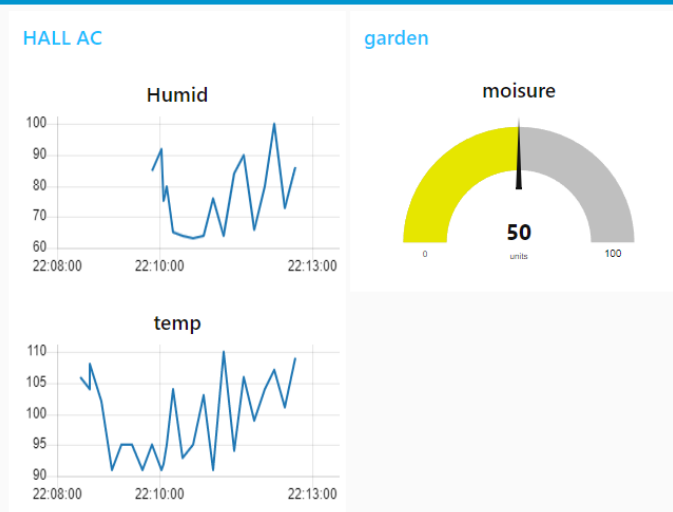
- Smart Home
 - HALL AC
 - garden

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Search the web and Windows

node-red-ahoyv-2022-11-12.eu-gb.mybluemix.net/ui/#/0?socketid=tlG0W0zVyMIVYCD6AAAD

Smart Home



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