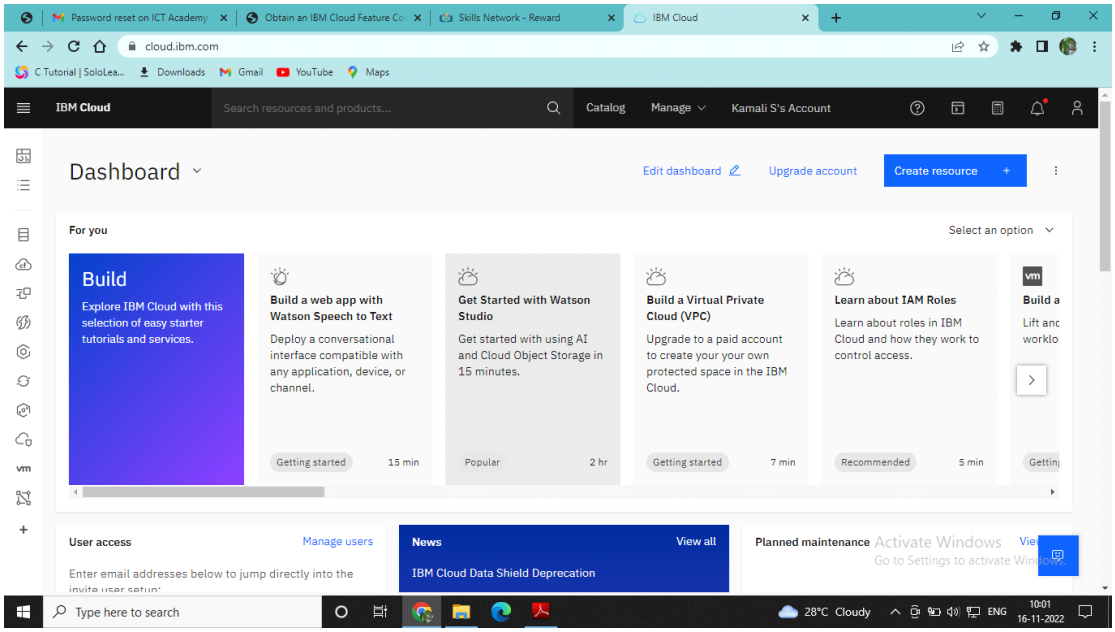
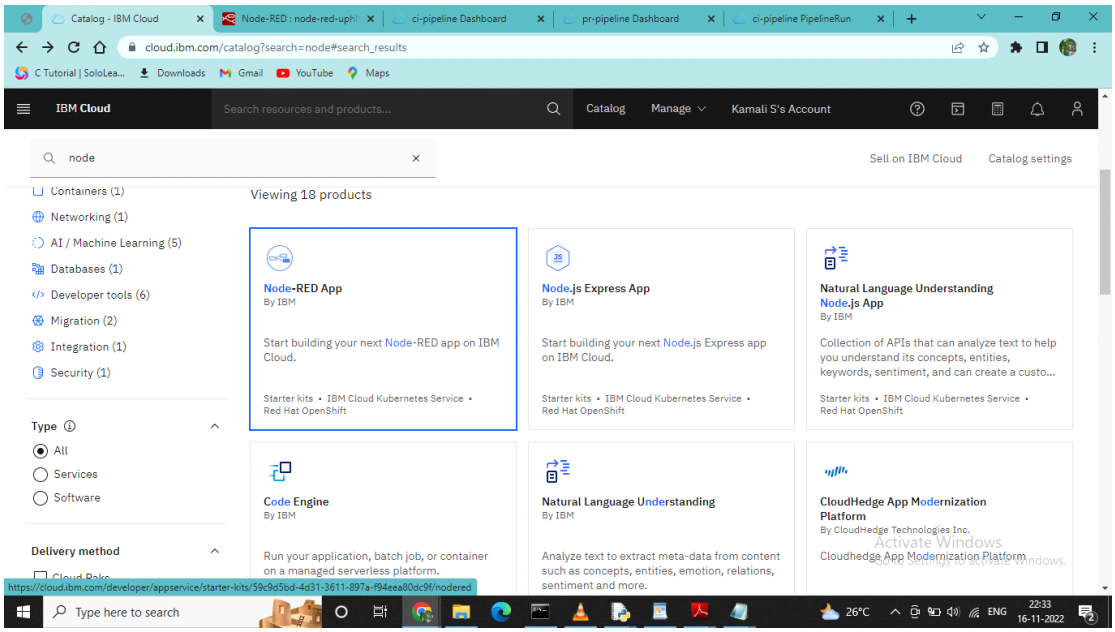
Name	Kamali .S
Team ID	PNT2022TMID25311
Date	16/11/2022
Project Name	Smart Waste Management System for metropolitan cities

Create Node Red service

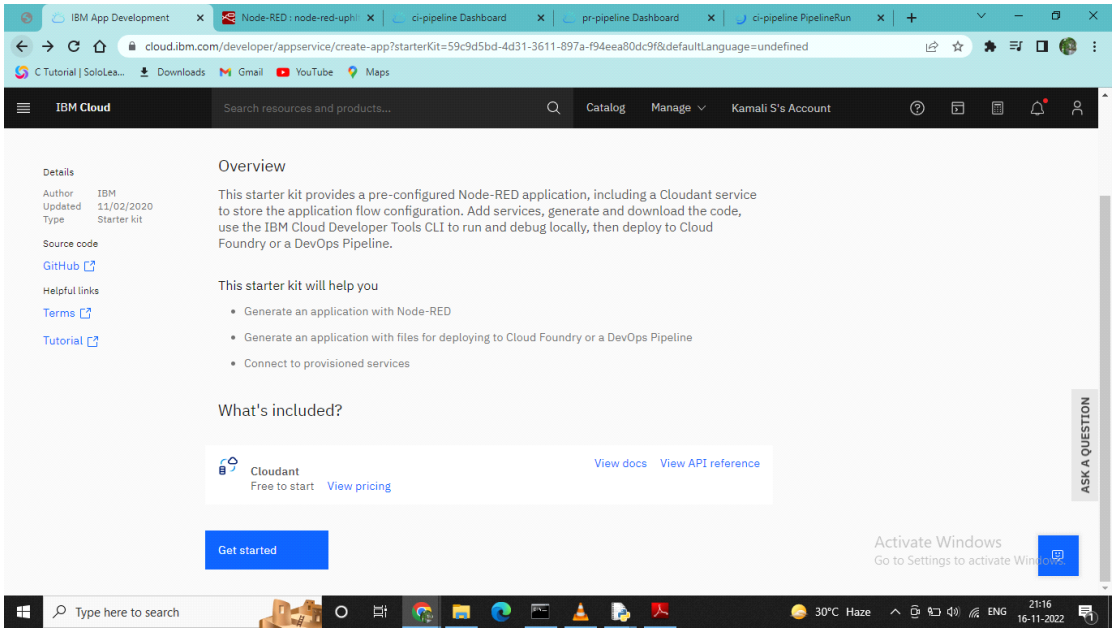
Step 1: Login into IBM CLOUD account

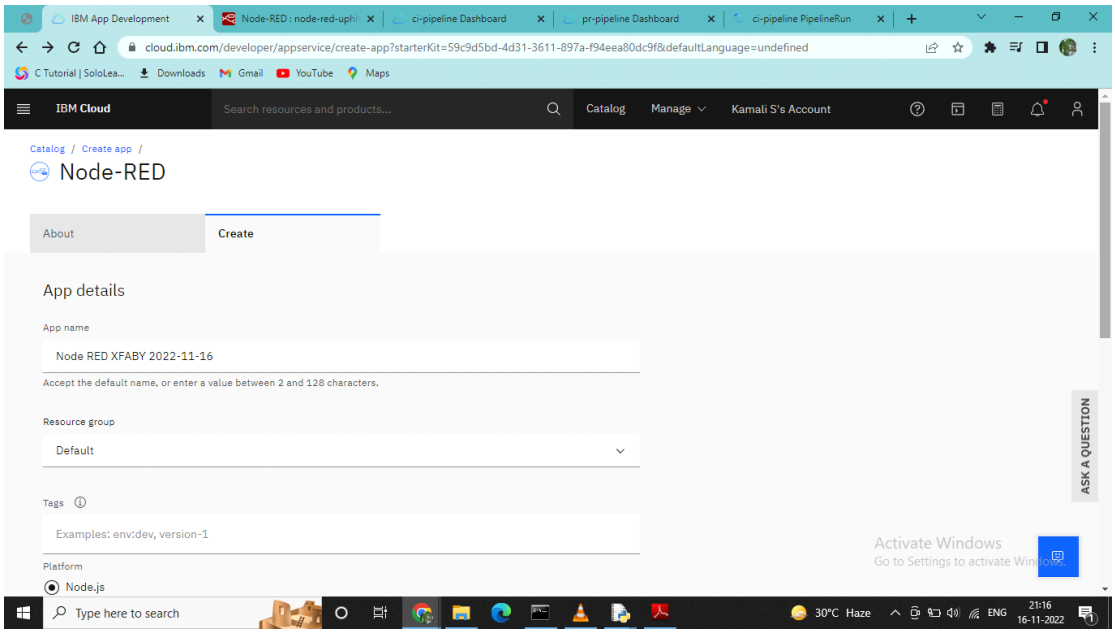


Step2: In catalog, search for node red application

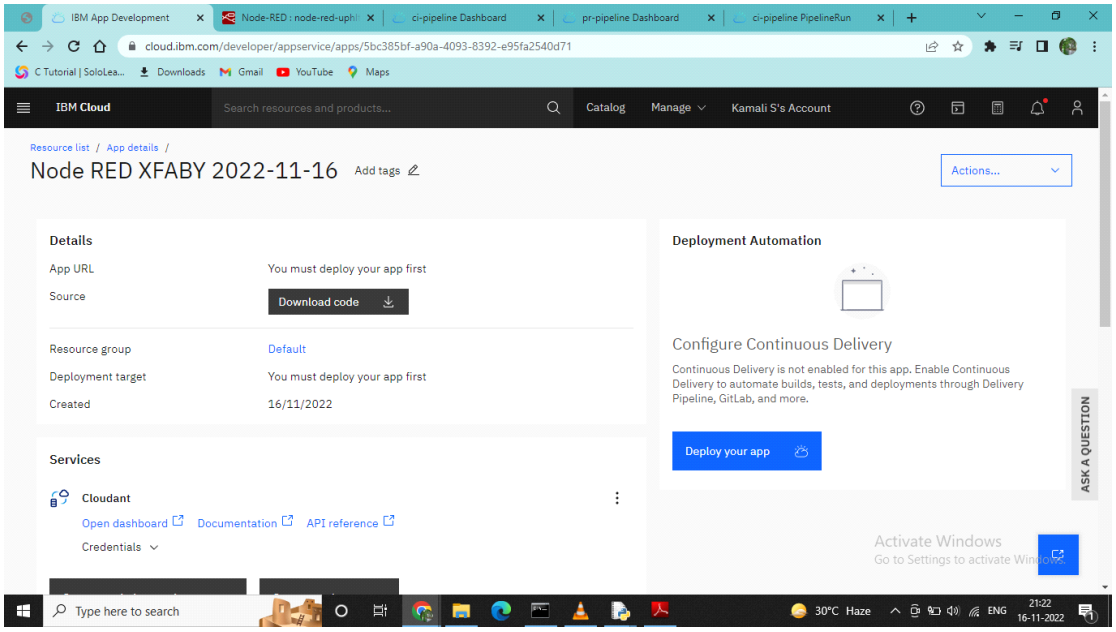


Step 3: Enter the project details and click on create



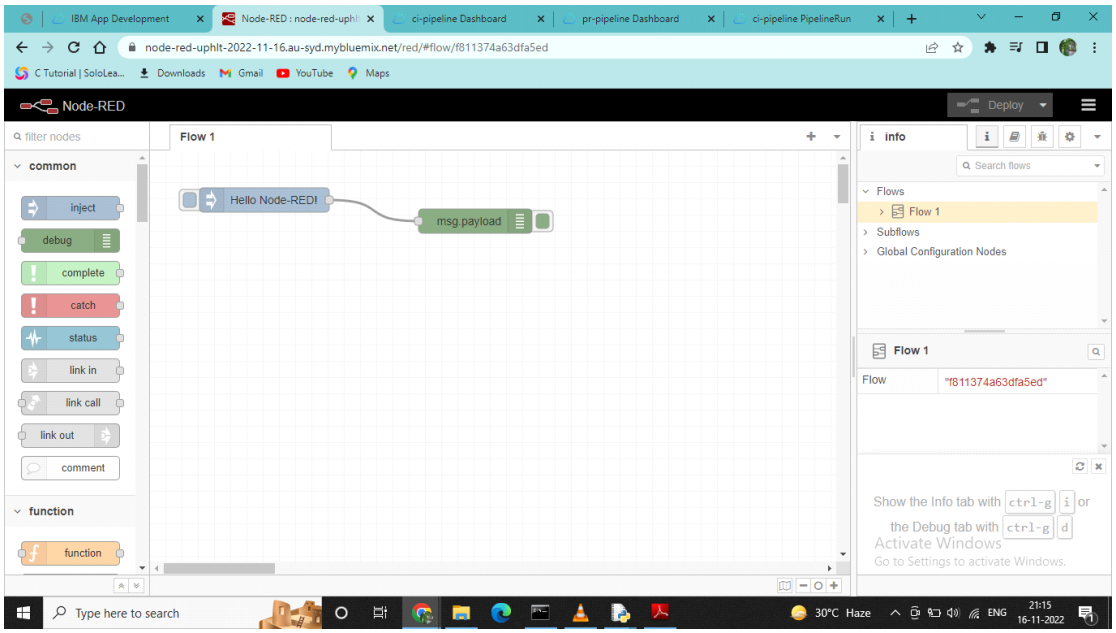


Step 4: click on deploy option and deploy

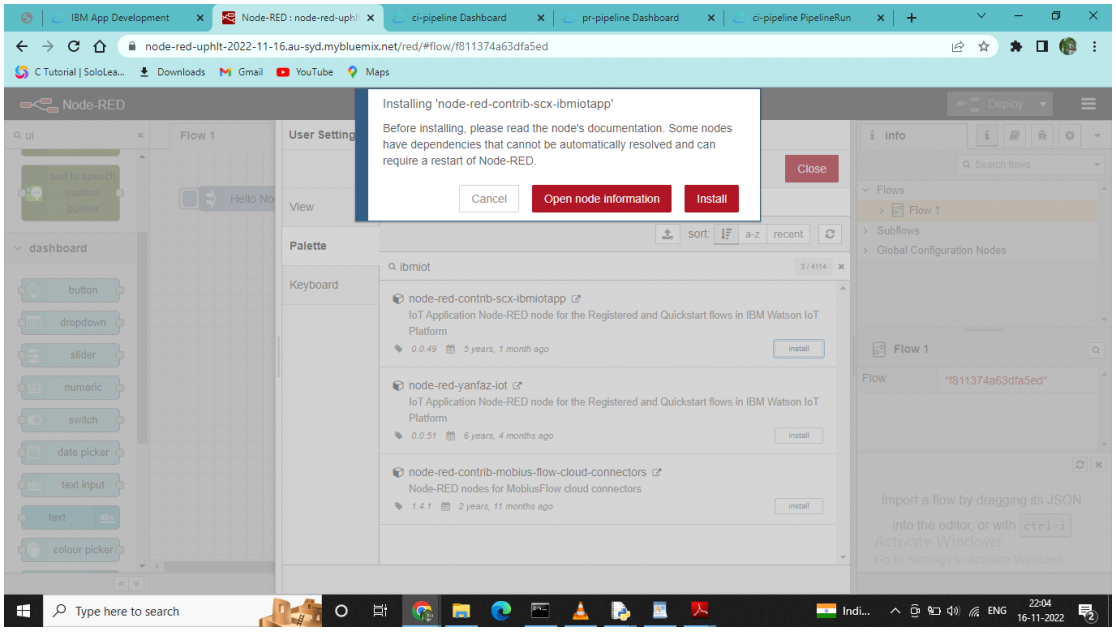


Step 5: Set up the environment for deploying and click on create

Step 6: Now drag and drop the nodes and connect nodes with IOT Watson platform



Step 7: setup the settings that connects node red service with Watson IOT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Node-RED : node-red-uphl
ci-pipeline Dashboard
pr-pipeline Dashboard
ci-pipeline PipelineRun
node-red-uphlt-2022-11-16.au-syd.mybluemix.net/red/#flow/f811374a63dfa5ed
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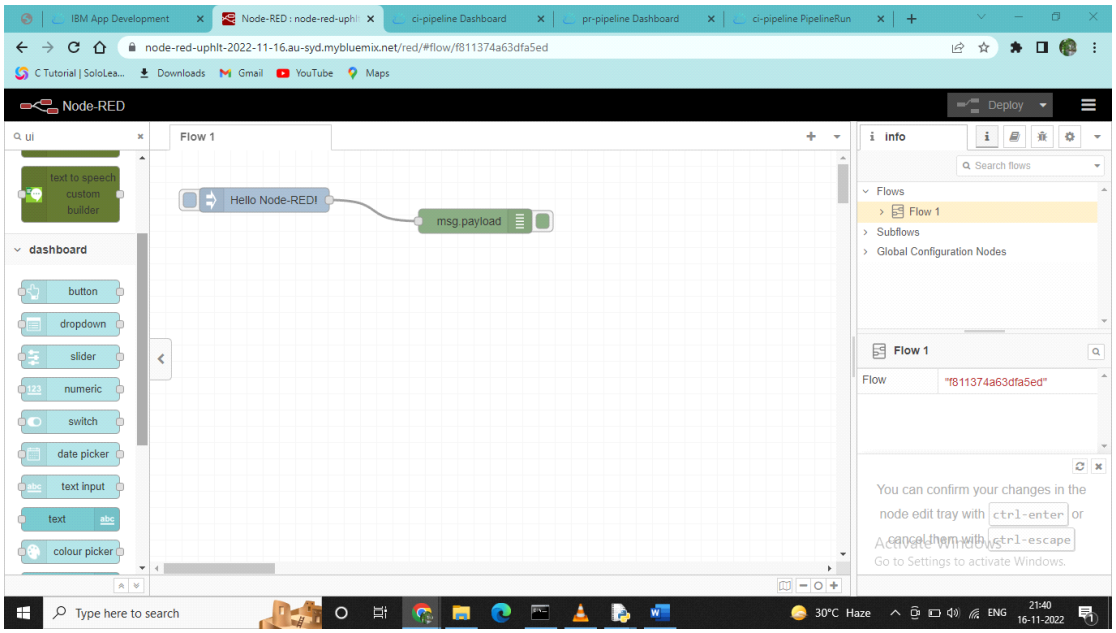
Node-RED
Deploy
Installing 'node-red-contrib-scx-ibmiotapp'
Before installing, please read the node's documentation. Some nodes have dependencies that cannot be automatically resolved and can require a restart of Node-RED.
Cancel
Open node information
Install
Close
User Setting
View
Palette
Keyboard
ibmiot
node-red-contrib-scx-ibmiotapp
IoT Application Node-RED node for the Registered and Quickstart flows in IBM Watson IoT Platform
node-red-yanfaz-iot
IoT Application Node-RED node for the Registered and Quickstart flows in IBM Watson IoT Platform
node-red-contrib-mobius-flow-cloud-connectors
Node-RED nodes for MobiusFlow cloud connectors
Flow 1
info
Flows
Subflows
Global Configuration Nodes
Import a flow by dragging its JSON into the editor, or with ctrl-i
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG
22:04
16-11-2022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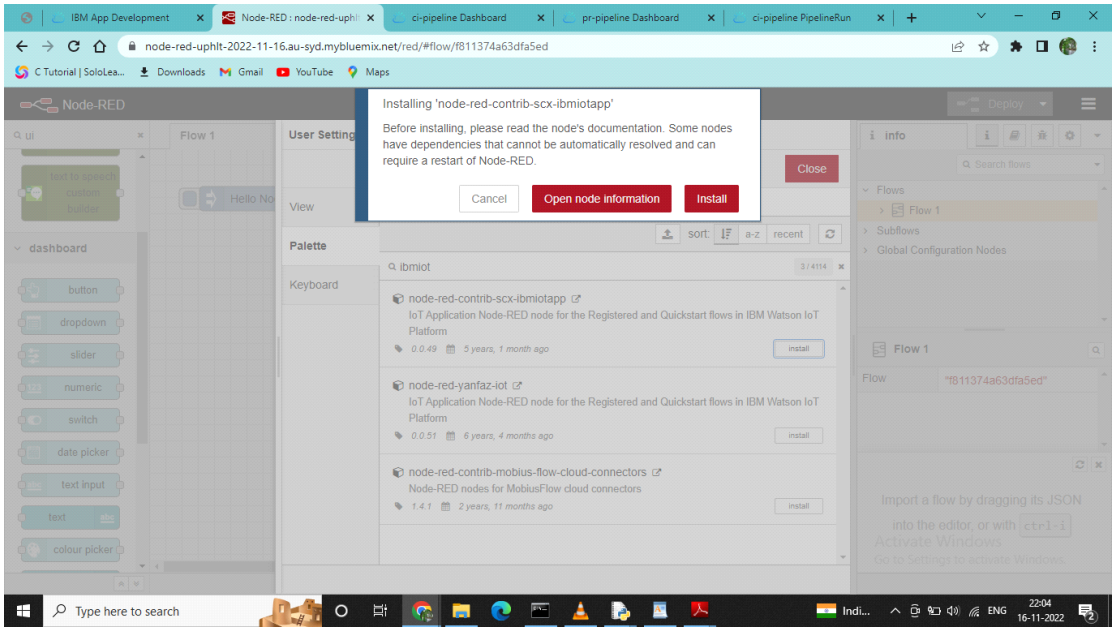
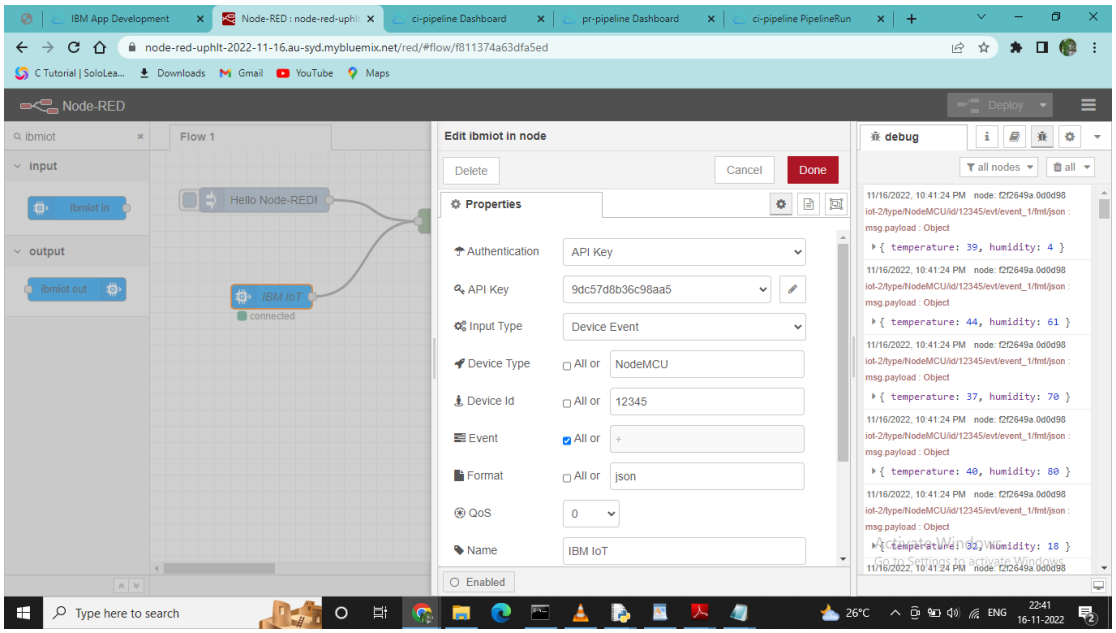
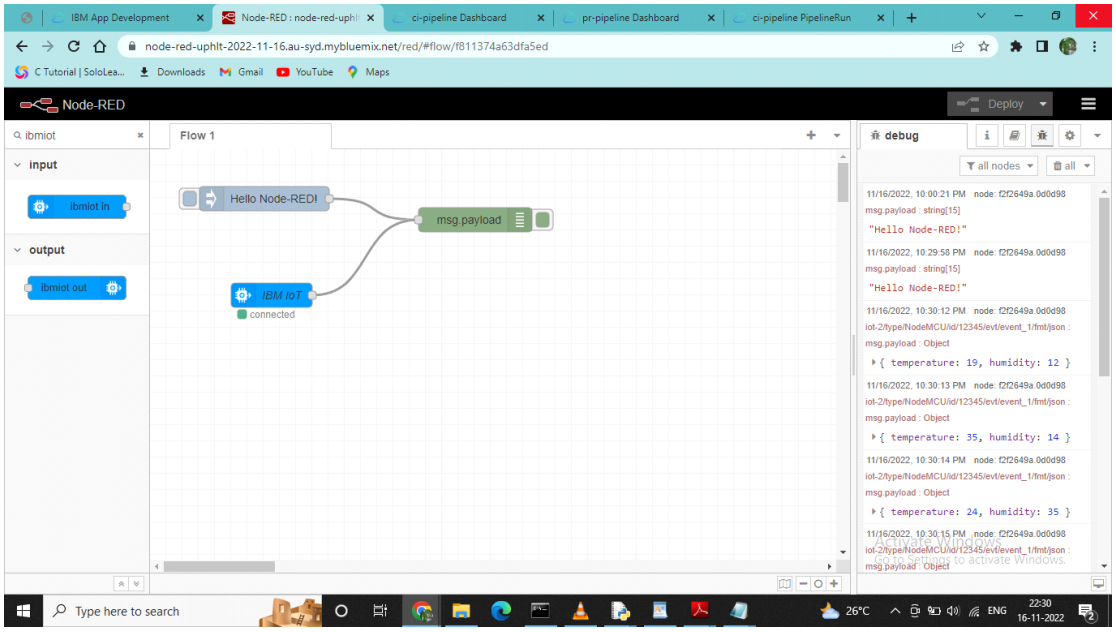
dashboard
button
dropdown
slider
numeric
switch
date picker
text input
text
colour picker
Flow 1
Hello Node-RED!
msg.payload
info
Flows
Flow 1
Subflows
Global Configuration Nodes
Flow
"f811374a63dfa5ed"
You can confirm your changes in the node edit tray with ctrl-enter or cancel them with ctrl-escape
Activate Windows
Go to Settings to activate Windows.
Type here to search
30°C Haze
ENG
21:40
16-11-2022





Step 8: Finally, output can be seen in node red service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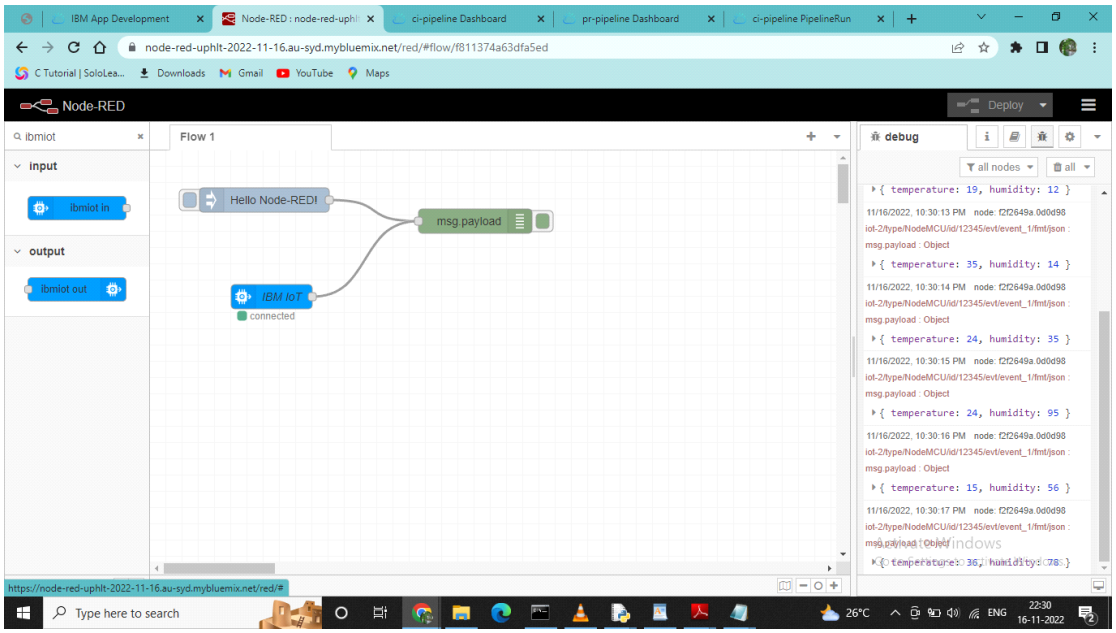
Node-RED
Deploy
ibmiot
input
ibmiot in
output
ibmiot out
Flow 1
Hello Node-RED!
msg.payload
IBM IoT
connected
debug
all nodes
all
11/16/2022, 10:00:21 PM node: f2f2649a.0d0d98
msg.payload : string[15]
"Hello Node-RED!"
11/16/2022, 10:29:58 PM node: f2f2649a.0d0d98
msg.payload : string[15]
"Hello Node-RED!"
11/16/2022, 10:30:12 PM node: f2f2649a.0d0d98
iot-2/type/NodeMCU/id/12345/evt/event_1/fmt/json :
msg.payload : Object
{ temperature: 19, humidity: 12 }
11/16/2022, 10:30:13 PM node: f2f2649a.0d0d98
iot-2/type/NodeMCU/id/12345/evt/event_1/fmt/json :
msg.payload : Object
{ temperature: 35, humidity: 14 }
11/16/2022, 10:30:14 PM node: f2f2649a.0d0d98
iot-2/type/NodeMCU/id/12345/evt/event_1/fmt/json :
msg.payload : Object
{ temperature: 24, humidity: 35 }
11/16/2022, 10:30:15 PM node: f2f2649a.0d0d98
iot-2/type/NodeMCU/id/12345/evt/event_1/fmt/json :
msg.payload : Object
Activate Windows
Go to Settings to activate Windows.
Type here to search
26°C
ENG
22:30
16-11-2022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Node-RED
Deploy
ibmiot
input
ibmiot in
output
ibmiot out
Flow 1
Hello Node-RED!
msg.payload
IBM IoT
connected
debug
all nodes
all
{ temperature: 19, humidity: 12 }
11/16/2022, 10:30:13 PM node: f2f2649a.0d0d98
iot-2/type/NodeMCU/id/12345/evt/event_1/fmt/json :
msg.payload : Object
{ temperature: 35, humidity: 14 }
11/16/2022, 10:30:14 PM node: f2f2649a.0d0d98
iot-2/type/NodeMCU/id/12345/evt/event_1/fmt/json :
msg.payload : Object
{ temperature: 24, humidity: 35 }
11/16/2022, 10:30:15 PM node: f2f2649a.0d0d98
iot-2/type/NodeMCU/id/12345/evt/event_1/fmt/json :
msg.payload : Object
{ temperature: 24, humidity: 95 }
11/16/2022, 10:30:16 PM node: f2f2649a.0d0d98
iot-2/type/NodeMCU/id/12345/evt/event_1/fmt/json :
msg.payload : Object
{ temperature: 15, humidity: 56 }
11/16/2022, 10:30:17 PM node: f2f2649a.0d0d98
iot-2/type/NodeMCU/id/12345/evt/event_1/fmt/json :
msg.payload : Object
{ temperature: 36, humidity: 78 }
Activate Windows
https://node-red-uphlt-2022-11-16.au-syd.mybluemix.net/red/#
Type here to search
26°C
ENG
22:30
16-11-2022