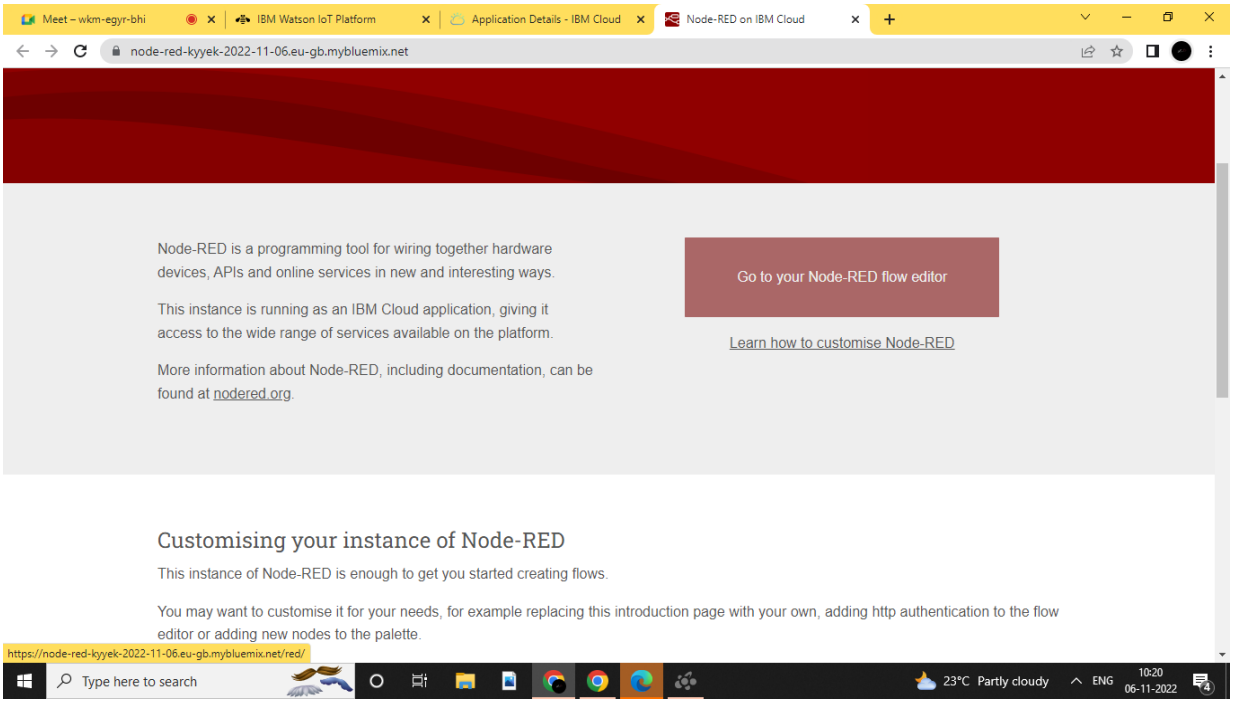
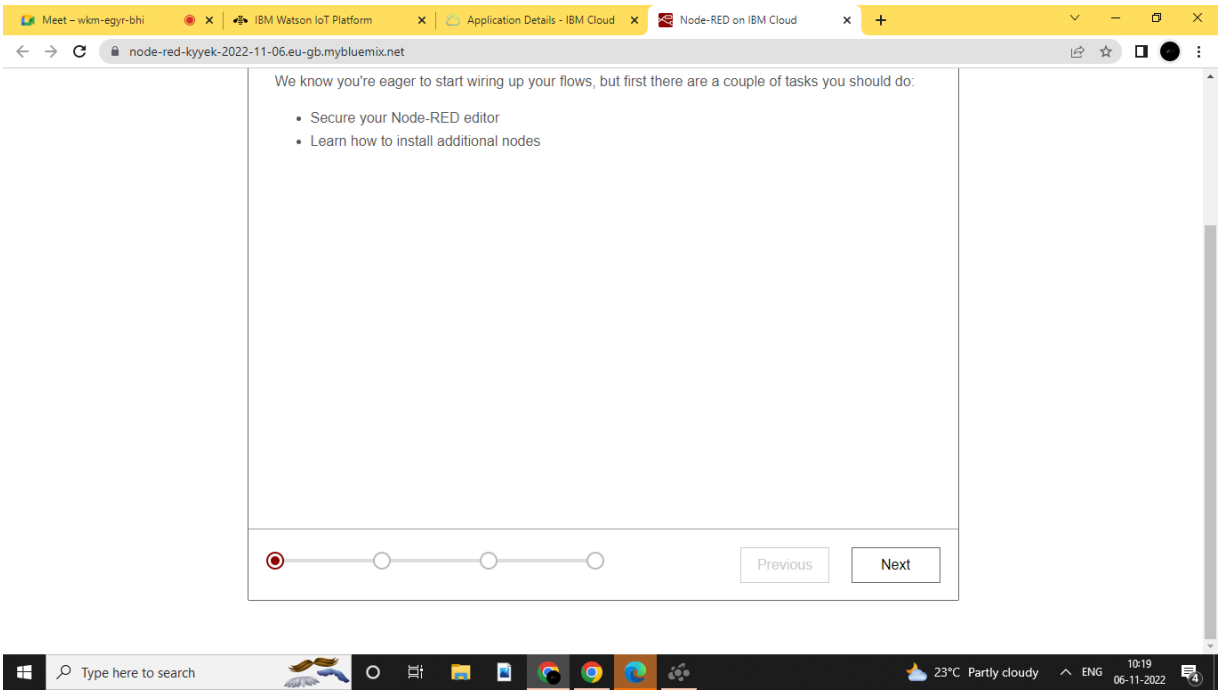
Develop a web application using Node RED to view data separately

Date	**4th November 2022**
Team ID	**PNT2022TMID43020**
Project Name	**Smart Farmer- IoT Enabled Smart Farming Application**

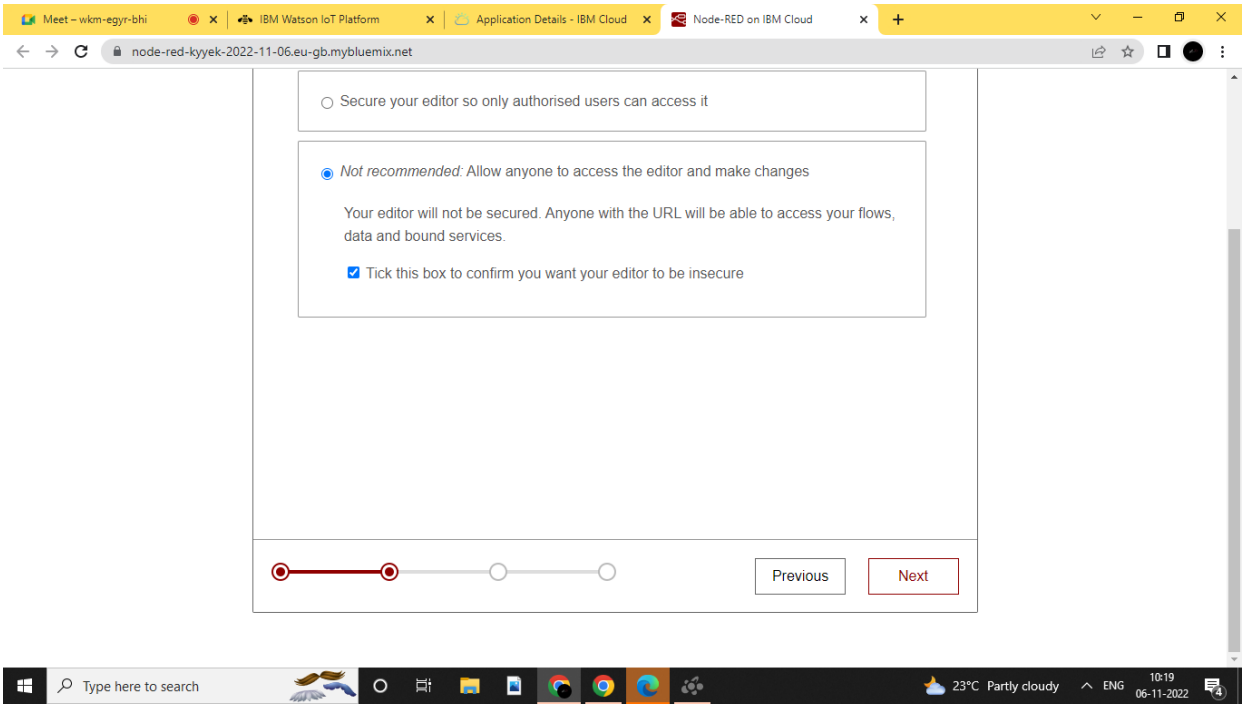
Step 1:



Step 2:


Meet – wkm-egyr-bhi
IBM Watson IoT Platform
Application Details - IBM Cloud
Node-RED on IBM Cloud
node-red-kyyek-2022-11-06.eu-gb.mybluemix.net
We know you're eager to start wiring up your flows, but first there are a couple of tasks you should do:
Secure your Node-RED editor
Learn how to install additional nodes
Previous
Next
Type here to search
23°C Partly cloudy
ENG
10:19
06-11-2022

Step 3:


Meet – wkm-egyr-bhi
IBM Watson IoT Platform
Application Details - IBM Cloud
Node-RED on IBM Cloud
node-red-kyyek-2022-11-06.eu-gb.mybluemix.net
Secure your editor so only authorised users can access it
Not recommended: Allow anyone to access the editor and make changes
Your editor will not be secured. Anyone with the URL will be able to access your flows, data and bound services.
Tick this box to confirm you want your editor to be insecure
Previous
Next
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ENG
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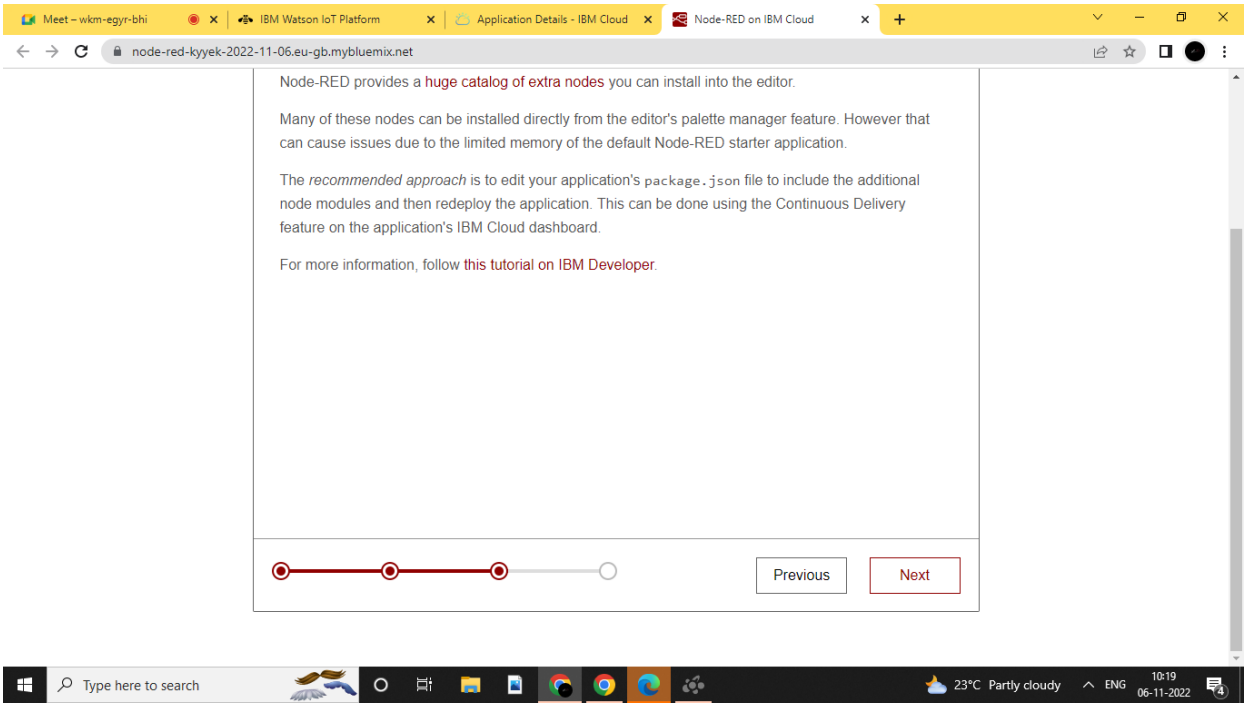
06-11-2022

Step 4:


Meet – wkm-egyr-bhi
IBM Watson IoT Platform
Application Details - IBM Cloud
Node-RED on IBM Cloud
node-red-kyyek-2022-11-06.eu-gb.mybluemix.net
Node-RED provides a huge catalog of extra nodes you can install into the editor.
Many of these nodes can be installed directly from the editor's palette manager feature. However that can cause issues due to the limited memory of the default Node-RED starter application.
The recommended approach is to edit your application's package.json file to include the additional node modules and then redeploy the application. This can be done using the Continuous Delivery feature on the application's IBM Cloud dashboard.
For more information, follow this tutorial on IBM Developer.
Previous
Next
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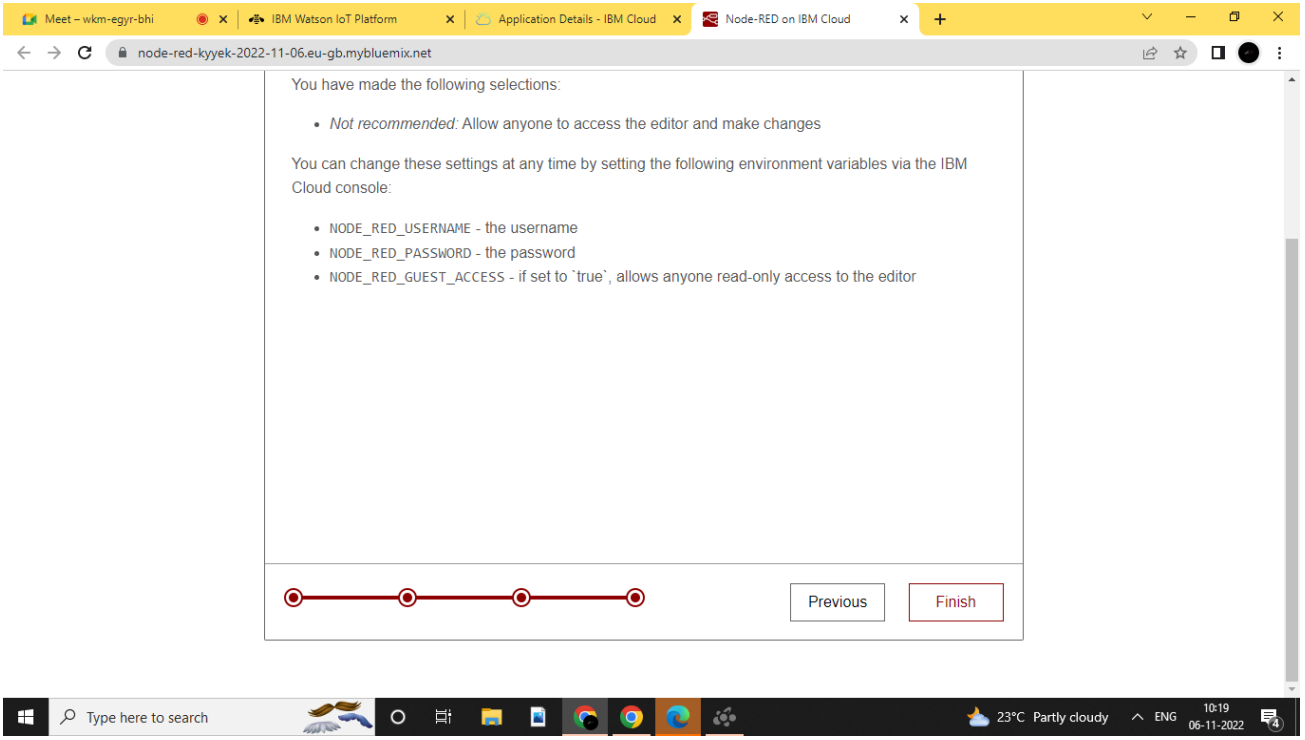
06-11-2022

Step 5:


Meet – wkm-egyr-bhi
IBM Watson IoT Platform
Application Details - IBM Cloud
Node-RED on IBM Cloud
node-red-kyyek-2022-11-06.eu-gb.mybluemix.net
You have made the following selections:
Not recommended: Allow anyone to access the editor and make changes
You can change these settings at any time by setting the following environment variables via the IBM Cloud console:
NODE_RED_USERNAME - the username
NODE_RED_PASSWORD - the password
NODE_RED_GUEST_ACCESS - if set to `true`, allows anyone read-only access to the editor
Previous
Finish
Type here to search
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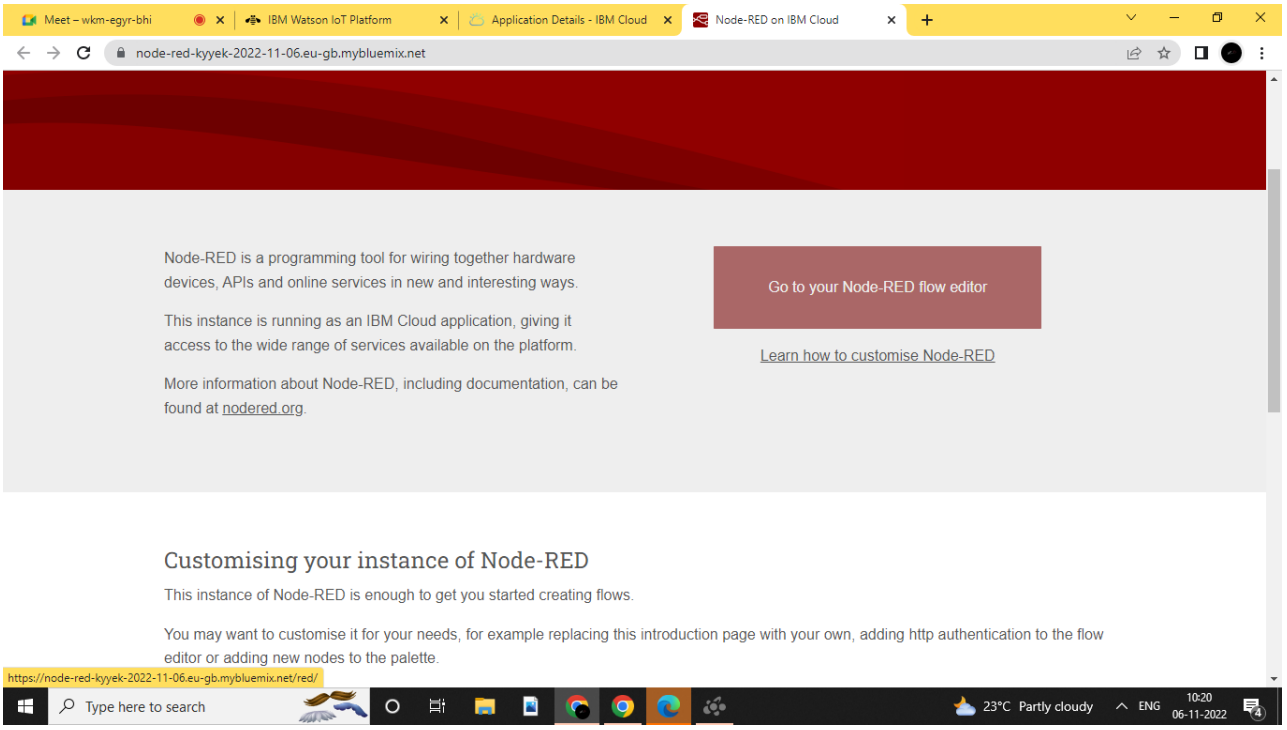
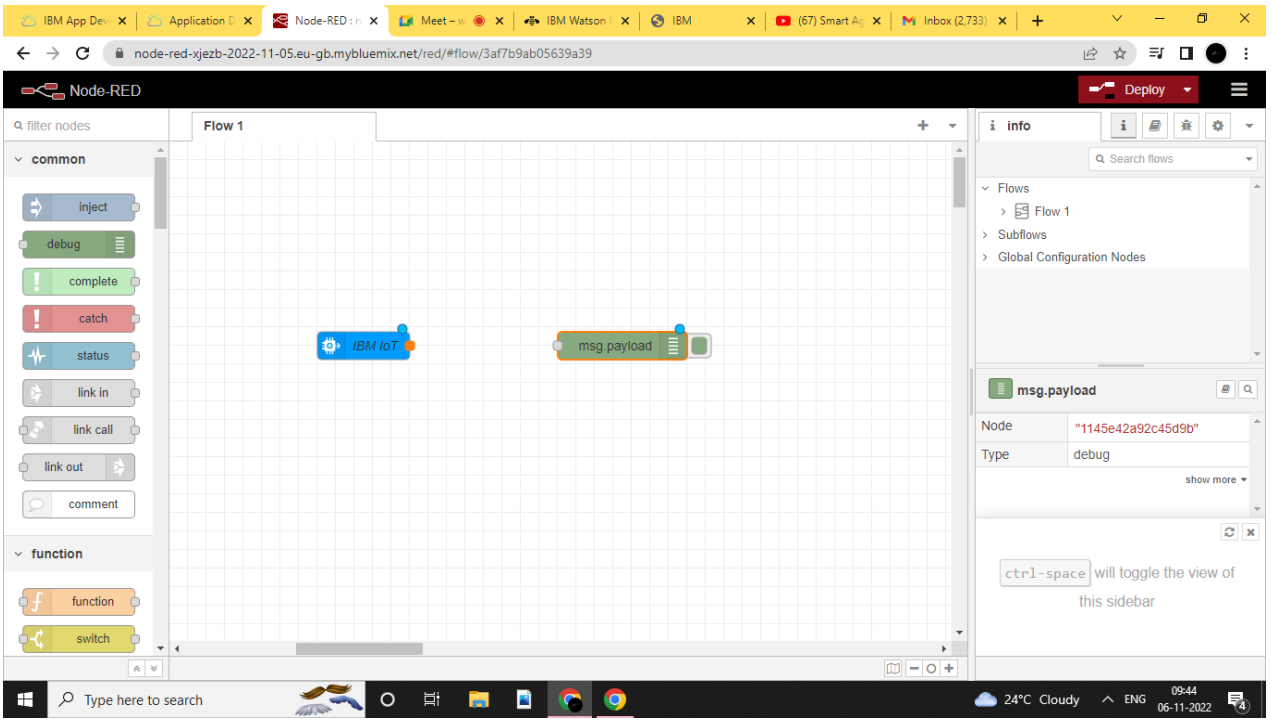
ENG
10:19
06-11-2022

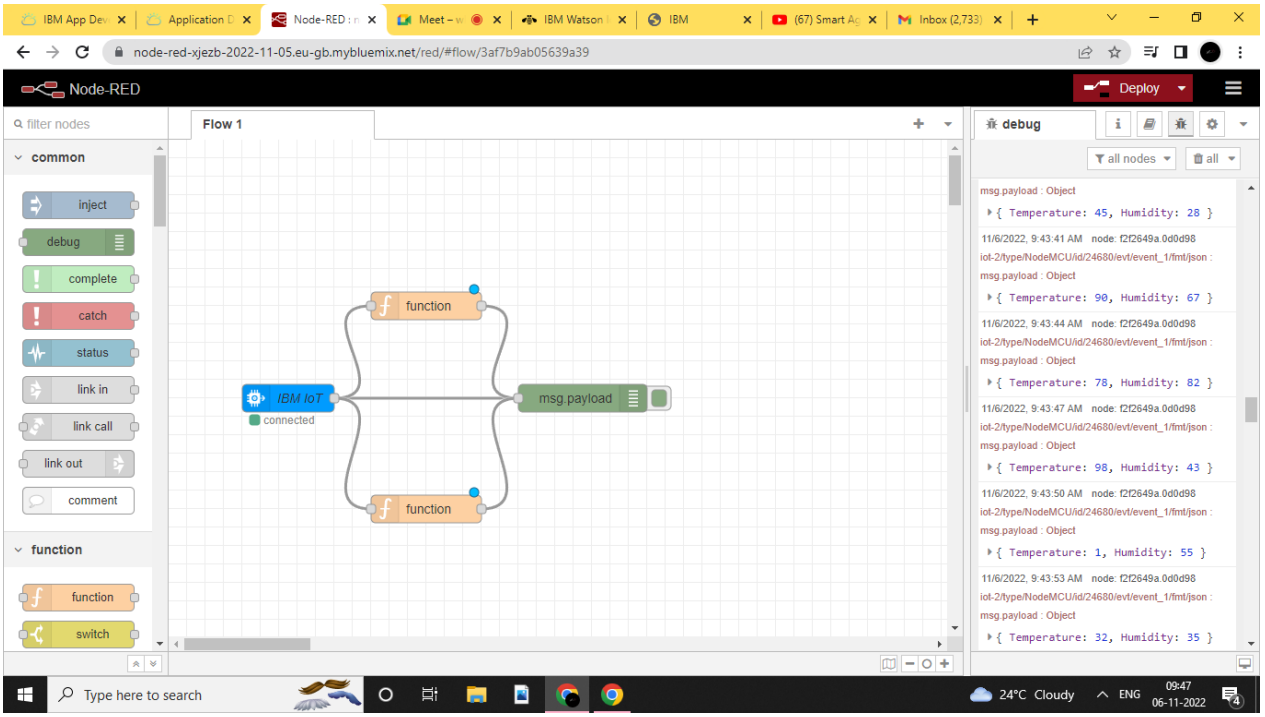
Step 6:


Meet – wkm-egyr-bhi
IBM Watson IoT Platform
Application Details - IBM Cloud
Node-RED on IBM Cloud
node-red-kyyek-2022-11-06.eu-gb.mybluemix.net
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
Customising your instance of Node-RED
This instance of Node-RED is enough to get you started creating flows.
You may want to customise it for your needs, for example replacing this introduction page with your own, adding http authentication to the flow editor or adding new nodes to the palette.
https://node-red-kyyek-2022-11-06.eu-gb.mybluemix.net/red/
Type here to search
23°C Partly cloudy
ENG
10:20
06-11-2022

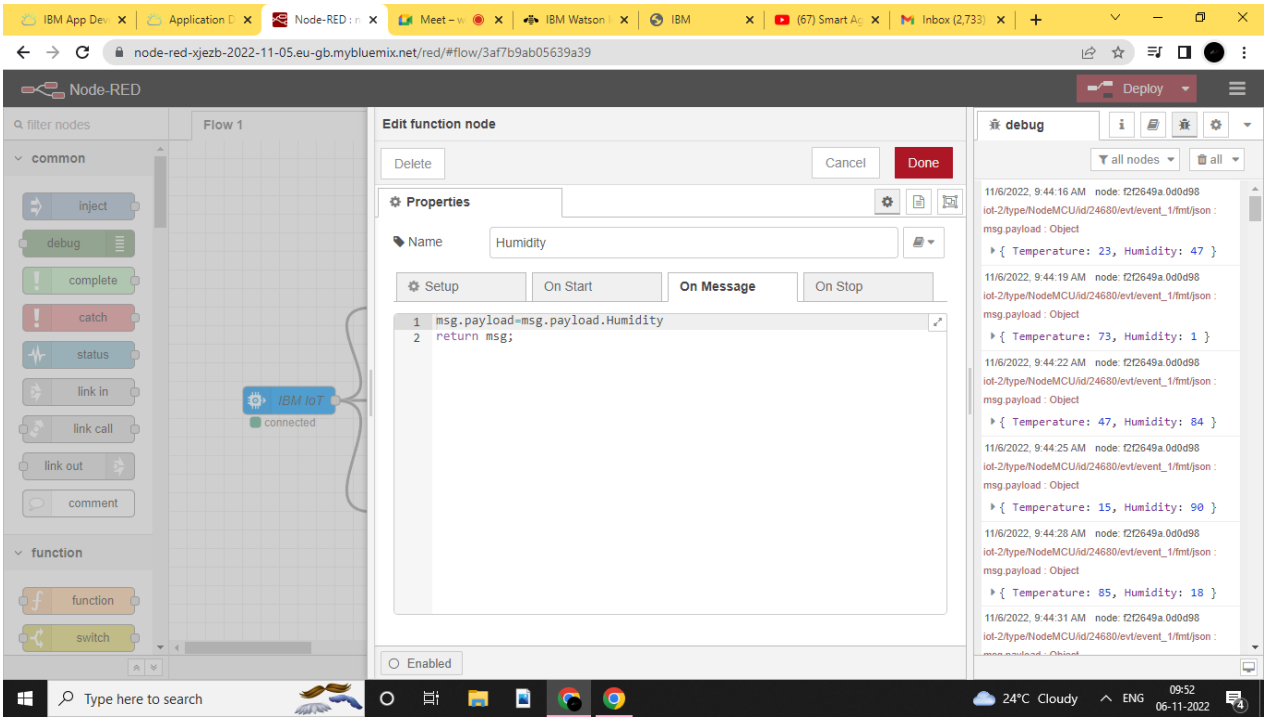
Step 7:


node-red-xjezb-2022-11-05.eu-gb.mybluemix.net/red/#flow/3af7b9ab05639a39
Node-RED
Deploy
filter nodes
Flow 1
common
inject
debug
complete
catch
status
link in
link call
link out
comment
function
function
switch
IBM IoT
msg payload
info
Search flows
Flows
Flow 1
Subflows
Global Configuration Nodes
msg.payload
Node
"1145e42a92c45d9b"
Type
debug
show more
ctrl-space will toggle the view of this sidebar
Type here to search
24°C Cloudy
ENG
09:44
06-11-2022

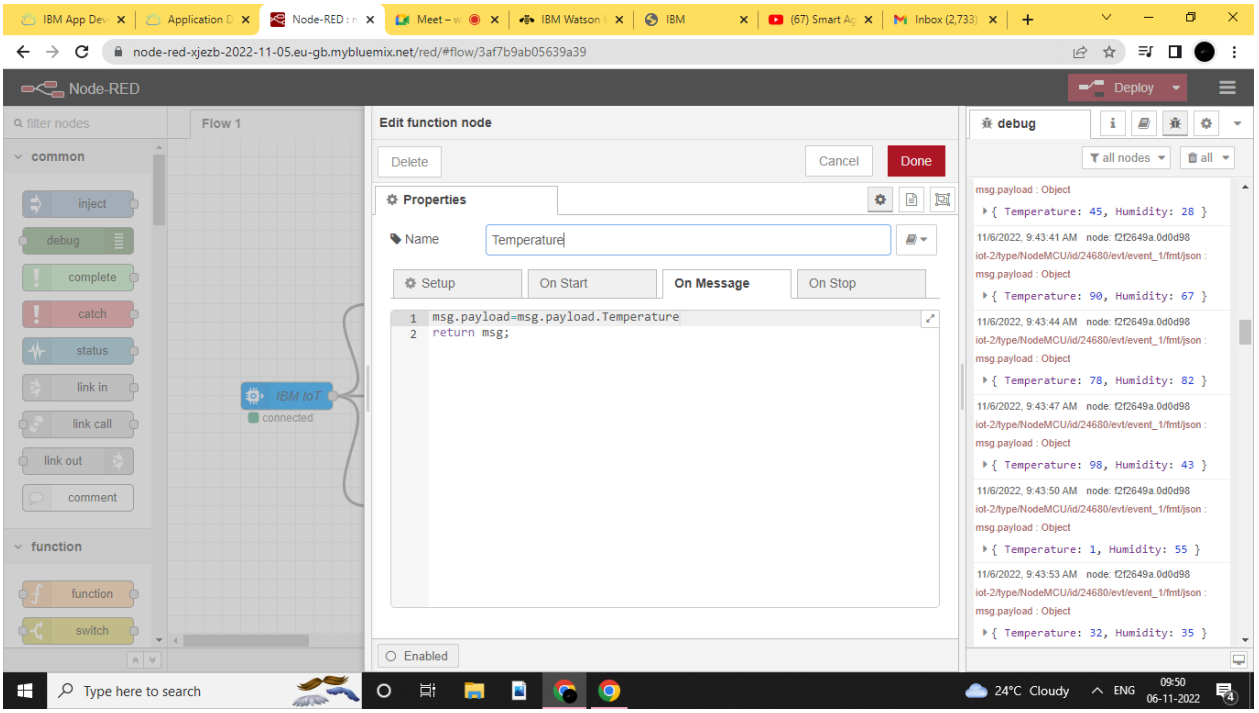
Step 8:


Node-RED
Deploy
Flow 1
common
inject
debug
complete
catch
status
link in
link call
link out
comment
function
function
switch
function
IBM IoT
connected
msg.payload
debug
all nodes
all
msg.payload : Object
{ Temperature: 45, Humidity: 28 }
{ Temperature: 90, Humidity: 67 }
{ Temperature: 78, Humidity: 82 }
{ Temperature: 98, Humidity: 43 }
{ Temperature: 1, Humidity: 55 }
{ Temperature: 32, Humidity: 35 }
Type here to search
24°C Cloudy
ENG
09:47
06-11-2022

Step 9:


Node-RED
Deploy
Flow 1
Edit function node
Delete
Cancel
Done
Properties
Name
Humidity
Setup
On Start
On Message
On Stop
1 msg.payload=msg.payload.Humidity
2 return msg;
Enabled
common
inject
debug
complete
catch
status
link in
link call
link out
comment
function
function
switch
IBM IoT
connected
debug
{ Temperature: 23, Humidity: 47 }
{ Temperature: 73, Humidity: 1 }
{ Temperature: 47, Humidity: 84 }
{ Temperature: 15, Humidity: 90 }
{ Temperature: 85, Humidity: 18 }
Type here to search
24°C Cloudy
ENG
09:52
06-11-2022

Step 10:



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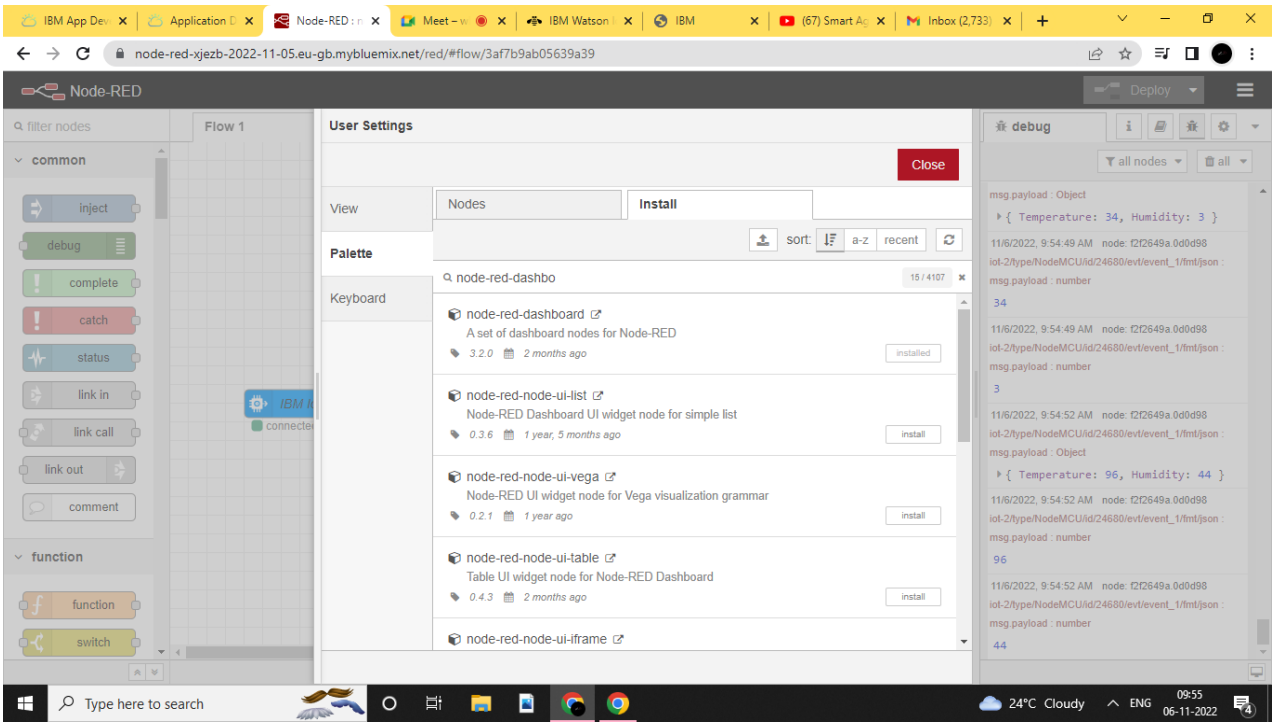

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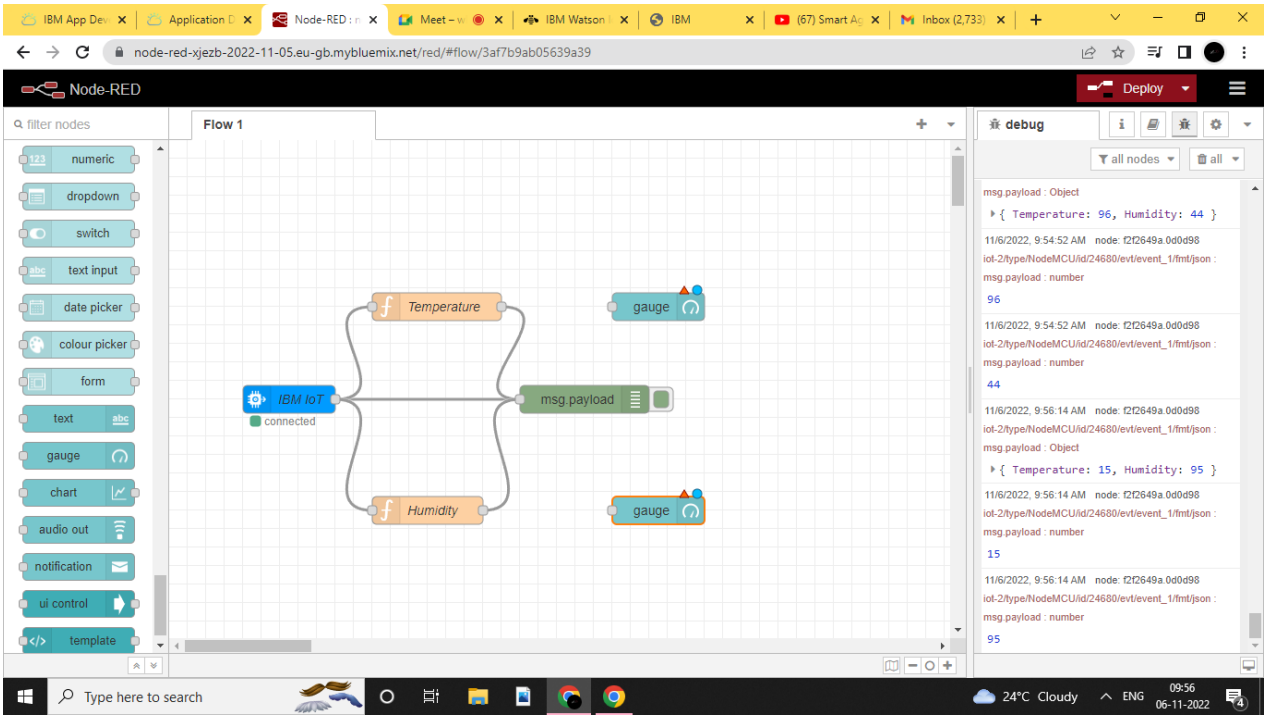

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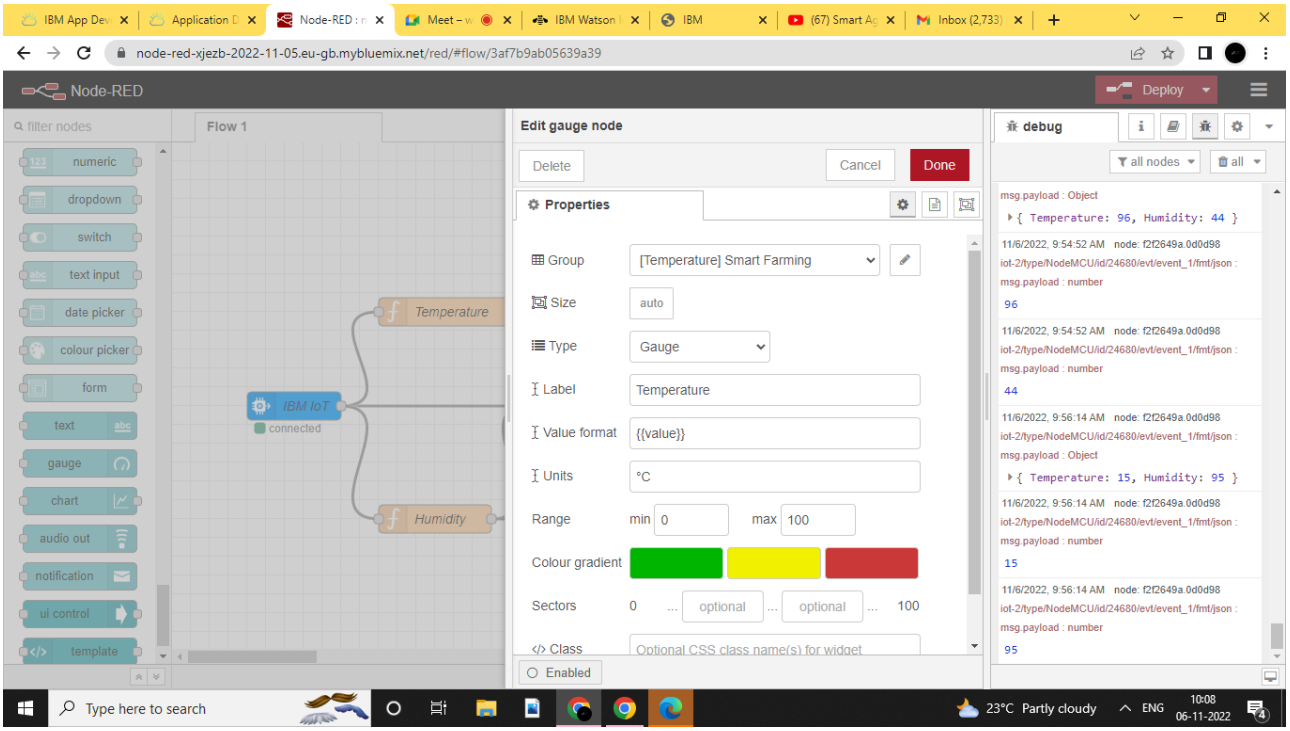
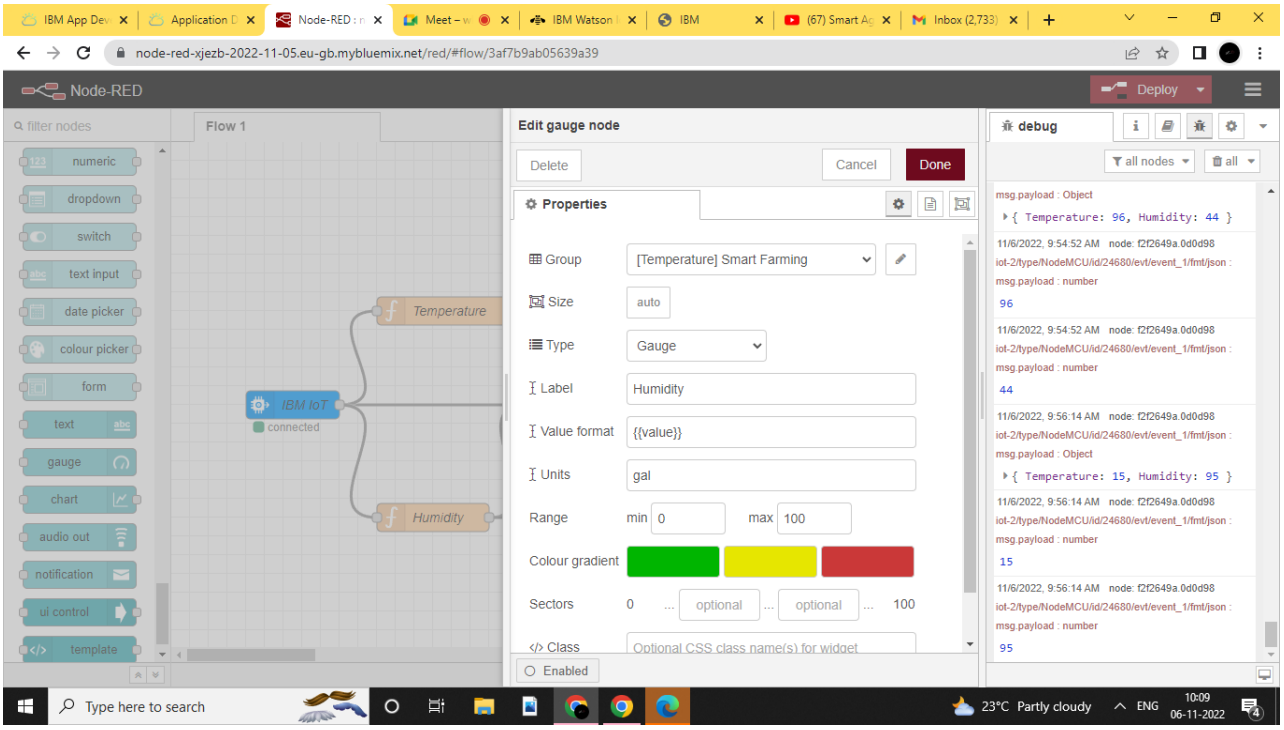
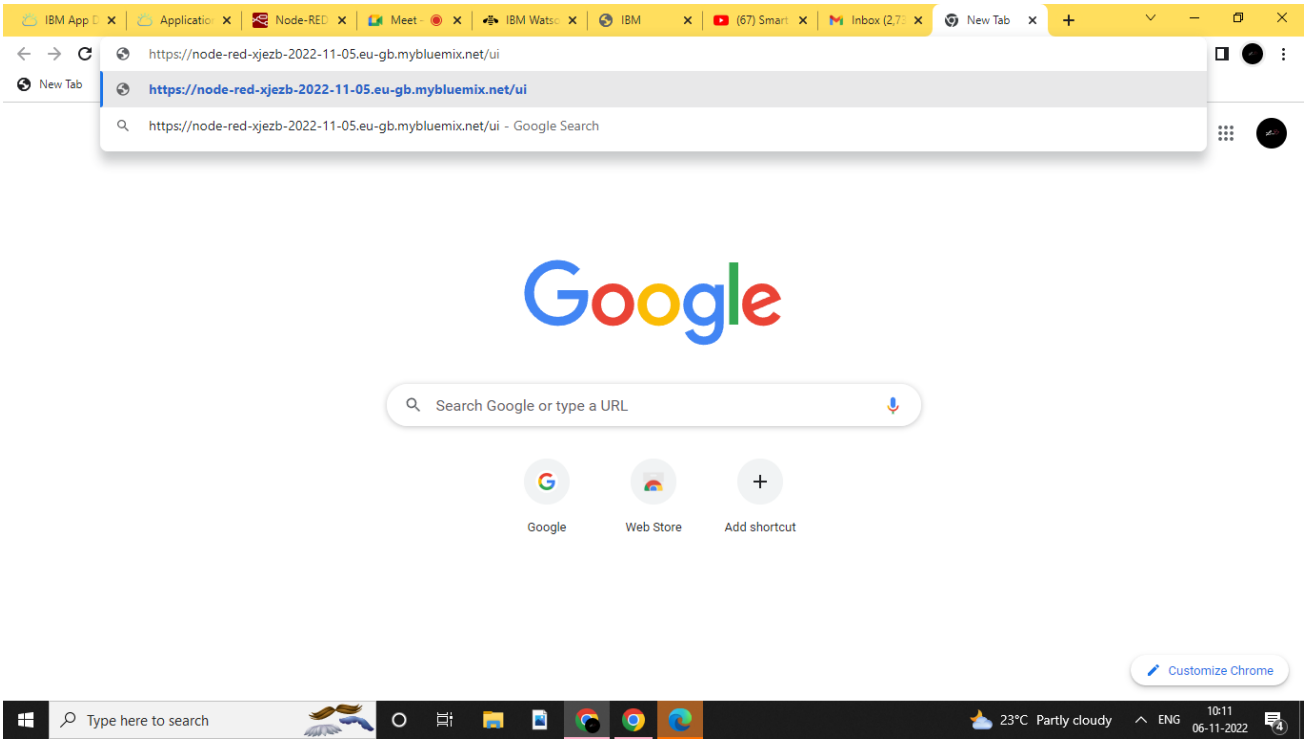


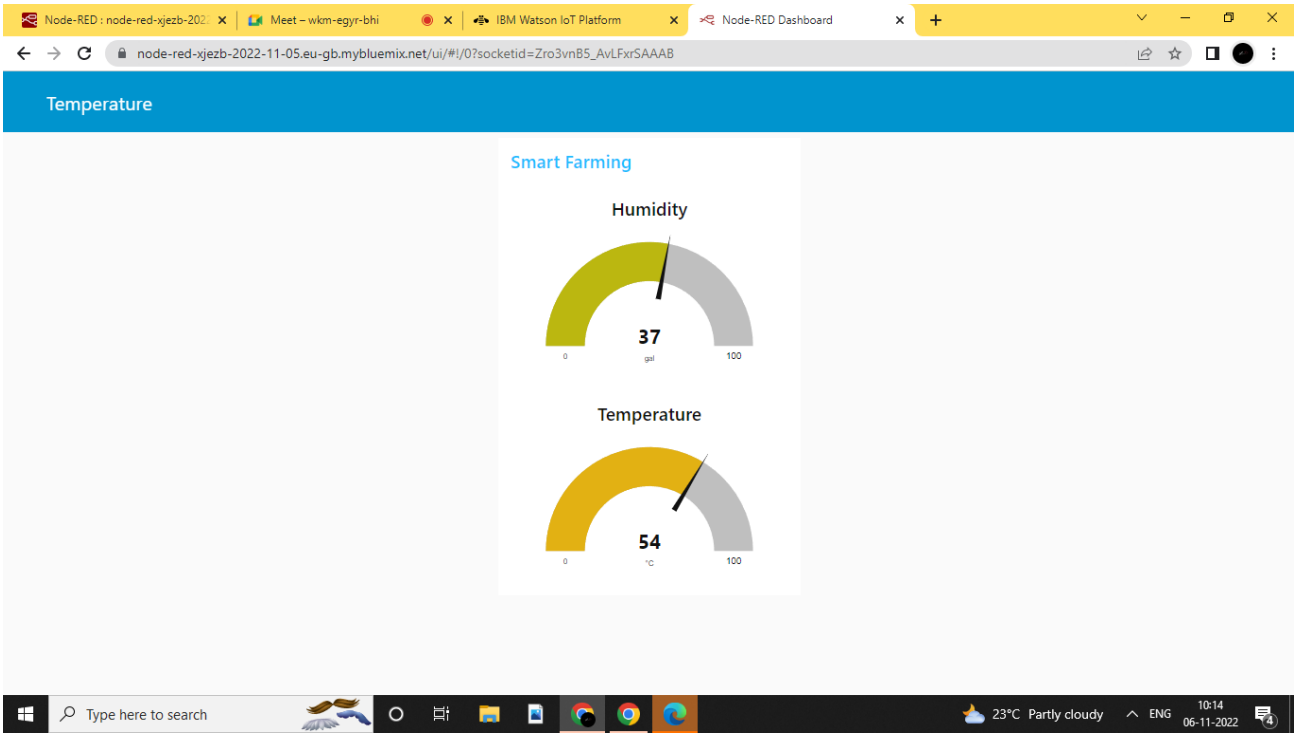
Step 14:



Step 15:



Step 16:


Node-RED : node-red-xjezb-202
Meet – wkm-egyr-bhi
IBM Watson IoT Platform
Node-RED Dashboard
node-red-xjezb-2022-11-05.eu-gb.mybluemix.net/ui/#!/0?socketid=Zro3vnB5_AvLFxrSAAAB
Temperature
Smart Farming
Humidity
37
0
gal
100
Temperature
54
0
°C
100
Type here to search
23°C Partly cloudy
ENG
10:14
06-11-2022