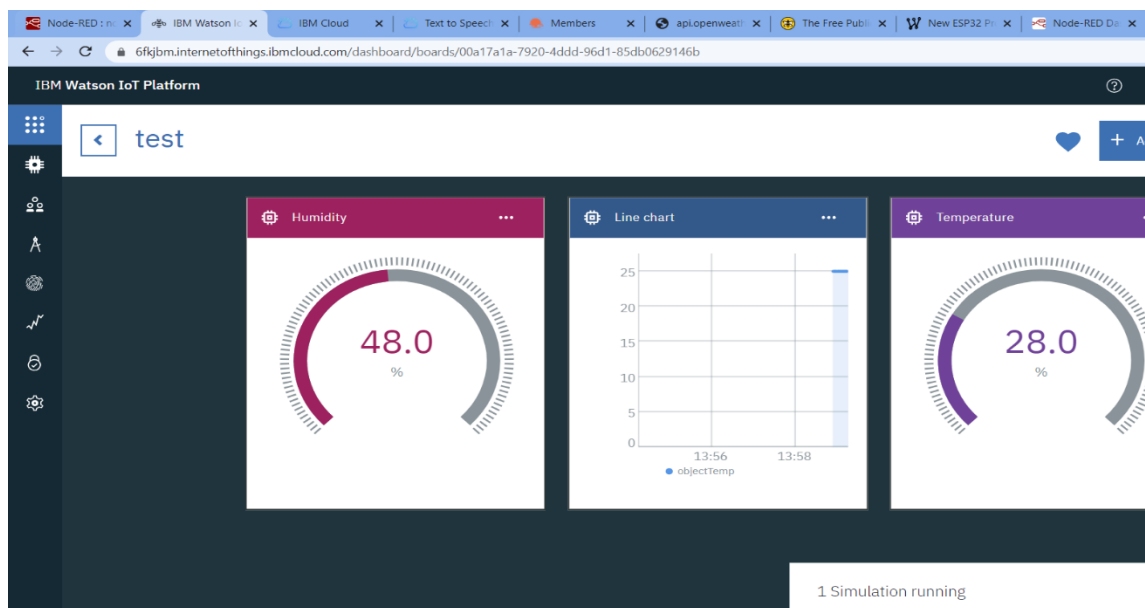


CREATE AND CONFIGURE IBM CLOUD SERVICE

To deploy the IOT platform we need the following constraints to implement the web-Based services to the project

CREATE IBM WASTON IOT PLATFORM AND DEVICE

It is the most curcial part of the platform where we deploy a device in IOT WASTON which is a service provider render by IBM cloud and it is more important that we need to take a note on device credential during the creation device in IOT WASTON platform with the help of these credential we can able to connect our services to the desired platform



CARD CREATION

The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. The left sidebar contains various icons for navigation. The main content area displays a table of devices. The selected device, 'qwerty123', is shown in detail. The 'Device Information' tab is active, showing the following details:

Property	Value
Device ID	qwerty123
Device Type	iotdevice1
Date Added	Nov 7, 2022 4:39 PM
Added By	714019205002@smartinternz.com
Connection Status	Disconnected Last Connected: Nov 8, 2022 1:02 PM Client Address: 49.37.195.171 SecureToken Duration: 12 minutes Data Transferred: 35.3 KB

At the bottom right, it indicates '1 Simulation running'.

The screenshot shows the IBM Watson IoT Platform dashboard with the 'Recent Events' tab selected. The main content area displays a table of recent events. The events listed show a live stream of data coming and going from the device. The table has the following columns: Event, Value, Format, and Last Received.

Event	Value	Format	Last Received
event_1	{"d":{"name":"qwerty123","temperature":36,"hu..."	json	a few seconds ago
event_1	{"d":{"name":"qwerty123","temperature":15,"hu..."	json	a few seconds ago
event_1	{"d":{"name":"qwerty123","temperature":16,"hu..."	json	a few seconds ago
event_1	{"d":{"name":"qwerty123","temperature":82,"hu..."	json	a few seconds ago
event_1	{"d":{"name":"qwerty123","temperature":86,"hu..."	json	a few seconds ago

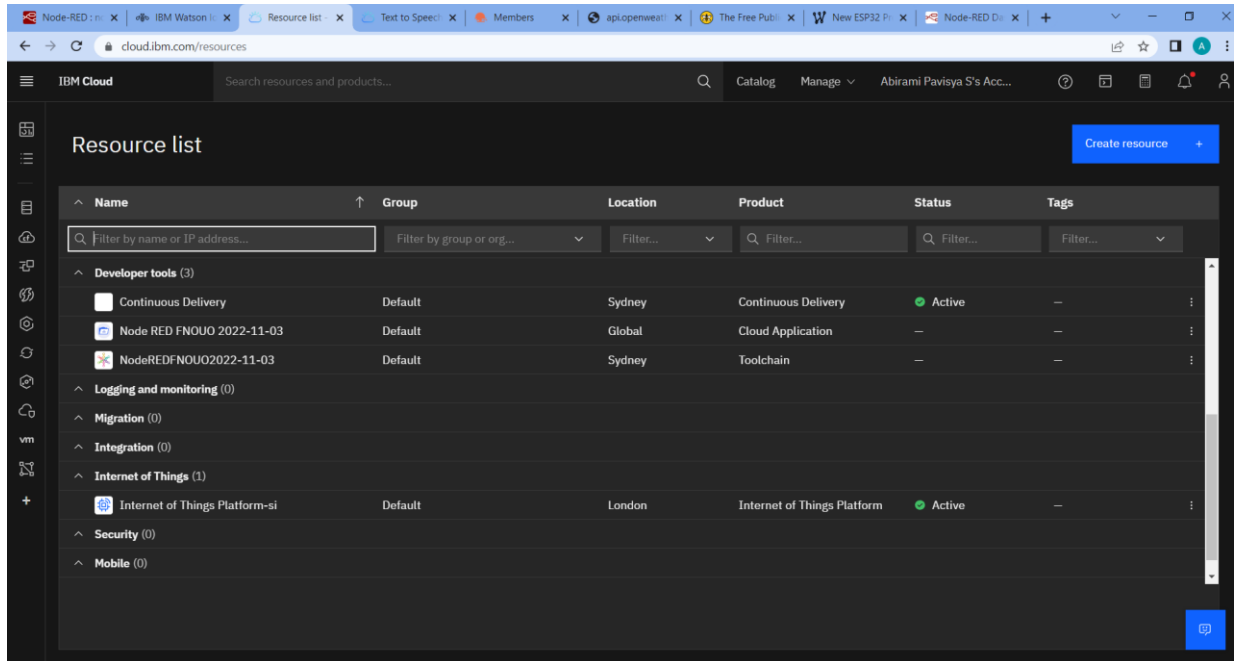
At the bottom right, it indicates '1 Simulation running'.

DEVICE SIMULATION

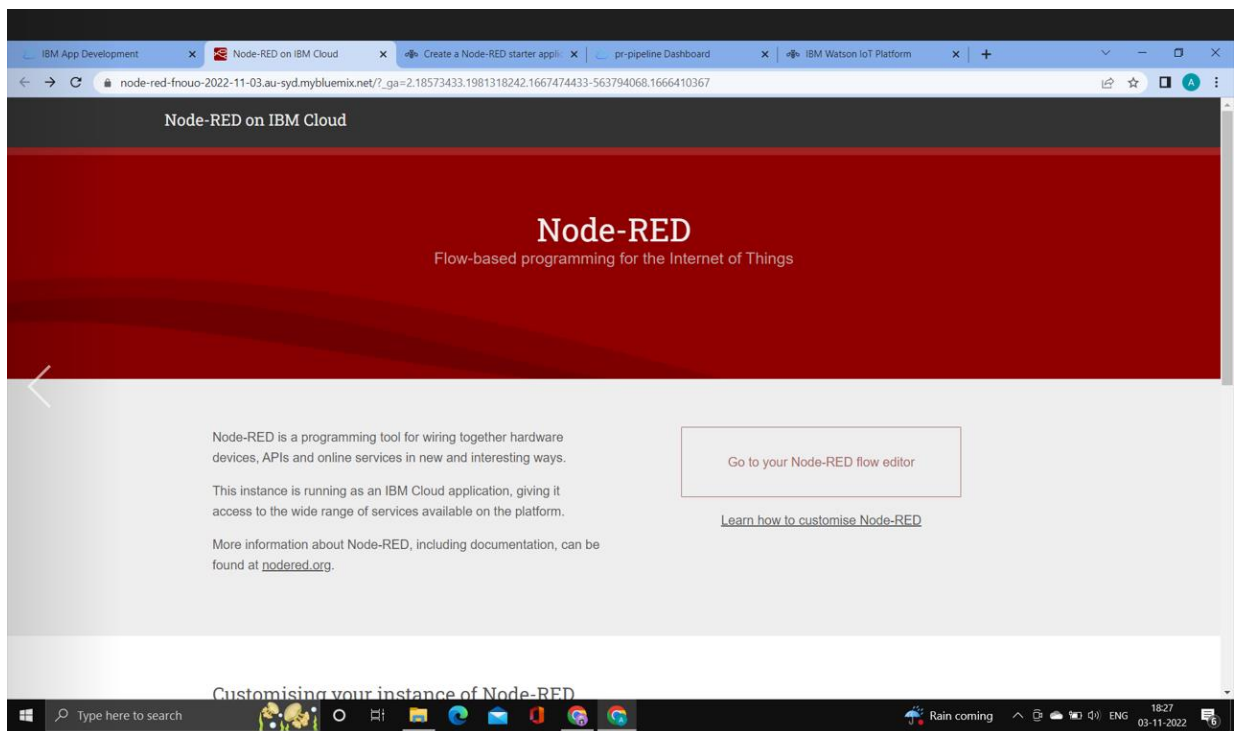
CREATE NOD-RED SERVICES

To implements the IBM WASTON PLATFORM device values, we need to deploy NOD-RED Services which rendered by IBM Cloud and with the help of it we deploy the IOT as GUI friendly website and as a simulator and it is also connected to python interpreter. And while creating the NOD-RED Services its

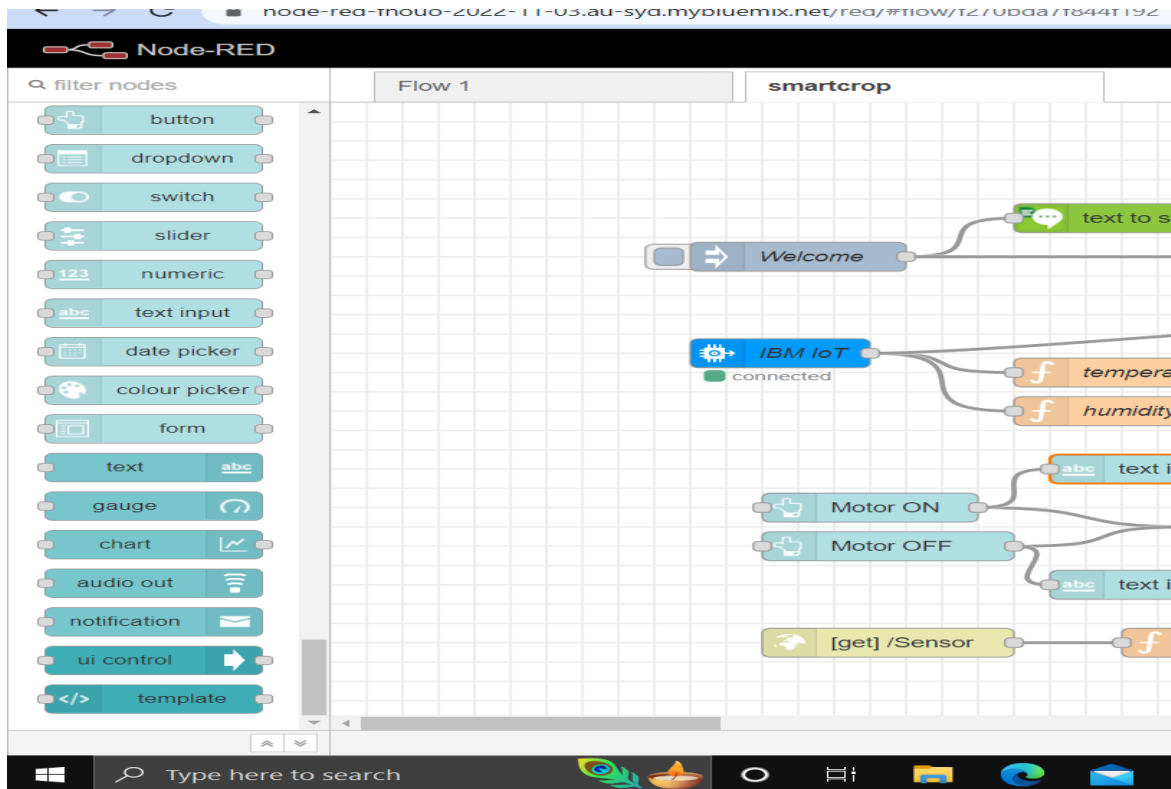
important to note URL for the NOD-RED flow editor. here we have so many nodes which makes task to be implemented easily



NODE-RED SERVICE CONNECTION ESTABLISHMENT



NODE-RED WEBSITE URL



NODE-RED FLOW EDITOR

CREATE A CLOUDANT DATABASE AND CLOUD OBJECT

In order to store the NOD-RED value or any service provider we need to have a Database here the cloudant database is created inorder to store the values of the sensor reading of the devices

Name	Size	# of Docs	Partitioned	Actions
noderedfnouo20221103	36.7 KB	4	No	
sample	0 bytes	0	Yes	
sample1	0.9 MB	4076	No	

Node-RED x IBM Watson x Text to Speech x Members x xplopenw x The Free P x W New ESP3 x Node-RED x Node-RED x Cloudant x

0967e772-6c20-448c-89f4-1d4d9f540183-bluemix.cloudant.com/dashboard.html#database/sample1/_all_docs

sample1

Document ID Options {} JSON

All Documents +

Query

Permissions

Changes

Design Documents +

Log Out

Table Metadata {} JSON Create Document

	id	key	value
<input type="checkbox"/>	02c9db35bd912af5aeb4c9108645d540	02c9db35bd912af5aeb4c9108645d540	{ "rev": "1-6c0d8a0ab163ca3e5ea48e9480...
<input type="checkbox"/>	03fc1a9006d3f6fc8392d971209e6511	03fc1a9006d3f6fc8392d971209e6511	{ "rev": "1-b4ae960207938960e733cf1ed255...
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Showing document 1 - 20. Documents per page: 20