SPRINT 3

PROGRAMMING USING NODE RED FOR SMART FARM PROJECT

Date	11th November 2022
Team ID	PNT2022TMID12810
Project Name	SmartFarmer – IoT Enabled Farming Application
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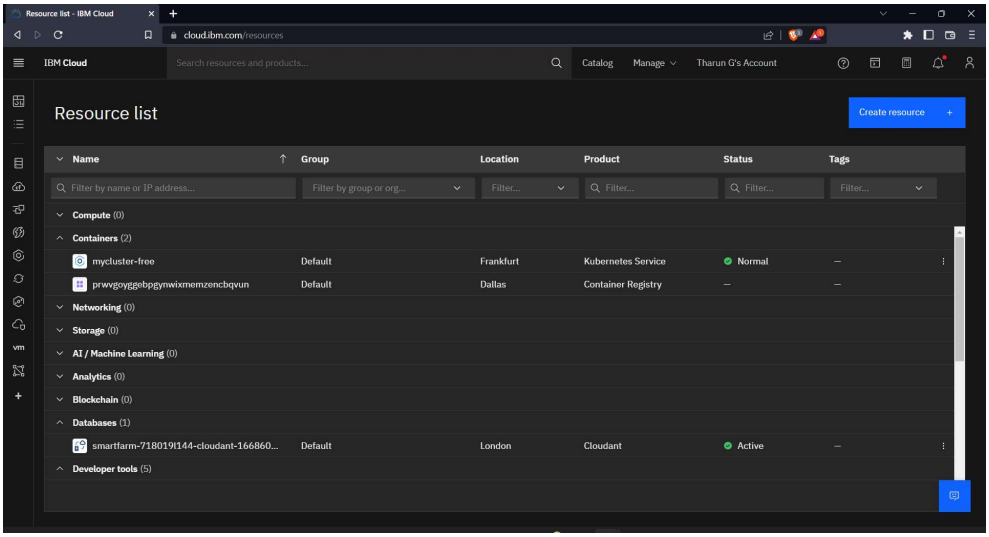
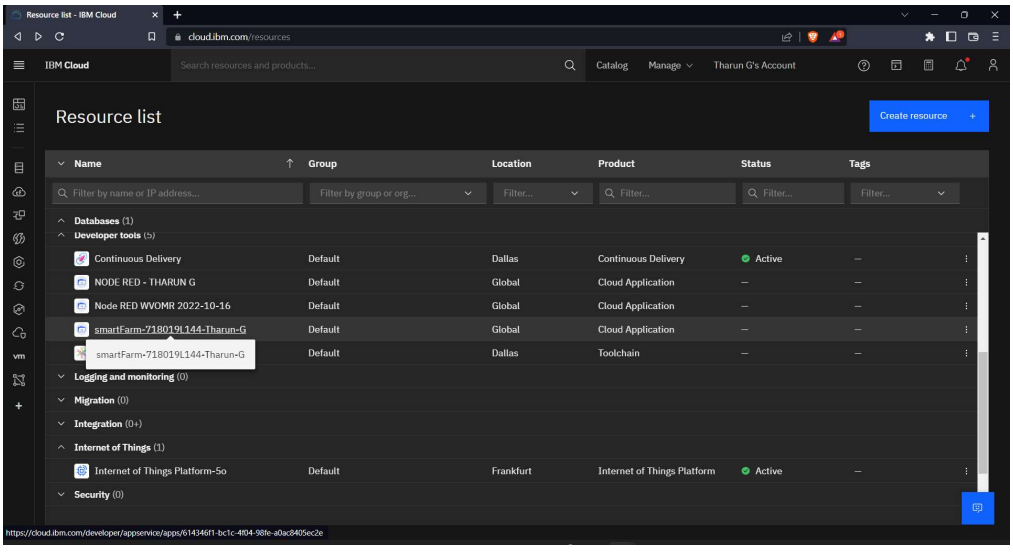
WOKWI PROJECT LINK: https://wokwi.com/projects/348487506111496786

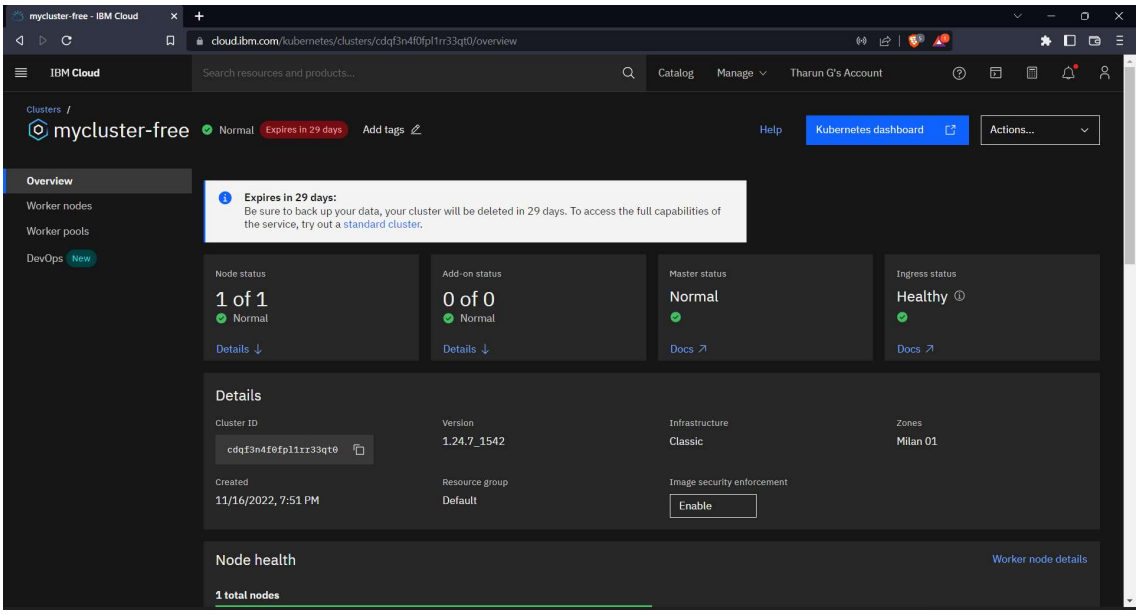
In this sprint, the circuit simulated in wokwi platform sends data to IBM cloud and data from IBM cloud is fetched and presented using NODE RED programming.

The following screenshots show the newly created NODE RED service in IBM cloud using my IBM cloud account.

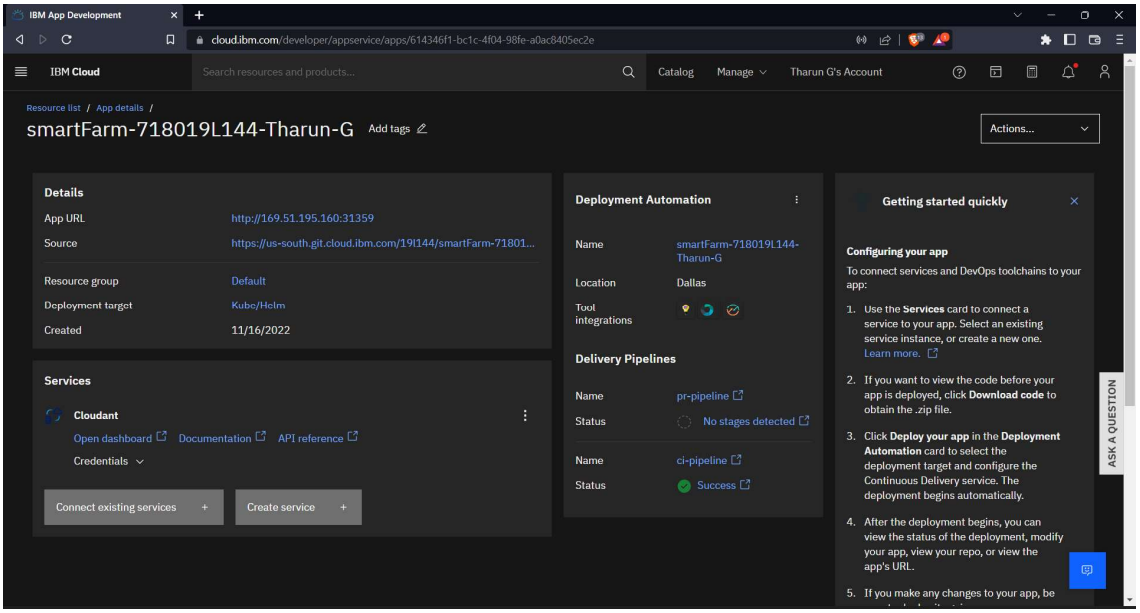




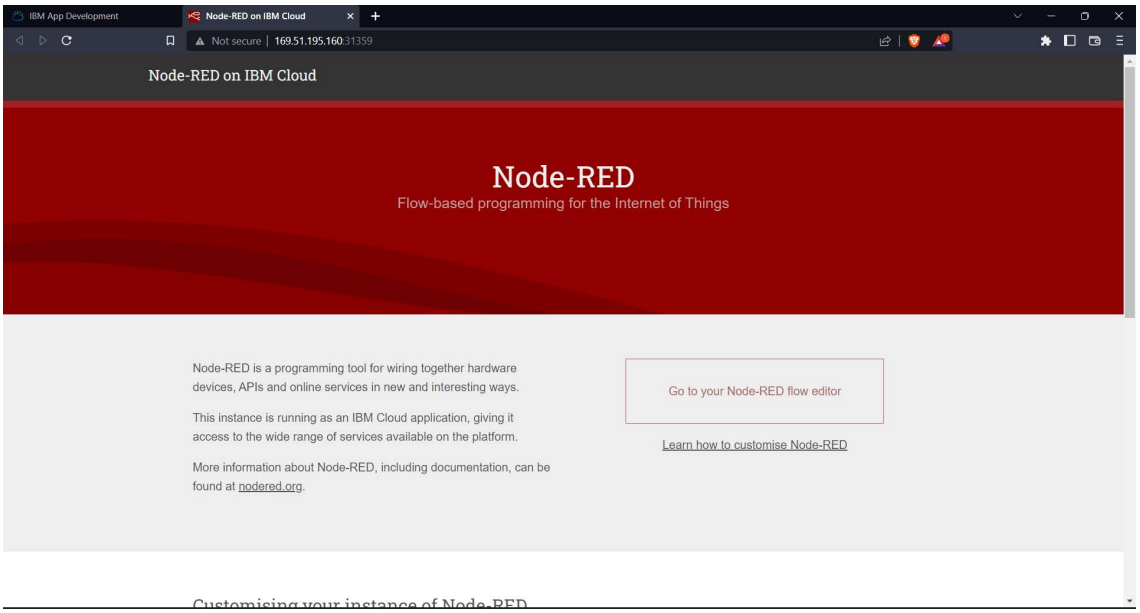
The below screenshot shows the cluster created from Kubernetes for our newly created NODERED service.

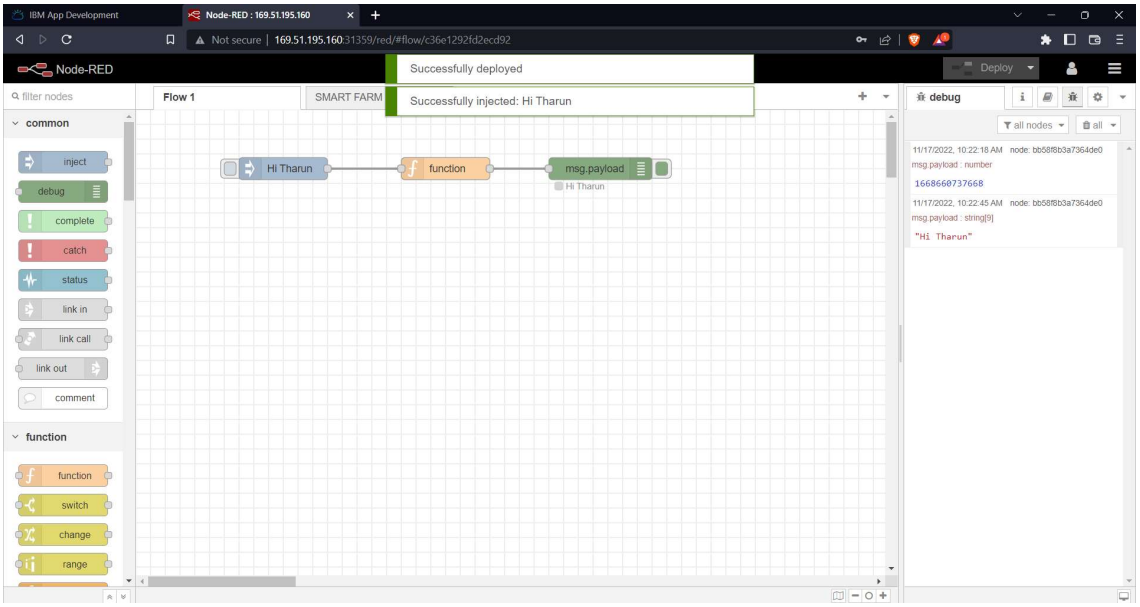


By clicking on node red service in resources list, we are redirected to below web page which consists of all required details about service.

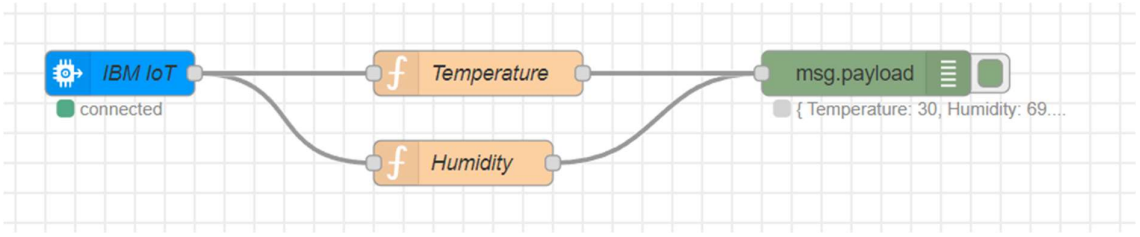


On clicking the App URL, we will be redirected to the node red web page from where the programming starts.



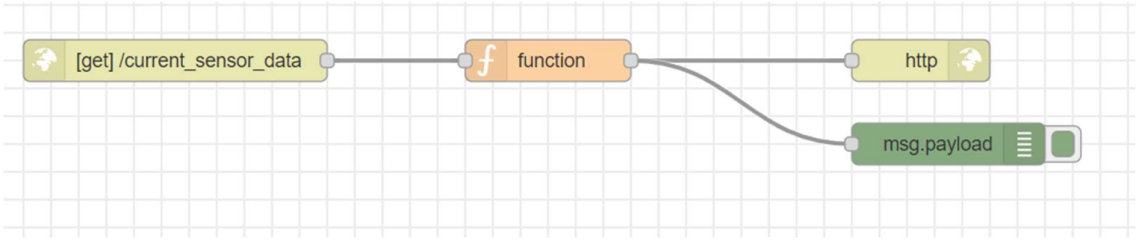


The following screenshots show the retrieval of data (temperature and humidity) from IBM cloud

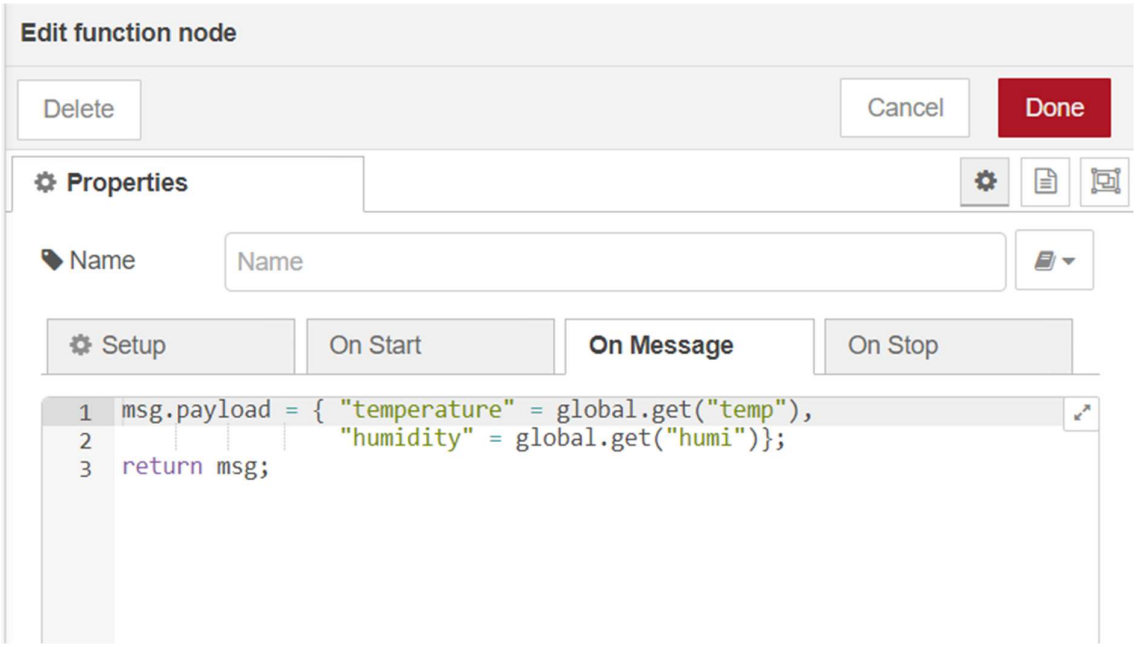


(output in debug window)

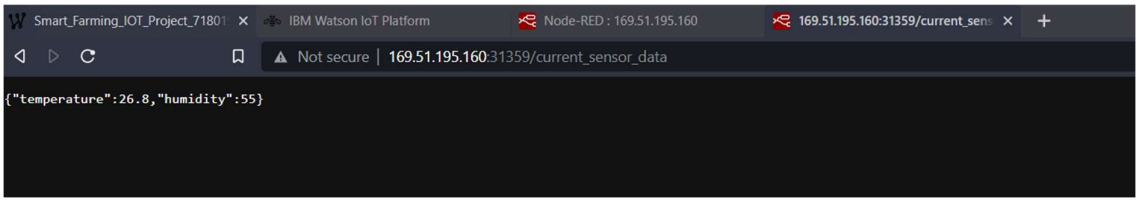
CREATING AN URL TO GET TEMPERATURE AND HUMIDITY DATA FROM IBM CLOUD IN JSON FORMAT:



(Function written for parsing and structuring data)



(Output in new window of browser)



When I entered the url in browser, it fetches the data (temperature and humidity) in JSON format.