Smart Farmer - IoT Enabled Smart Farming Application

SPRINT - 2

TEAM ID	PNT2022TMID04018
DATE	14TH NOVEMBER 2022

IBM Watson IoT platform, Workflows for IoT scenarios using Node-red:

Building Project:

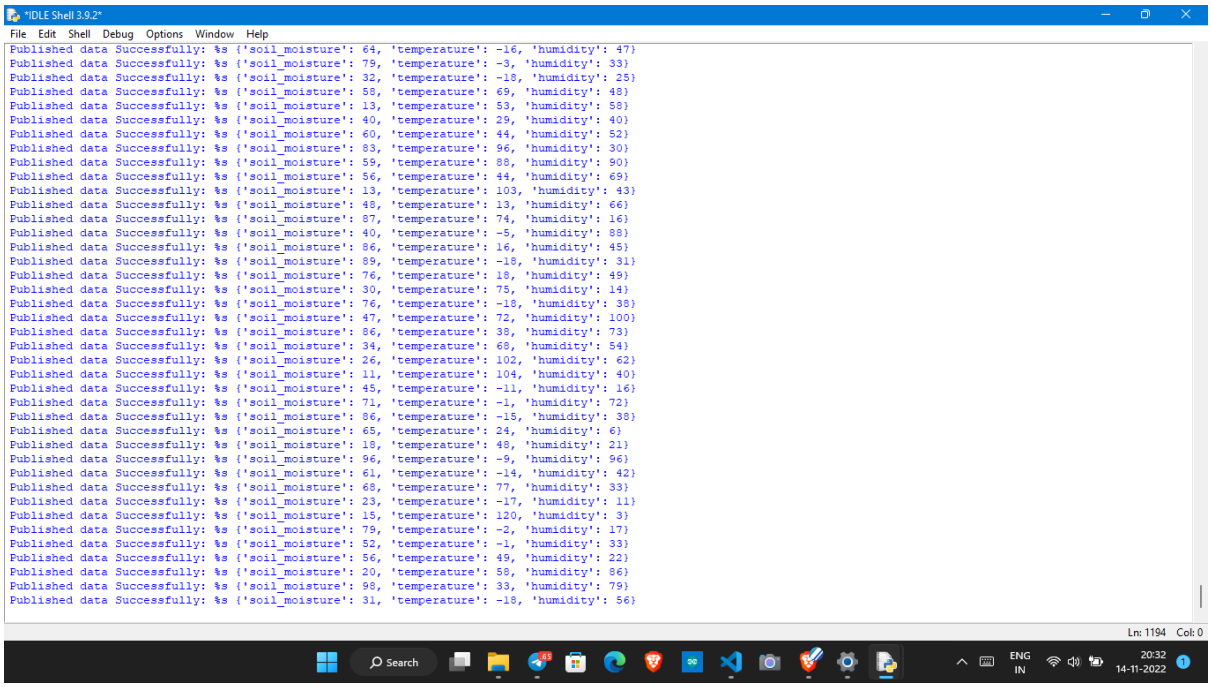
Connecting IOT Simulator to IBM Watson IOTPlatform

Give the credentials of your device in IBM Watson

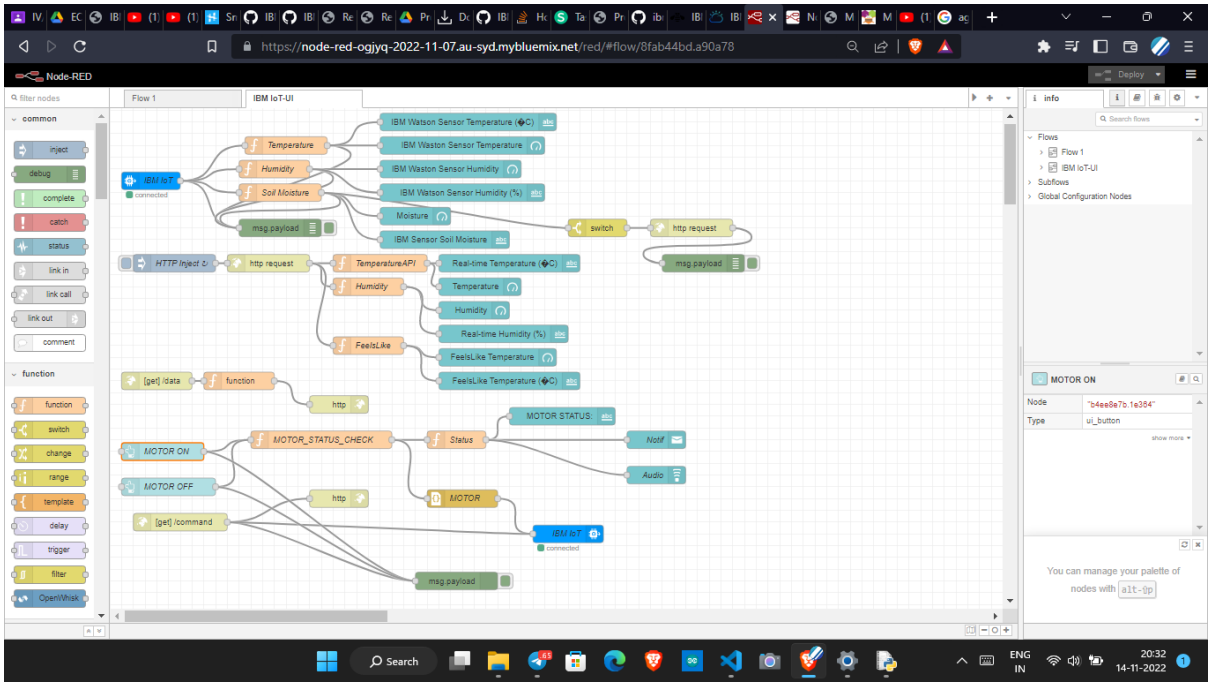
"orgId": "04gt4e",

"typeId": "NodeMCU",

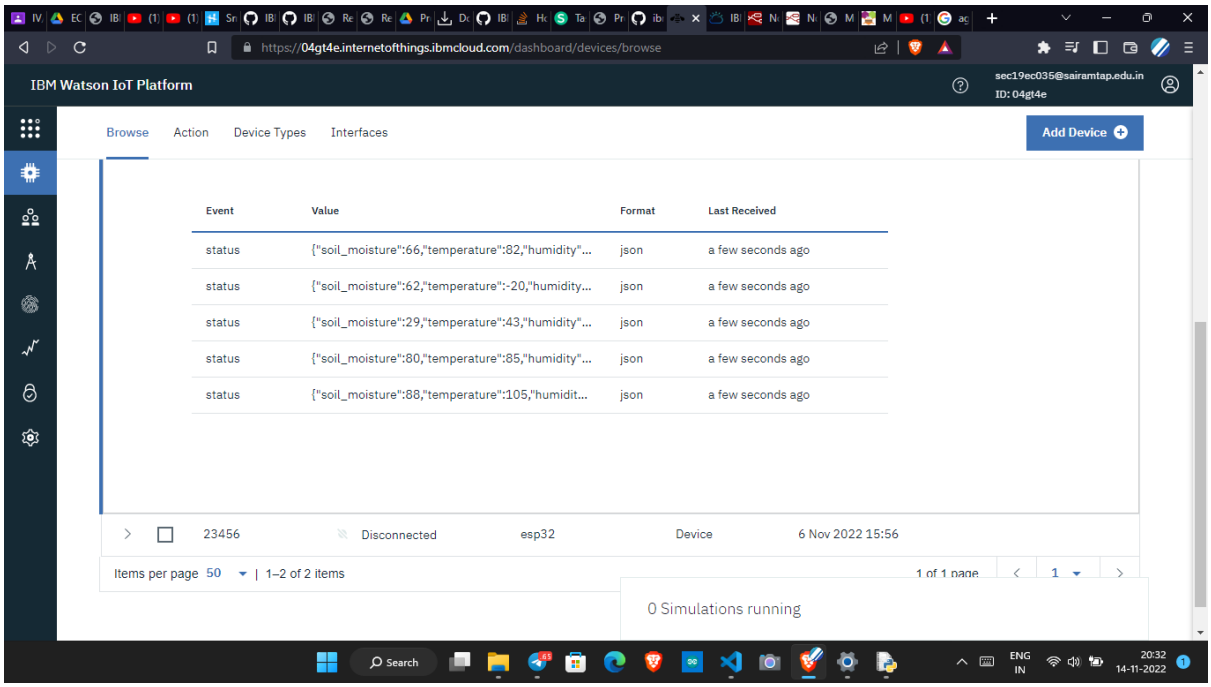
"deviceId": "12345"



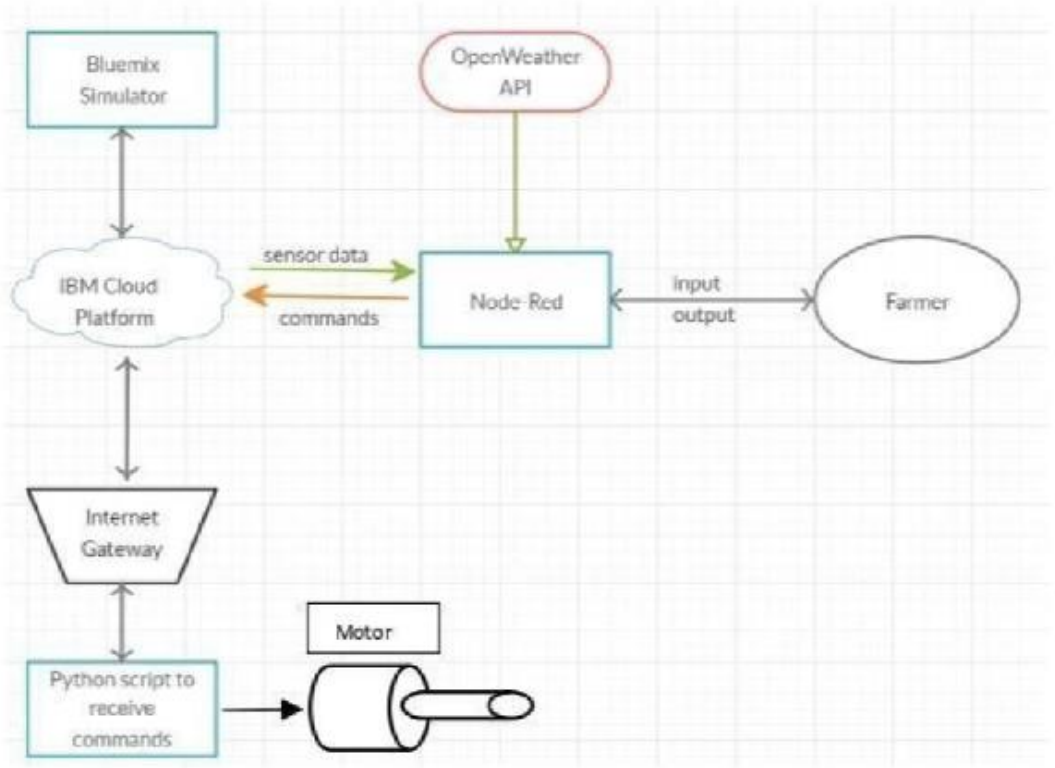
The node IBM IOT App In is added to Node-Red workflow. Then the appropriate device credentials obtained earlier are entered into the node to connect and fetch device telemetry to Node-Red



The Node-Red also receive data from the Open Weather API by HTTP GET request. An inject trigger is added to perform HTTP request for every certain interval. HTTP request node is configured with URL we saved before.



FLOW CHART:


Bluemix
Simulator
OpenWeather
API
IBM Cloud
Platform
sensor data
commands
Node-Red
input
output
Farmer
Internet
Gateway
Motor
Python script to
receive
commands