PROJECT DEVELOPMENT PHASE

*SPRINT DELIVERY – 2*

|  |  |
| --- | --- |
| Data | 10 November 2022 |
| Team ID | PNT2022TMID27179 |
| Project Name | Smart farmer- IoT based smart farming application |

**Building Project**

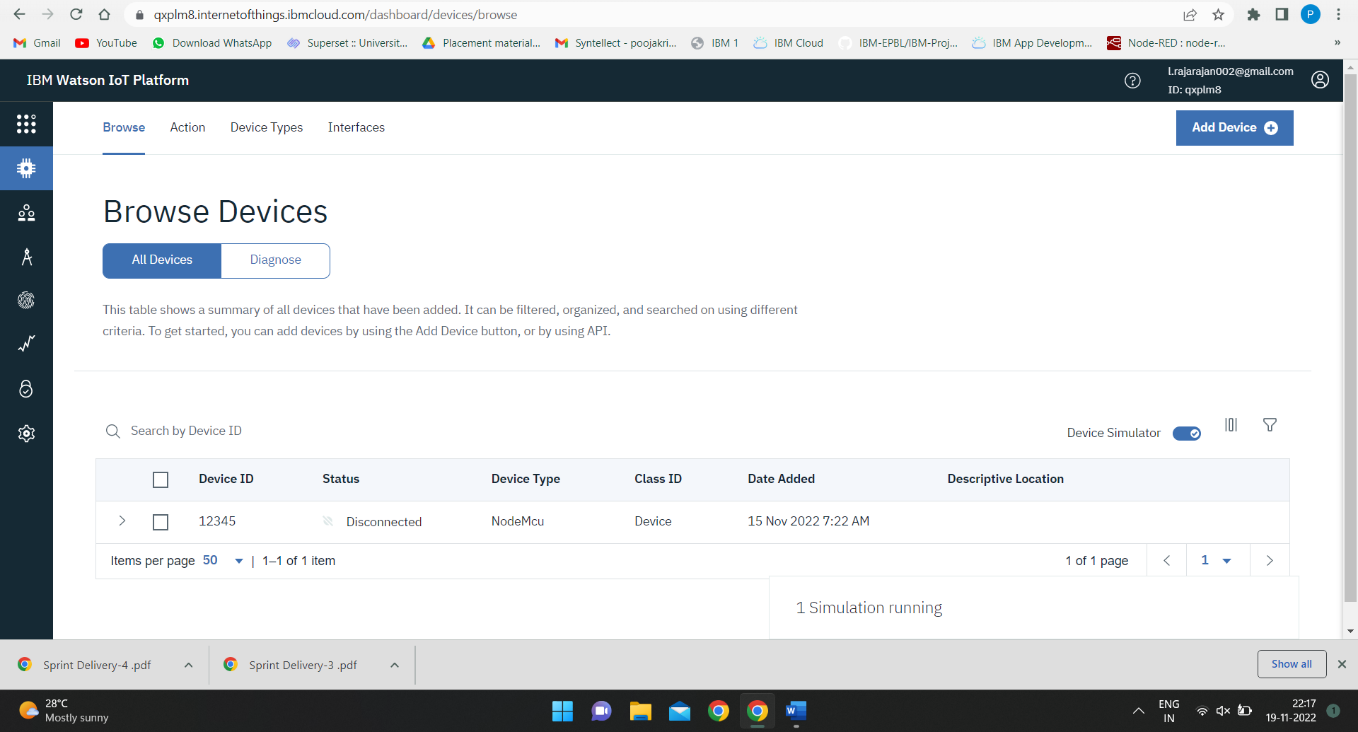
*Connecting IoT Simulator to IBM Watson IoT Platform*

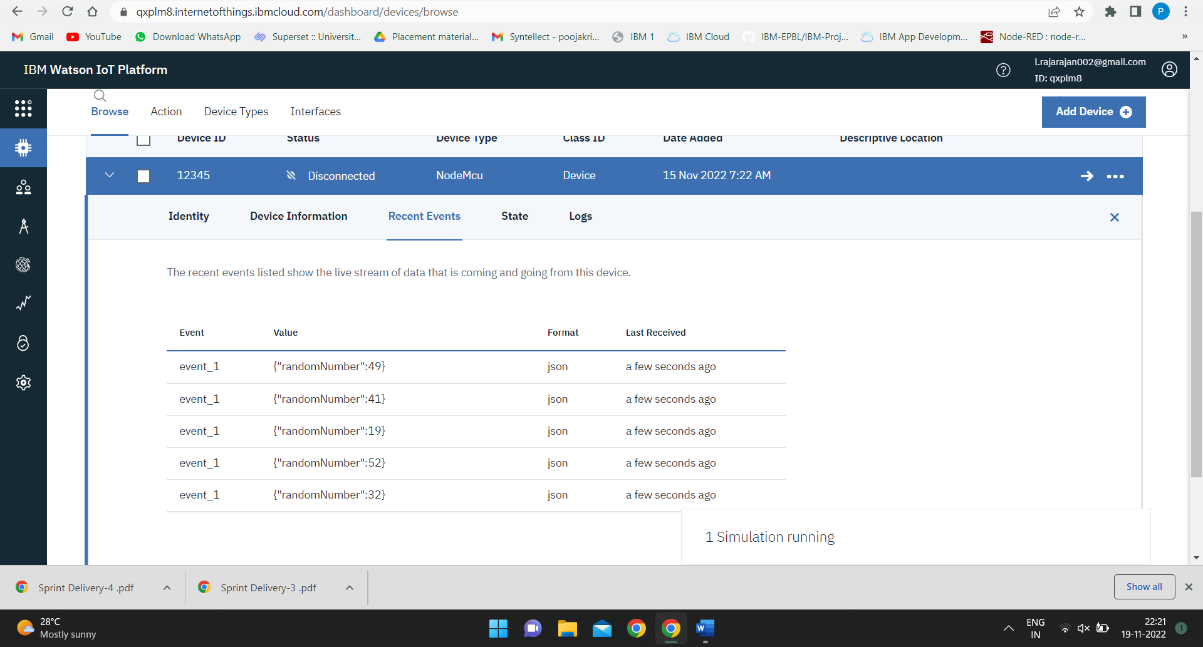
*Open link provided*

*Give the credentials of your device in IBM Watson IoT Platform.*

*Click on connect My credentials given to simulator are:*

* + - * Api-key: a-qxplm8-odrgyd6oxm
      * Device type: NodeMcu
      * Device ID : 12345
      * Token: )22UmCJOV1XDNEs) BR

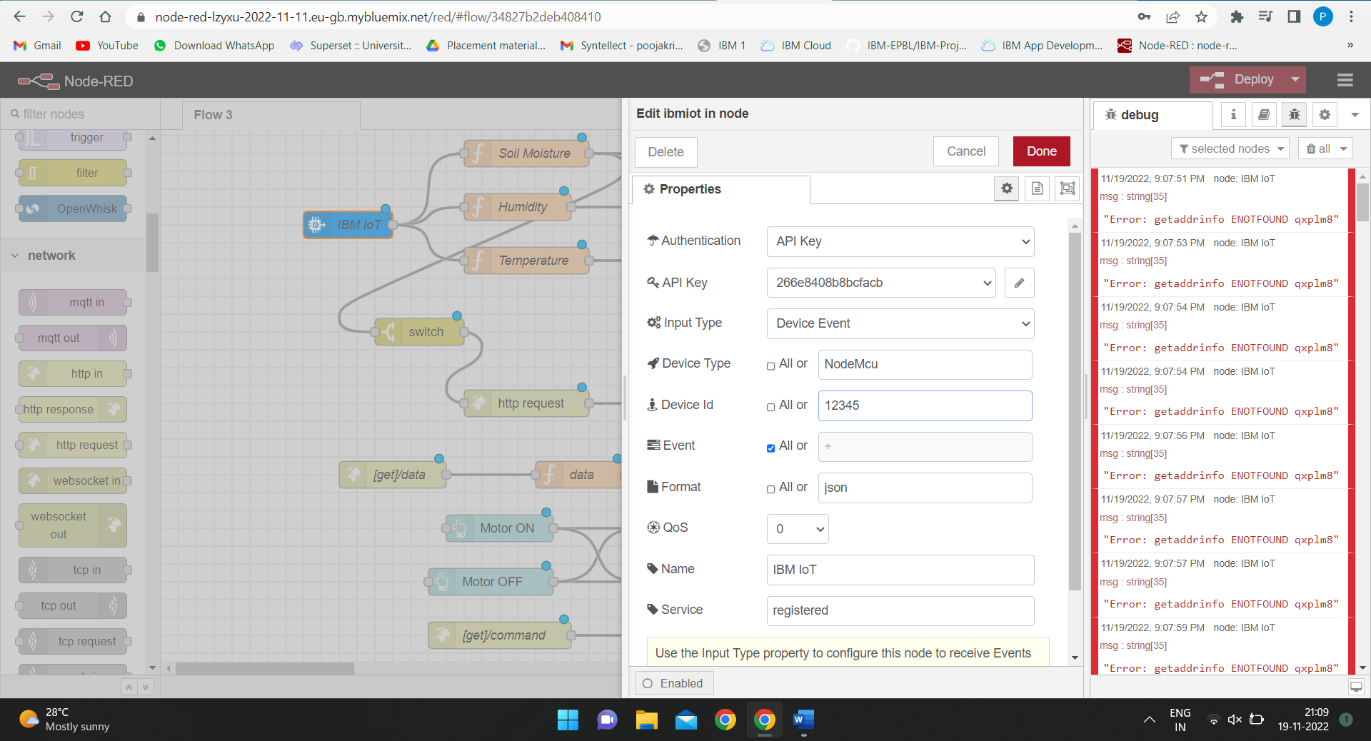




**Configuration of Node-Red to collect IBM cloud data:**

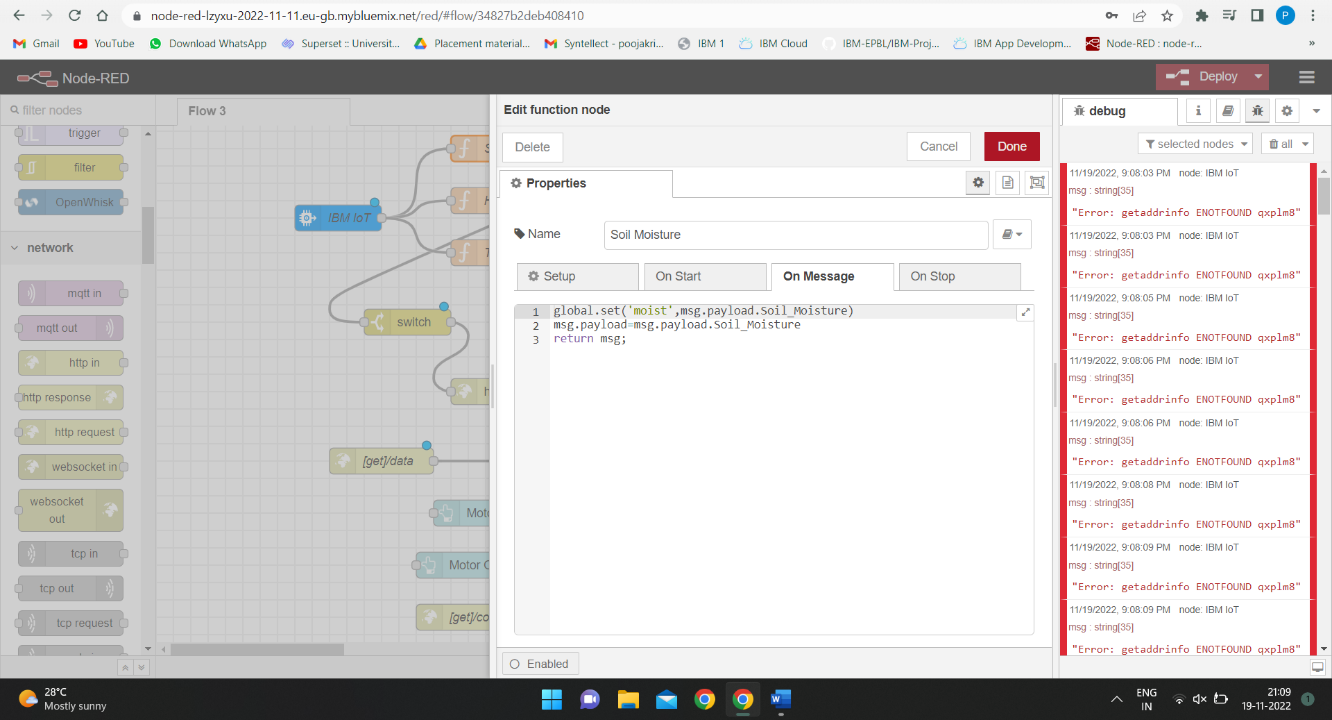
*The node IBM IoT App In is added to Node-Red workflow. Then the appropriate device credentials obtained earlier*

*are entered into the node to connect and fetch device telemetry to Node-Red.*



* + - *Once it is connected Node-Red receives data from the device*
    - *Display the data using debug node for verification*
    - *Connect function node and write the Java script code to get each reading separately.*
    - *The Java script code for the function node is: msg. payload=msg. payload.d. temperature return msg;*
    - *Finally connect Gauge nodes from dashboard to see the data in UI*

*Configuration of Node-Red to collect data from Open Weather*



*In order to parse the JSON string, we use Java script functions and get each parameter*

*var temperature = msg. payload. main. temp;*

*temperature = temperature-273.15;*

*return {payload: temperature. to Fixed (2)};*