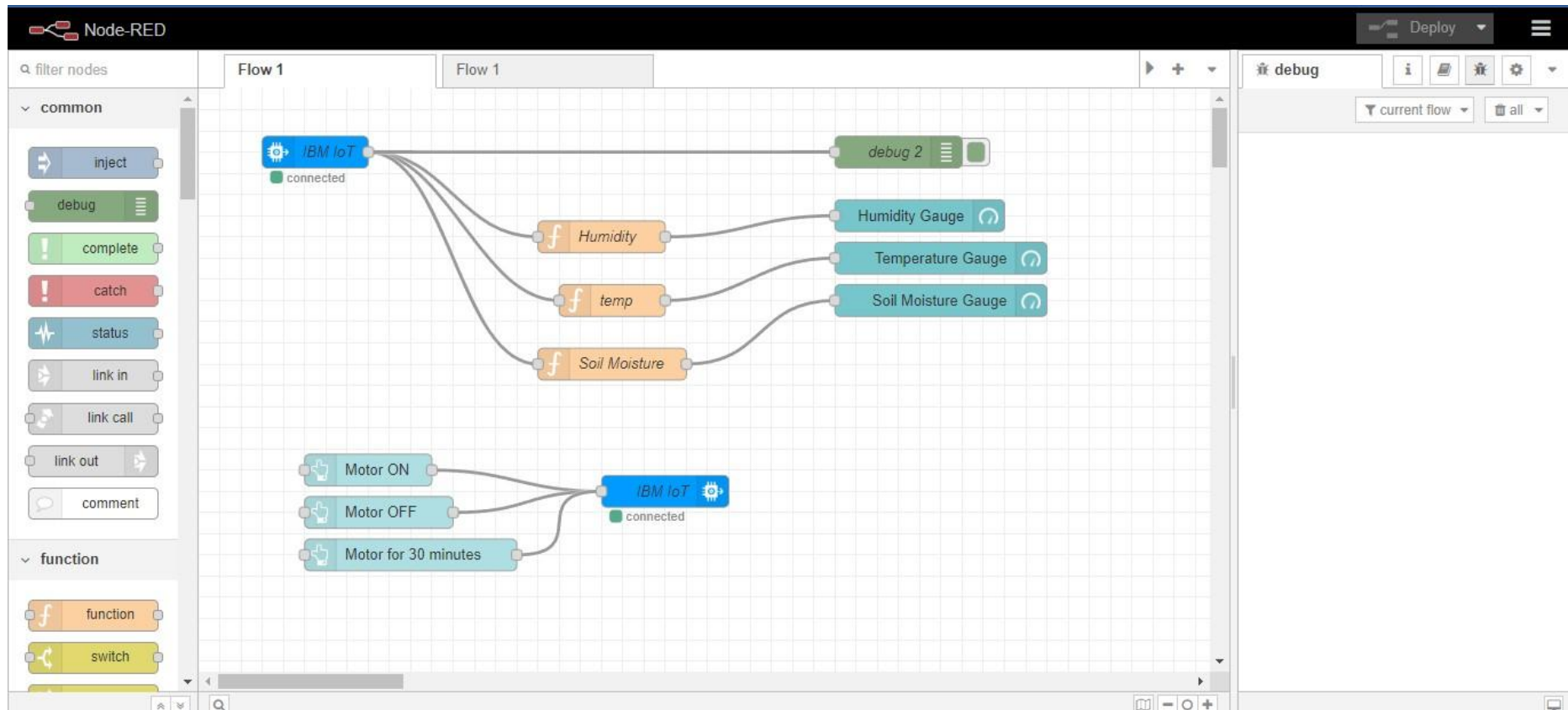


## **Create The IBM Watson IoT Platform And A Device**

<b>Project Title</b>	SmartFarmer – IoT Enabled Smart Farming Application
<b>Team ID</b>	PNT2022TMID22163
<b>Content</b>	Node-RED

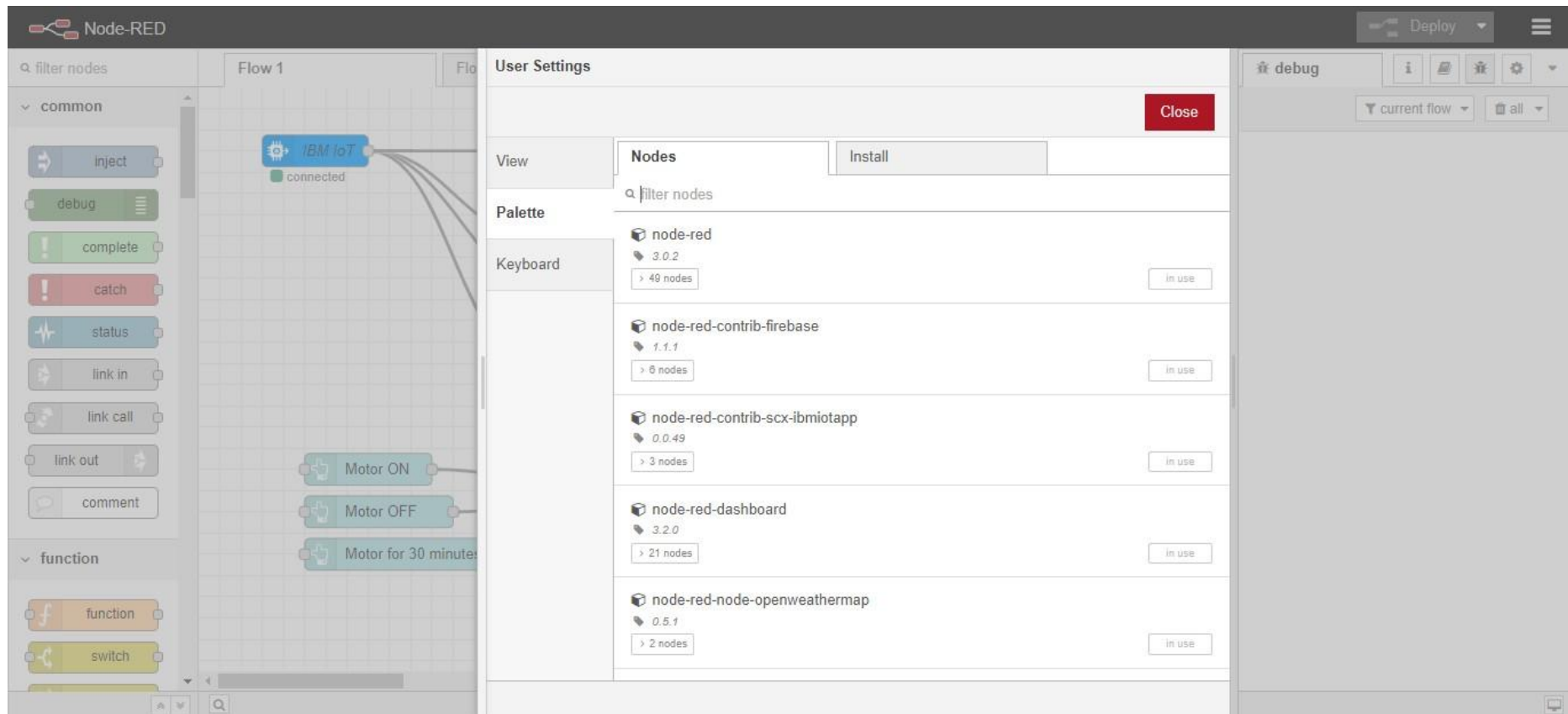
## STEP 1:

Login into IBM Cloud and Open your node-red app.



## STEP 2:

For IBM Cloud connection you need certain nodes which can be installed by going to Manage Palette and then install required nodes.



## STEP 3:

Now you can connect your cloud by entering API Credentials and enter device details.

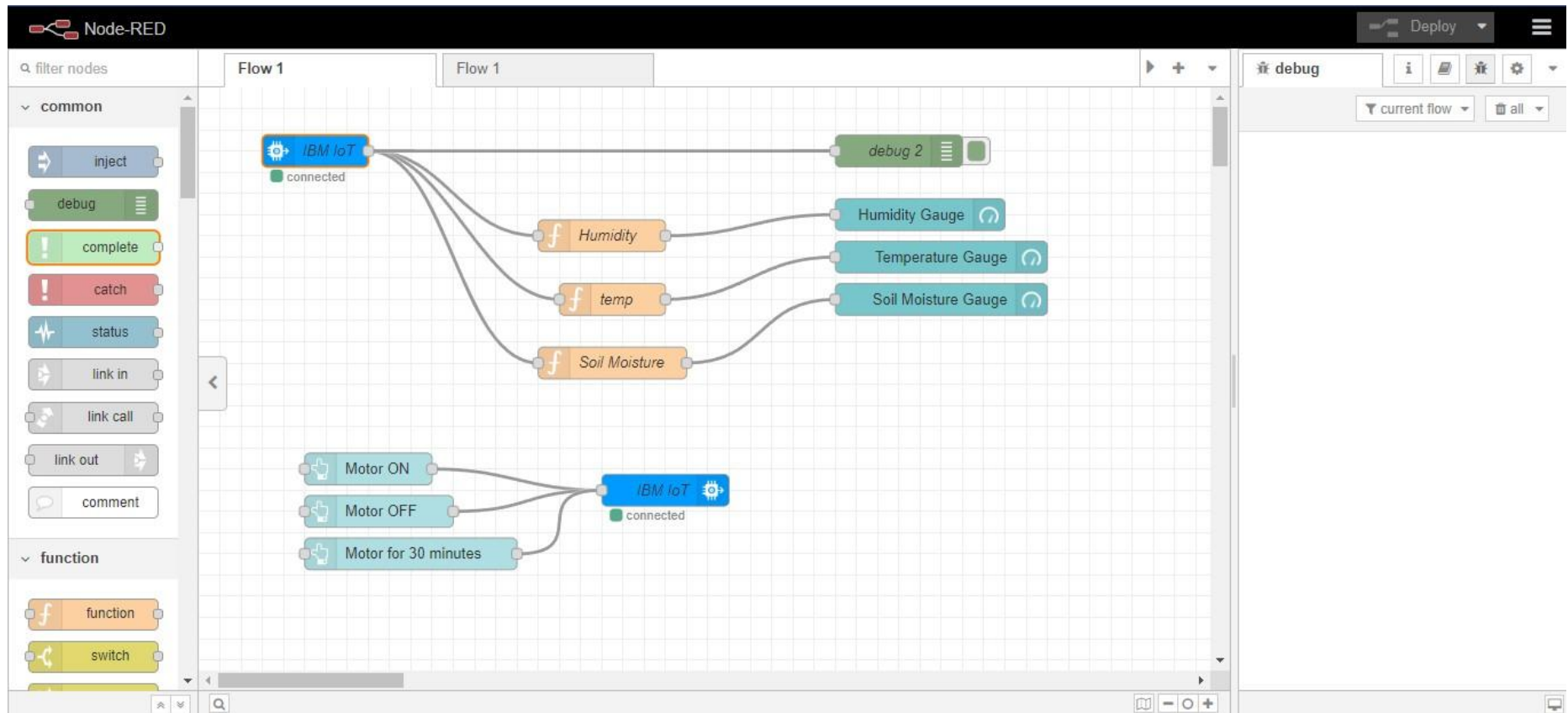
The screenshot displays the Node-RED web interface. On the left, the 'common' nodes palette is visible, including 'inject', 'debug', 'complete', 'catch', 'status', 'link in', 'link call', 'link out', and 'comment'. The 'function' nodes palette is also partially visible. The main workspace shows a flow named 'Flow 1' with an 'IBM IoT' node (labeled 'connected') connected to three function nodes: 'Humidity', 'temp', and 'Soil Moisture'. Below these, there are three more function nodes: 'Motor ON', 'Motor OFF', and 'Motor for 30 minutes', which are connected to another 'IBM IoT' node (labeled 'connected'). On the right, the 'Edit ibmiot in node' configuration panel is open. It contains the following settings:

- Authentication:** API Key
- API Key:** Test
- Input Type:** Device Event
- Device Type:** ☐ All or Testing
- Device Id:** ☒ All or device id e.g. ab12cd231a21
- Event:** ☒ All or +
- Format:** ☐ All or json
- QoS:** 0
- Name:** IBM IoT
- Service:** registered

At the bottom of the configuration panel, there is a radio button for 'Enabled' which is currently selected. The rightmost sidebar shows the 'debug' console with a 'current flow' filter and a 'trash all' button.

## STEP 4:

Create your flow by drag and drop the elements.



## STEP 5:

You can see web ui by adding ui after your url.

