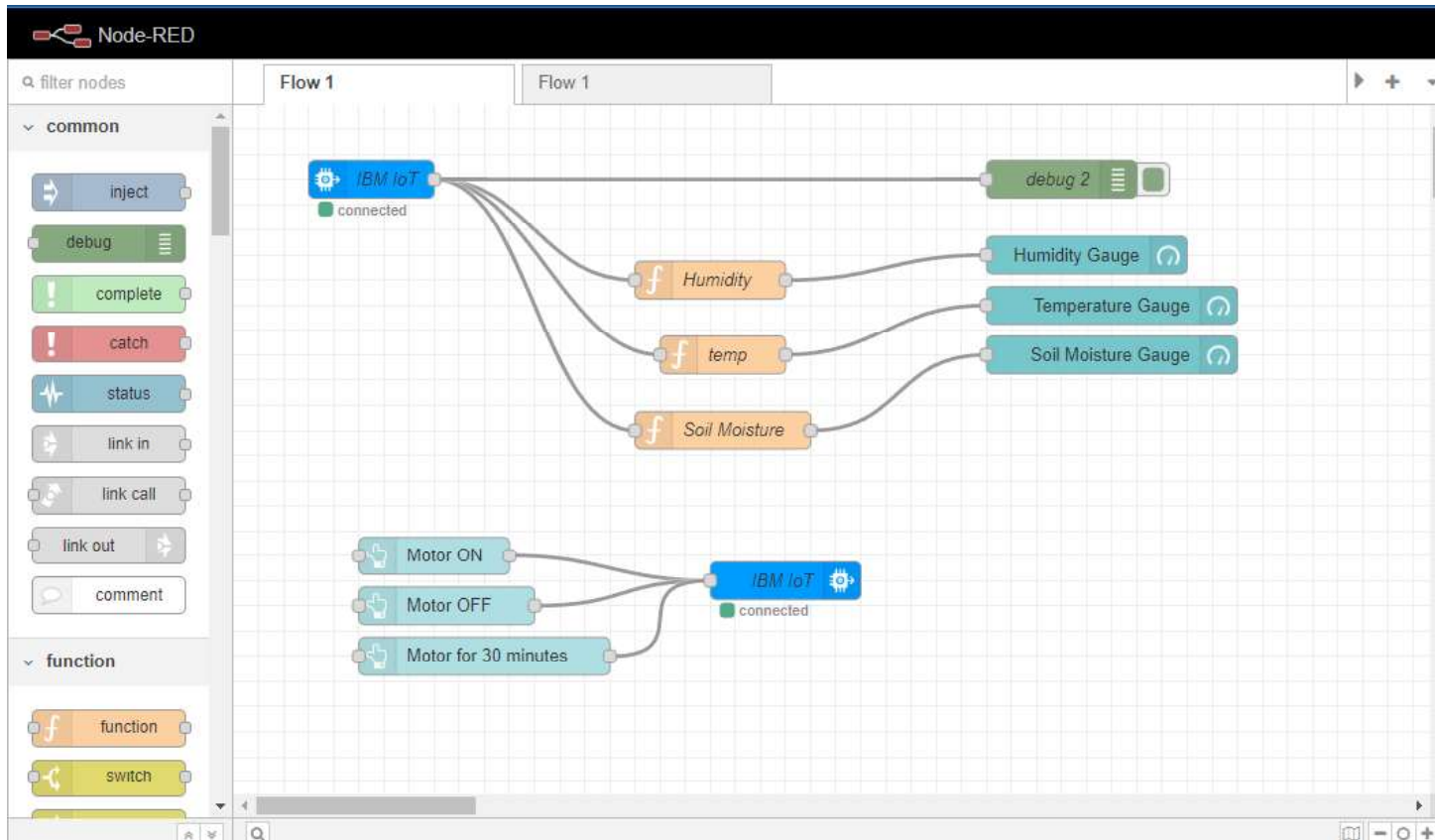


## STEP 1:

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



## STEP 2:

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

The screenshot displays the Node-RED web interface. On the left, the 'Manage Palette' sidebar is visible, showing a search bar and two categories: 'common' and 'function'. The 'common' category is expanded, listing nodes like 'inject', 'debug', 'complete', 'catch', 'status', 'link in', 'link call', 'link out', and 'comment'. The 'function' category is also expanded, showing 'function' and 'switch' nodes. The main workspace shows a flow named 'Flow 1' with an 'IBM IoT' node connected to three output nodes: 'Motor ON', 'Motor OFF', and 'Motor for 30 minutes'. On the right, the 'User Settings' panel is open, showing a list of installed and available nodes. The 'Nodes' tab is selected, and the 'Install' button is visible. The list includes:

Node Name	Version	Nodes Count	Status
node-red	3.0.2	> 49 nodes	in use
node-red-contrib-firebase	1.1.1	> 8 nodes	in use
node-red-contrib-scx-ibmiotapp	0.0.49	> 3 nodes	in use
node-red-dashboard	3.2.0	> 21 nodes	in use
node-red-node-openweathermap	0.5.1	> 2 nodes	in use

## STEP 3:

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

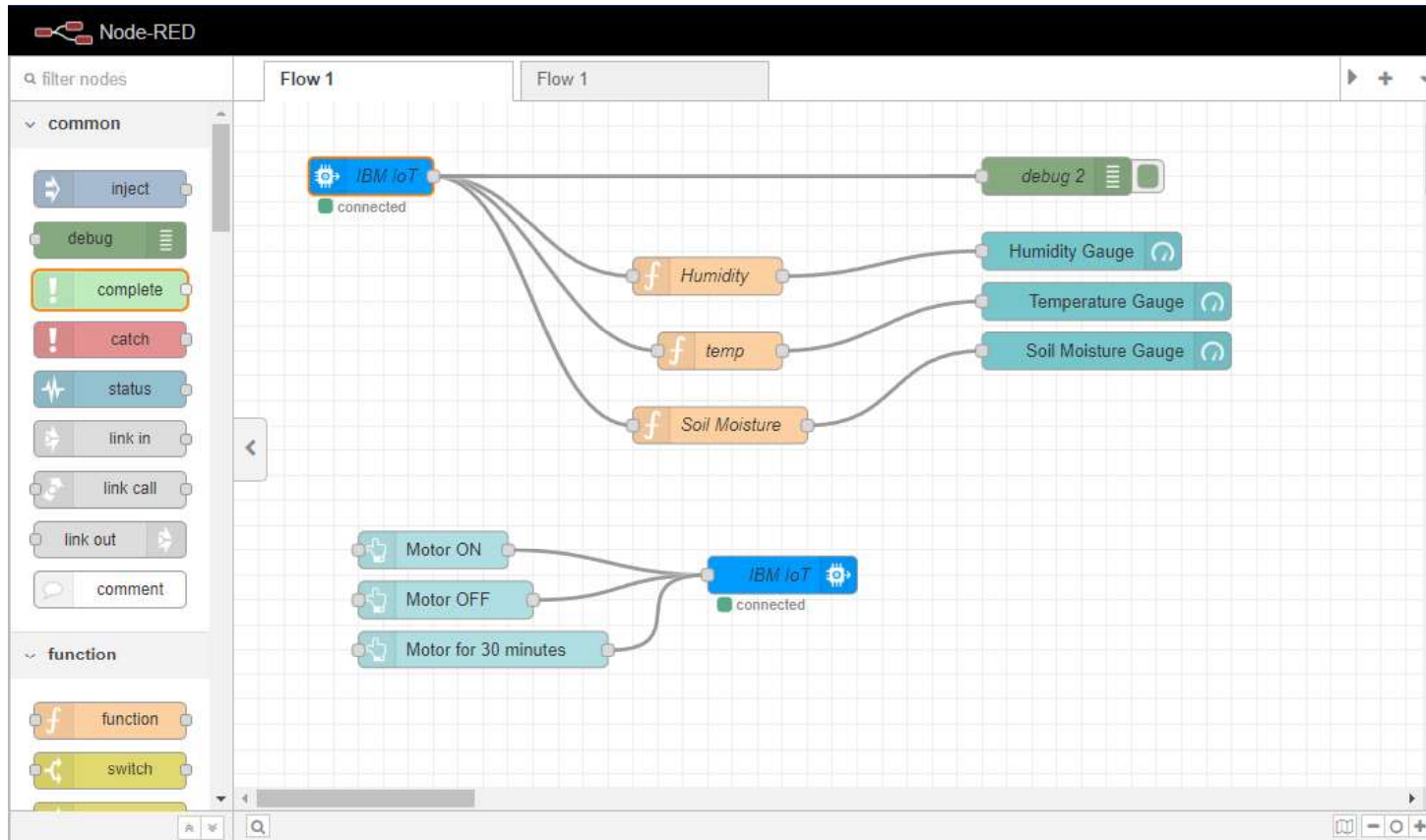
The screenshot displays the Node-RED web interface. On the left, the 'common' and 'function' node palettes are visible. The main workspace shows a flow named 'Flow 1' with an 'IBM IoT' node (blue) connected to three function nodes: 'Humidity', 'temp', and 'Soil Moisture'. Below these, there are three 'Motor' nodes: 'Motor ON', 'Motor OFF', and 'Motor for 30 minutes', all connected to an 'IBM IoT' node (blue). The right-hand panel is titled 'Edit ibmiot in node' and contains a 'Properties' section with 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 panel, there is an 'Enabled' checkbox.

## STEP 4:

Create your flow by drag and drop the elements.



## STEP 5:

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

