

## Develop The Web Application Using Node-RED

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The screenshot displays the Node-RED web interface in a browser. The address bar shows the URL: <https://node-red-miku-2022-11-04.eu-gb.mybluemix.net/red/#flow/8c49b93d9a2db2a3>. The interface includes a left sidebar with a 'filter nodes' search bar and a list of available nodes such as 'numeric', 'slider', 'text input', 'date picker', 'switch', 'colour picker', 'text', 'gauge', 'form', 'audio out', 'notification', 'ui control', 'chart', and 'template'. The main workspace, titled 'Flow 1', shows a flow diagram. It begins with an 'IBM IoT' node (labeled 'connected'). This node branches into two parallel function nodes, 'Humidity' and 'temperature'. Each function node is connected to two output nodes: 'humidity' and 'temperature' (both with circular refresh icons). Additionally, both function nodes are connected to a 'msg.payload' node, which is a green box with a list icon. The right sidebar contains a 'debug' panel showing a log of messages. The messages are JSON objects with a 'topic' of '2/type/weather\_device/id/weather\_today/ev/1/rmt/js' and a 'msg.payload' of a number. The log shows three messages with timestamps: 11/4/2022, 10:46:08 AM (payload 45), 11/4/2022, 10:46:09 AM (payload 29), and 11/4/2022, 10:46:20 AM (payload 42). The bottom of the image shows a Windows taskbar with various application icons and a system tray displaying '29°C Cloudy' and the time '10:49 04-11-2022'.