

# NODE-RED

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The image displays two screenshots from a computer screen. The top screenshot shows the IBM Cloud 'Resource list' page. The bottom screenshot shows the Node-RED web interface.

**Top Screenshot: IBM Cloud Resource list**

The browser address bar shows `cloud.ibm.com/resources`. The page title is 'Resource list'. A 'Create resource' button is in the top right. The table below lists resource categories with their counts:

Name	Group	Location	Product	Status	Tags
Compute (1+)					
Containers (0)					
Networking (0)					
Storage (0)					
AI / Machine Learning (0)					
Analytics (0)					
Blockchain (0)					
Databases (2+)					
Developer tools (3+)					
Logging and monitoring (0)					
Migration (0)					

**Bottom Screenshot: Node-RED Interface**

The browser address bar shows `node-red-hbfsf-2022-11-16.eu-gb.mybluemix.net/red/#flow/ed5b19834515a7db`. The interface shows a flow named 'Flow 1' with the following components:

- Input:** 'IBM IoT' node (connected).
- Processing:** Three function nodes labeled 'Temperature', 'Humidity', and 'Moisture'.
- Output:** Three 'msg.payload' nodes, each connected to a corresponding chart node: 'Temp', 'Humidity', and 'Moisture'.

The right sidebar shows a 'dashboard' with 'Layout', 'Site', and 'Theme' tabs. The 'Tabs & Links' section lists:

- Temp
- Farmer
  - Measured Data
    - Temp
    - Humidity
    - Moisture
- Moisture
  - Moisture

Node-RED interface showing a flow configuration and the 'Edit chart node' dialog.

The flow configuration (Flow 1) includes an 'IBM IoT' node connected to three function nodes labeled 'Temp', 'Hum', and 'Mois'.

The 'Edit chart node' dialog is open, showing the following properties:

- Group: [Farmer] Measured Data
- Size: auto
- Label: Temperature
- Type: Line chart (enlarge points checkbox is unchecked)
- X-axis: last 5 minutes OR 1000 points
- X-axis Label: HH:mm:ss (as UTC checkbox is unchecked)
- Y-axis: min max
- Legend: None (Interpolate linear dropdown is visible)
- Series Colours: (Three color swatches are visible)
- Enabled checkbox is checked

The dashboard on the right shows a 'dashboard' tab with a 'Layout' view. The dashboard structure includes:

- Temp
- Farmer
  - Measured Data
    - Temp
    - Humidity
    - Moisture
- Moisture
  - Moisture

The bottom screenshot shows the 'Edit IBM IoT node' dialog with the following properties:

- Authentication: API Key
- API Key: rub
- Input Type: Device Event
- Device Type: All or +
- Device Id: All or device id e.g. ab12cd231a21
- Event: All or +
- Format: All or json
- QoS: 0
- Name: IBM IoT
- Enabled checkbox is checked