

# Signs with Smart Connectivity for Better Road

## CREATE NODE-RED SERVICE WITH WEB APPLICATION

The screenshot displays the Node-RED web interface in a browser. The address bar shows the URL: <https://node-red-nwmrt-2022-11-04.eu-gb.mybluemix.net/red/#flow/8665e9cd8c893c6d>. The interface includes a left sidebar with a 'filter nodes' search bar and two categories of nodes: 'common' and 'function'. The 'common' category contains nodes like inject, debug, complete, catch, status, link in, link call, link out, and comment. The 'function' category contains function, switch, and change nodes. The main workspace, titled 'Flow 2', shows a flow starting with a 'timestamp' node, followed by a 'msg.payload' node, and then three parallel 'function' nodes. Each 'function' node is connected to a specific output node: 'Location' (with a value of 'abc'), 'Visibility' (with a circular arrow icon), and 'Temperature' (with a line graph icon). The 'IBM IoT 1' node is highlighted in blue and has a 'connected' status indicator. The bottom status bar shows system metrics: 'T: 2.03 MB/s', 'MEM: 59 %', 'I: 2.20 MB/s', and 'CPU: 5 %'. The Windows taskbar is visible at the bottom with icons for File Explorer, Edge, Mail, and other applications.

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The screenshot displays the MIT App Inventor web interface in a browser. The address bar shows the URL <http://ai2.appinventor.mit.edu/#6143126662938624>. The page header includes the MIT App Inventor logo and navigation links: Projects, Connect, Build, Settings, and Help. Below the header, a green bar contains the project name "IBMAPP" and buttons for "Screen1", "Add Screen...", "Remove Screen", and "Publish to Gallery".

The interface is divided into two main sections: the "Palette" on the left and the "Viewer" on the right. The "Palette" section has a search bar labeled "Search Components..." and a "User Interface" category. It lists various UI components with icons and question marks: Button, CheckBox, DatePicker, Image, Label, ListPicker, ListView, Notifier, PasswordTextBox, Slider, Spinner, Switch, TextBox, TimePicker, and WebView.

The "Viewer" section shows a preview of the app on a smartphone. Above the preview, there are settings: a checkbox for "Display hidden components in Viewer" (unchecked), a dropdown for "Phone size (505,320)", and a dropdown for "Android 5+ Devices (Android Material)". The app preview itself has a blue header with the title "WEATHER MONITORING AND CONTROLLING" and a menu icon. Below the header, there are three input fields: "Temperature", "visibility" (highlighted with a green border), and "Light ON" / "Light OFF" buttons.

At the bottom of the browser window, a taskbar shows system information: "1: 3.30 KB/s", "1: 2.44 KB/s", "MEM: 61 %", and "CPU: 0 %". On the right side of the taskbar are icons for Windows, File Explorer, a red shield icon, Google, WhatsApp, and a blue icon.