

```
[
  {
    "id": "d5d1ac02e16a847e",
    "type": "tab",
    "label": "Flow 1",
    "disabled": false,
    "info": "",
    "env": []
  },
  {
    "id": "1533d345e1dc36a9",
    "type": "ui_gauge",
    "z": "d5d1ac02e16a847e",
    "name": "",
    "group": "b0b2466424d96a85",
    "order": 1,
    "width": 0,
    "height": 0,
    "gtype": "gage",
    "title": "Temperature",
    "label": "Celsius",
    "format": "{{value}}",
    "min": 0,
    "max": "100",
    "colors": [
      "#00b500",
      "#e6e600",
      "#ca3838"
    ],
    "seg1": "40",
    "seg2": "60",
    "className": "",
    "x": 910,
    "y": 340,
    "wires": []
  },
  {
    "id": "cbd881198ad25821",
    "type": "function",
    "z": "d5d1ac02e16a847e",
    "name": "Convert",
    "func": "msg.payload=msg.payload.Temperature\nreturn msg;",
    "outputs": 1,
    "noerr": 0,
  }
]
```

```
"initialize": "",
"finalize": "",
"libs": [],
"x": 460,
"y": 340,
"wires": [
  [
    "1533d345e1dc36a9",
    "1cba1c03ecf32aa5",
    "c883c624a3b90fc4",
    "af83517ed28f54e9"
  ]
]
},
{
  "id": "ea14ed512305484e",
  "type": "ibmiot in",
  "z": "d5d1ac02e16a847e",
  "authentication": "apiKey",
  "apiKey": "8d9dadc21a8b3d2f",
  "inputType": "evt",
  "logicalInterface": "",
  "ruleId": "",
  "deviceId": "T1",
  "applicationId": "",
  "deviceType": "Temp",
  "eventType": "+",
  "commandType": "",
  "format": "json",
  "name": "IBM IoT",
  "service": "registered",
  "allDevices": "",
  "allApplications": "",
  "allDeviceTypes": "",
  "allLogicalInterfaces": "",
  "allEvents": true,
  "allCommands": "",
  "allFormats": "",
  "qos": 0,
  "x": 190,
  "y": 340,
  "wires": [
    [
      "cbd881198ad25821"
    ]
  ]
}
```

```

    ]
  ],
  {
    "id": "08daf8c27126b608",
    "type": "ibmiot in",
    "z": "d5d1ac02e16a847e",
    "authentication": "apiKey",
    "apiKey": "8d9dadcd21a8b3d2f",
    "inputType": "evt",
    "logicalInterface": "",
    "ruleId": "",
    "deviceId": "G1",
    "applicationId": "",
    "deviceType": "Gas_Sensor",
    "eventType": "+",
    "commandType": "",
    "format": "json",
    "name": "IBM IoT",
    "service": "registered",
    "allDevices": "",
    "allApplications": "",
    "allDeviceTypes": false,
    "allLogicalInterfaces": "",
    "allEvents": true,
    "allCommands": "",
    "allFormats": "",
    "qos": 0,
    "x": 190,
    "y": 440,
    "wires": [
      [
        "cce26a0bf1e99e72",
        "d4be4869ed5d4f8c",
        "9669c4a7a1ddc6de"
      ]
    ]
  ],
  {
    "id": "cce26a0bf1e99e72",
    "type": "function",
    "z": "d5d1ac02e16a847e",
    "name": "",
    "func": "msg.payload=msg.payload.NO2\nreturn msg;"
  }

```

```

"outputs": 1,
"noerr": 0,
"initialize": "",
"finalize": "",
"libs": [],
"x": 480,
"y": 460,
"wires": [
  [
    "152e5e18a22ea640",
    "c0b625de4d3f7730"
  ]
]
},
{
  "id": "d4be4869ed5d4f8c",
  "type": "function",
  "z": "d5d1ac02e16a847e",
  "name": "",
  "func": "msg.payload=msg.payload.CO\nreturn msg;",
  "outputs": 1,
  "noerr": 0,
  "initialize": "",
  "finalize": "",
  "libs": [],
  "x": 400,
  "y": 540,
  "wires": [
    [
      "574dedc96208c0aa",
      "f3dd2fc7f39bf5f7"
    ]
  ]
},
{
  "id": "9669c4a7a1ddc6de",
  "type": "function",
  "z": "d5d1ac02e16a847e",
  "name": "",
  "func": "msg.payload=msg.payload.CO2\nreturn msg;",
  "outputs": 1,
  "noerr": 0,
  "initialize": "",
  "finalize": "",

```

```
"libs": [],
"x": 340,
"y": 660,
"wires": [
  [
    "8dae8fa1a7ea7415",
    "763a9ae51ae799ec"
  ]
]
},
{
  "id": "152e5e18a22ea640",
  "type": "ui_gauge",
  "z": "d5d1ac02e16a847e",
  "name": "",
  "group": "d2d6e984eb71a537",
  "order": 1,
  "width": 0,
  "height": 0,
  "gtype": "gage",
  "title": "Nitrogen di Oxide",
  "label": "Percentage",
  "format": "{{value}}",
  "min": 0,
  "max": "100",
  "colors": [
    "#00b500",
    "#e6e600",
    "#ca3838"
  ],
  "seg1": "20",
  "seg2": "25",
  "className": "",
  "x": 770,
  "y": 440,
  "wires": []
},
{
  "id": "574dedc96208c0aa",
  "type": "ui_gauge",
  "z": "d5d1ac02e16a847e",
  "name": "",
  "group": "d2d6e984eb71a537",
  "order": 2,
```

```
"width": 0,
"height": 0,
"ctype": "gauge",
"title": "Carbon Mono Oxide",
"label": "percentage",
"format": "{{value}}",
"min": 0,
"max": "100",
"colors": [
    "#00b500",
    "#e6e600",
    "#ca3838"
],
"seg1": "3",
"seg2": "5",
"className": "",
"x": 760,
"y": 540,
"wires": []
},
{
  "id": "8dae8fa1a7ea7415",
  "type": "ui_gauge",
  "z": "d5d1ac02e16a847e",
  "name": "",
  "group": "d2d6e984eb71a537",
  "order": 3,
  "width": 0,
  "height": 0,
  "ctype": "gauge",
  "title": "Carbon di Oxide",
  "label": "Percentage",
  "format": "{{value}}",
  "min": 0,
  "max": "100",
  "colors": [
    "#00b500",
    "#e6e600",
    "#ca3838"
  ],
  "seg1": "20",
  "seg2": "30",
  "className": "",
  "x": 700,
```

```
"y": 700,
"wires": []
},
{
  "id": "8a41db8811f572d9",
  "type": "ui_form",
  "z": "d5d1ac02e16a847e",
  "name": "",
  "label": "",
  "group": "c8492bdcd68680a2",
  "order": 0,
  "width": 0,
  "height": 0,
  "options": [
    {
      "label": "Username",
      "value": "Username",
      "type": "text",
      "required": true,
      "rows": null
    },
    {
      "label": "Email",
      "value": "Email",
      "type": "email",
      "required": true,
      "rows": null
    },
    {
      "label": "Phone Number",
      "value": "Phonenumber",
      "type": "number",
      "required": true,
      "rows": null
    }
  ],
  "formValue": {
    "Username": "",
    "Email": "",
    "Phonenumber": ""
  },
  "payload": "",
  "submit": "submit",
  "cancel": "cancel",
```

```

    "topic": "topic",
    "topicType": "msg",
    "splitLayout": "",
    "className": "",
    "x": 210,
    "y": 760,
    "wires": [
      [
        "40123f46207d3c68"
      ]
    ]
  },
  {
    "id": "40123f46207d3c68",
    "type": "cloudant out",
    "z": "d5d1ac02e16a847e",
    "name": "",
    "cloudant": "3d10849a8821b6a7",
    "database": "usercredentials",
    "service": "_ext_",
    "payonly": true,
    "operation": "insert",
    "x": 720,
    "y": 760,
    "wires": []
  },
  {
    "id": "cec01e40a908c48e",
    "type": "ui_led",
    "z": "d5d1ac02e16a847e",
    "order": 0,
    "group": "b0b2466424d96a85",
    "width": 0,
    "height": 0,
    "label": "Water Sprinkler",
    "labelPlacement": "left",
    "labelAlignment": "left",
    "colorForValue": [
      {
        "color": "#ff0000",
        "value": "false",
        "valueType": "bool"
      },
      {

```



```

        "color": "#008000",
        "value": "true",
        "valueType": "bool"
    }
],
"allowColorForValueInMessage": false,
"shape": "circle",
"showGlow": true,
"name": "",
"x": 850,
"y": 120,
"wires": []
},
{
    "id": "1cba1c03ecf32aa5",
    "type": "function",
    "z": "d5d1ac02e16a847e",
    "name": "",
    "func": "msg.payload=(msg.payload>45)? true: false;\nreturn msg;",
    "outputs": 1,
    "noerr": 0,
    "initialize": "",
    "finalize": "",
    "libs": [],
    "x": 240,
    "y": 120,
    "wires": [
        [
            "80a720021c12cce7"
        ]
    ]
},
{
    "id": "80a720021c12cce7",
    "type": "delay",
    "z": "d5d1ac02e16a847e",
    "name": "",
    "pauseType": "delay",
    "timeout": "1",
    "timeoutUnits": "seconds",
    "rate": "1",
    "nbRateUnits": "1",
    "rateUnits": "second",
    "randomFirst": "1",

```

```

    "randomLast": "5",
    "randomUnits": "seconds",
    "drop": false,
    "allowrate": false,
    "outputs": 1,
    "x": 620,
    "y": 120,
    "wires": [
      [
        "cec01e40a908c48e"
      ]
    ]
  },
  {
    "id": "cebd50b2ed69ccd3",
    "type": "delay",
    "z": "d5d1ac02e16a847e",
    "name": "",
    "pauseType": "delay",
    "timeout": "1",
    "timeoutUnits": "seconds",
    "rate": "1",
    "nbRateUnits": "1",
    "rateUnits": "second",
    "randomFirst": "1",
    "randomLast": "5",
    "randomUnits": "seconds",
    "drop": false,
    "allowrate": false,
    "outputs": 1,
    "x": 620,
    "y": 180,
    "wires": [
      [
        "1b0bc39e91d2d4dc"
      ]
    ]
  },
  {
    "id": "56b6fd723b216743",
    "type": "delay",
    "z": "d5d1ac02e16a847e",
    "name": "",
    "pauseType": "delay",

```

```

    "timeout": "1",
    "timeoutUnits": "seconds",
    "rate": "1",
    "nbRateUnits": "1",
    "rateUnits": "second",
    "randomFirst": "1",
    "randomLast": "5",
    "randomUnits": "seconds",
    "drop": false,
    "allowrate": false,
    "outputs": 1,
    "x": 620,
    "y": 240,
    "wires": [
      [
        "dc9bb5498dd98dfc"
      ]
    ]
  },
  {
    "id": "1b0bc39e91d2d4dc",
    "type": "ui_led",
    "z": "d5d1ac02e16a847e",
    "order": 1,
    "group": "b0b2466424d96a85",
    "width": 0,
    "height": 0,
    "label": "Exhaust fan",
    "labelPlacement": "left",
    "labelAlignment": "left",
    "colorForValue": [
      {
        "color": "#ff0000",
        "value": "false",
        "valueType": "bool"
      },
      {
        "color": "#008000",
        "value": "true",
        "valueType": "bool"
      }
    ],
    "allowColorForValueInMessage": false,
    "shape": "circle",

```

```

    "showGlow": true,
    "name": "",
    "x": 850,
    "y": 180,
    "wires": []
  },
  {
    "id": "dc9bb5498dd98dfc",
    "type": "ui_led",
    "z": "d5d1ac02e16a847e",
    "order": 2,
    "group": "b0b2466424d96a85",
    "width": 0,
    "height": 0,
    "label": "Fire Alarm",
    "labelPlacement": "left",
    "labelAlignment": "left",
    "colorForValue": [
      {
        "color": "#ff0000",
        "value": "false",
        "valueType": "bool"
      },
      {
        "color": "#008000",
        "value": "true",
        "valueType": "bool"
      }
    ],
    "allowColorForValueInMessage": false,
    "shape": "circle",
    "showGlow": true,
    "name": "",
    "x": 850,
    "y": 240,
    "wires": []
  },
  {
    "id": "c883c624a3b90fc4",
    "type": "ui_chart",
    "z": "d5d1ac02e16a847e",
    "name": "",
    "group": "b0b2466424d96a85",
    "order": 0,

```

```
"width": 0,
"height": 0,
"label": "Analytics",
"chartType": "line",
"legend": "false",
"xformat": "auto",
"interpolate": "linear",
"nodata": "Waiting for data",
"dot": false,
"ymin": "0",
"ymax": "100",
"removeOlder": "60",
"removeOlderPoints": "",
"removeOlderUnit": "1",
"cutout": 0,
"useOneColor": false,
"useUTC": false,
"colors": [
  "#42b0ff",
  "#aec7e8",
  "#ff7f0e",
  "#1adb1a",
  "#98df8a",
  "#d62728",
  "#ff9896",
  "#9467bd",
  "#c5b0d5"
],
"outputs": 1,
"useDifferentColor": false,
"className": "",
"x": 940,
"y": 380,
"wires": [
  []
]
},
{
  "id": "763a9ae51ae799ec",
  "type": "ui_chart",
  "z": "d5d1ac02e16a847e",
  "name": "",
  "group": "5a710181faf582af",
  "order": 5,
```

```
"width": 0,
"height": 0,
"label": "CO2 Analysis",
"chartType": "line",
"legend": "false",
"xformat": "HH:mm:ss",
"interpolate": "linear",
"nodata": "",
"dot": false,
"ymin": "0",
"ymax": "100",
"removeOlder": "60",
"removeOlderPoints": "",
"removeOlderUnit": "1",
"cutout": 0,
"useOneColor": false,
"useUTC": false,
"colors": [
  "#1f77b4",
  "#aec7e8",
  "#ff7f0e",
  "#2ca02c",
  "#98df8a",
  "#df2a2a",
  "#ff9896",
  "#9467bd",
  "#c5b0d5"
],
"outputs": 1,
"useDifferentColor": false,
"className": "",
"x": 700,
"y": 640,
"wires": [
  []
]
},
{
  "id": "c0b625de4d3f7730",
  "type": "ui_chart",
  "z": "d5d1ac02e16a847e",
  "name": "",
  "group": "5a710181faf582af",
  "order": 3,
```

```
"width": 0,
"height": 0,
"label": "NO2 Analysis",
"chartType": "line",
"legend": "false",
"xformat": "HH:mm:ss",
"interpolate": "linear",
"nodata": "",
"dot": false,
"ymin": "0",
"ymax": "100",
"removeOlder": "60",
"removeOlderPoints": "",
"removeOlderUnit": "1",
"cutout": 0,
"useOneColor": false,
"useUTC": false,
"colors": [
  "#1f77b4",
  "#aec7e8",
  "#ff7f0e",
  "#2ca02c",
  "#98df8a",
  "#d62728",
  "#ff9896",
  "#9467bd",
  "#c5b0d5"
],
"outputs": 1,
"useDifferentColor": false,
"className": "",
"x": 740,
"y": 500,
"wires": [
  []
]
},
{
  "id": "f3dd2fc7f39bf5f7",
  "type": "ui_chart",
  "z": "d5d1ac02e16a847e",
  "name": "",
  "group": "5a710181faf582af",
  "order": 4,
```

```

"width": 0,
"height": 0,
"label": "CO Analysis",
"chartType": "line",
"legend": "false",
"xformat": "HH:mm:ss",
"interpolate": "linear",
"nodata": "",
"dot": false,
"ymin": "0",
"ymax": "100",
"removeOlder": "60",
"removeOlderPoints": "",
"removeOlderUnit": "1",
"cutout": 0,
"useOneColor": false,
"useUTC": false,
"colors": [
    "#1f77b4",
    "#aec7e8",
    "#ff7f0e",
    "#2ca52c",
    "#98df8a",
    "#d62728",
    "#ff9896",
    "#9467bd",
    "#c5b0d5"
],
"outputs": 1,
"useDifferentColor": false,
"className": "",
"x": 750,
"y": 580,
"wires": [
    []
]
},
{
    "id": "af83517ed28f54e9",
    "type": "function",
    "z": "d5d1ac02e16a847e",
    "name": "",
    "func": "msg.payload=(msg.payload>70)? true: false;\nreturn msg;",
    "outputs": 1,

```



```
"noerr": 0,
"initialize": "",
"finalize": "",
"libs": [],
"x": 360,
"y": 180,
"wires": [
  [
    "56b6fd723b216743",
    "cebd50b2ed69ccd3"
  ]
]
},
{
  "id": "5cd6db4b75445da3",
  "type": "debug",
  "z": "d5d1ac02e16a847e",
  "name": "",
  "active": true,
  "tosidebar": true,
  "console": false,
  "tostatus": false,
  "complete": "payload",
  "targetType": "msg",
  "statusVal": "",
  "statusType": "auto",
  "x": 690,
  "y": 920,
  "wires": []
},
{
  "id": "ab2c14742c0e6cb4",
  "type": "cloudant in",
  "z": "d5d1ac02e16a847e",
  "name": "",
  "cloudant": "3d10849a8821b6a7",
  "database": "usercredentials",
  "service": "_ext_",
  "search": "_all_",
  "design": "Usercredentials",
  "index": "Phonenumber",
  "x": 460,
  "y": 860,
  "wires": [
```

```
[
  "5cd6db4b75445da3"
]
},
{
  "id": "7c787911c08c4fcb",
  "type": "inject",
  "z": "d5d1ac02e16a847e",
  "name": "",
  "props": [
    {
      "p": "payload"
    },
    {
      "p": "topic",
      "vt": "str"
    }
  ],
  "repeat": "",
  "crontab": "",
  "once": false,
  "onceDelay": 0.1,
  "topic": "",
  "payload": "",
  "payloadType": "date",
  "x": 160,
  "y": 860,
  "wires": [
    [
      "ab2c14742c0e6cb4"
    ]
  ]
},
{
  "id": "1d8c19444aee18bf",
  "type": "debug",
  "z": "d5d1ac02e16a847e",
  "name": "",
  "active": true,
  "tosidebar": true,
  "console": false,
  "tostatus": false,
  "complete": "false",
```

```

    "statusVal": "",
    "statusType": "auto",
    "x": 850,
    "y": 20,
    "wires": []
  },
  {
    "id": "3c36398fb917a7c9",
    "type": "python-function",
    "z": "d5d1ac02e16a847e",
    "name": "",
    "func": "import requests\nurl = \"https://www.fast2sms.com/dev/bulkV2\"\npayload =
\"sender_id=FSTSMS&message=Alert!&language=english&route=p&numbers=9095057479\"\n
headers = {\n'authorization':
\"o0azwVFNHOM5B3hrRxdenyU2cfZujqSpYEX7t8LAgJPb9kliWCugDvo1n0kcY8TGH0t3dlQws
KpLbAJU\", \n'Content-Type': \"application/x-www-form-urlencoded\", \n'Cache-Control':
\n'no-cache\", \n}\nresponse = requests.request(\"POST\", url, data=payload,
headers=headers)\nprint(response.text)\n",
    "outputs": 1,
    "x": 580,
    "y": 20,
    "wires": [
      [
        "1d8c19444aee18bf"
      ]
    ]
  },
  {
    "id": "057ef750bef3fc86",
    "type": "inject",
    "z": "d5d1ac02e16a847e",
    "name": "",
    "props": [
      {
        "p": "payload"
      },
      {
        "p": "topic",
        "vt": "str"
      }
    ]
  },
  "repeat": "",
  "crontab": "",
  "once": false,

```

```
"onceDelay": 0.1,
"topic": "",
"payload": "",
"payloadType": "date",
"x": 180,
"y": 20,
"wires": [
  [
    "3c36398fb917a7c9"
  ]
]
},
{
  "id": "b0b2466424d96a85",
  "type": "ui_group",
  "name": "Temperature",
  "tab": "477494a5baf03dbe",
  "order": 3,
  "disp": true,
  "width": "6",
  "collapse": false,
  "className": ""
},
{
  "id": "8d9dad21a8b3d2f",
  "type": "ibmiot",
  "name": "IBM_IOT",
  "keepalive": "60",
  "serverName": "lryrya.messaging.internetofthings.ibmcloud.com",
  "cleansession": true,
  "appld": "",
  "shared": false
},
{
  "id": "d2d6e984eb71a537",
  "type": "ui_group",
  "name": "Gas Sensor",
  "tab": "e208207b5344b7ac",
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