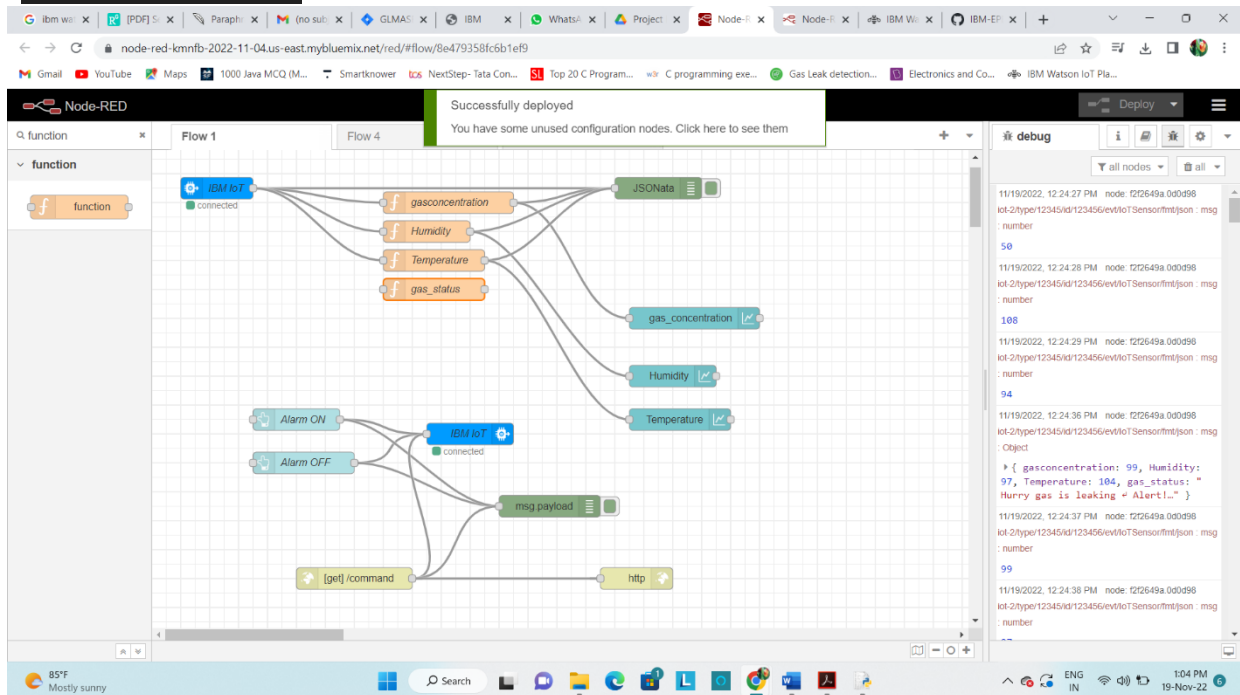


# CREATE AND CONFIGURE IBM CLOUD SERVICE

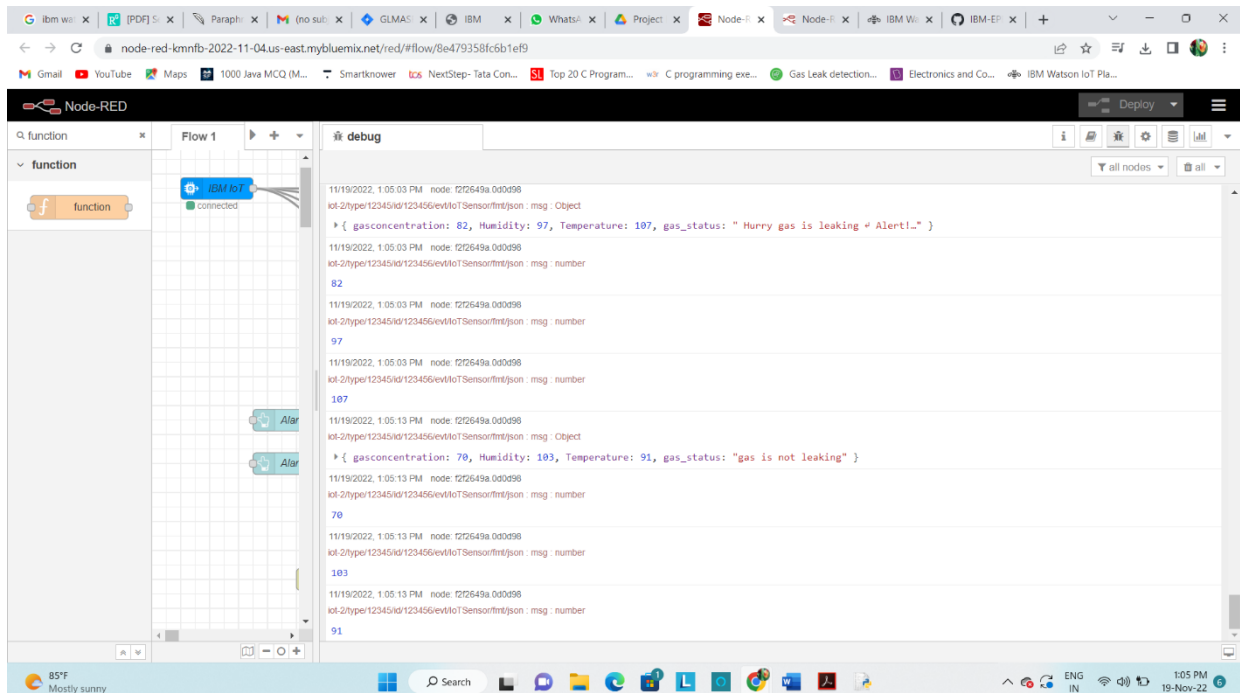
## Create Node-Red Service

Date	19 November 2022
Team ID	PNT2022TMID13514
Project name	Gas Leakage Monitoring & Alerting System for Industries

### NODE RED FLOW



### NODE RED OUTPUT:



The screenshot shows the Node-RED web interface in a browser. The main workspace displays a flow diagram with the following components:

- Flow 1:** A `[get] /gas` node connected to a `gasdetection` node, which is then connected to an `http` node.
- Flow 4:** An `IBM IoT` node (labeled "connected") connected to a `json` node, which is then connected to a `[ws] /ws/gas` node.
- Flow 5:** A `mydb` node connected to the `json` node in Flow 4.

The right-hand sidebar shows the **debug** console with a list of messages. The messages are JSON objects containing sensor data and status updates:

```

{ gasconcentration: 87, Humidity: 99, Temperature: 107,
  gas_status: "Hurry gas is leaking - Alert!" }
{ gasconcentration: 85, Humidity: 93, Temperature: 96,
  gas_status: "Hurry gas is leaking - Alert!" }

```

The bottom of the browser window shows the Windows taskbar with the date and time as 1:09 PM on 19-Nov-22.

## NODE RED DASHBOARD:

The screenshot shows the Node-RED Dashboard interface. The top section is titled **Smart Industry**. Below this, there are three line graphs showing real-time data:

- gas\_concentration:** A line graph showing values fluctuating between approximately 90 and 110.
- Humidity:** A line graph showing values fluctuating between approximately 90 and 110.
- Temperature:** A line graph showing values fluctuating between approximately 90 and 110.

Below the graphs, there is a section titled **Smart Switch Board** with two large blue buttons:

- ALARM OFF**
- ALARM ON**

The bottom of the browser window shows the Windows taskbar with the date and time as 8:11 PM on 18-Nov-22.

