

# Gas Leakage Monitoring And Alerting System For Industries

Team ID : PNT2022TMID49676

## SPRINT -2

### Software

#### 1.Create device in the IOT Watson Platform

IBM Watson IoT Platform

Browse Devices

All Devices Diagnose

This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

Device Simulator

Device ID	Status	Device Type	Class ID	Date Added
1234	Disconnected	NodeMCU	Device	Nov 17, 2022 5:57 PM
BME280_Sensor	Disconnected	ESP32_Controller	Device	Nov 18, 2022 9:23 PM
PNT2022TMID49676	Disconnected	ArduinoUNO	Device	Nov 18, 2022 12:23 PM

Items per page 50 | 1-3 of 3 items

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## 2. Connet the Device with the wowki simulation

The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A search bar is present with the text 'Search by Device ID'. A table lists devices with columns: Device ID, Status, Device Type, Class ID, and Date Added. Two devices are listed: ID 1234 (Disconnected, NodeMCU) and ID 12345 (Connected, ArduinoUNO). The '12345' device is selected, and its details are shown in a modal window. The details include: Device ID (12345), Device Type (ArduinoUNO), Date Added (Nov 19, 2022 12:15 PM), Added By (950419104017@smartinternz.com), and Connection Status (Connected, Connection Time: Nov 19, 2022 12:21 PM, Client Address: 50.31.197.64 Insecure). The 'Device Simulator' toggle is visible in the top right.

Device ID	Status	Device Type	Class ID	Date Added
1234	Disconnected	NodeMCU	Device	Nov 17, 2022 5:57 PM
12345	Connected	ArduinoUNO	Device	Nov 19, 2022 12:15 PM

**Device Details for 12345:**

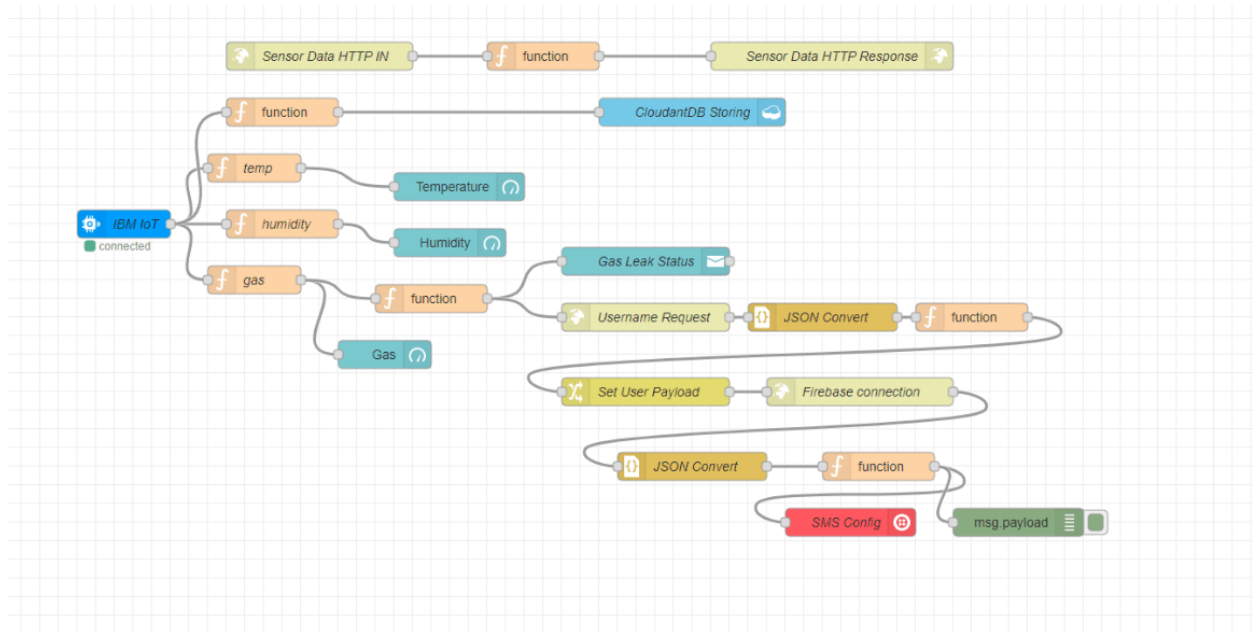
- Device ID: 12345
- Device Type: ArduinoUNO
- Date Added: Nov 19, 2022 12:15 PM
- Added By: 950419104017@smartinternz.com
- Connection Status: Connected  
Connection Time: Nov 19, 2022 12:21 PM  
Client Address: 50.31.197.64 Insecure

## 3. While simulation the events created

The screenshot shows the IBM Watson IoT Platform dashboard with the 'Recent Events' tab selected for device 12345. A message states: 'The recent events listed show the live stream of data that is coming and going from this device.' Below this is a table of events.

Event	Value	Format	Last Received
DATA	{"temperature":80,"humidity":100,"gas_level":2...	json	a few seconds ago
DATA	{"temperature":80,"humidity":100,"gas_level":2...	json	a few seconds ago
DATA	{"temperature":80,"humidity":100,"gas_level":8...	json	a few seconds ago
DATA	{"temperature":80,"humidity":100,"gas_level":5...	json	a few seconds ago
DATA	{"temperature":80,"humidity":100,"gas_level":2...	json	a few seconds ago

## 4. Node Red configuration



## 5. Node Red Dashboard

