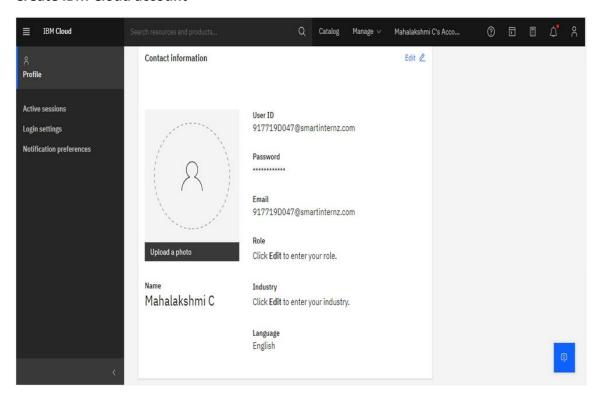
# Sprint 2

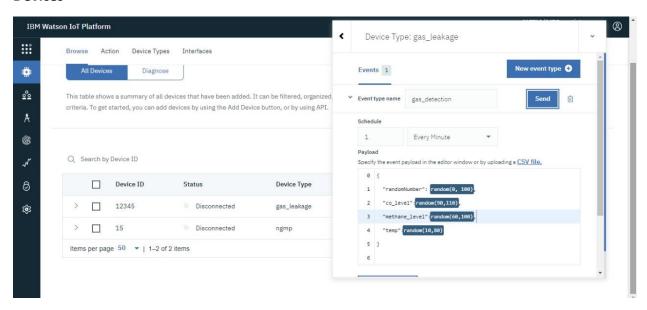
## Storing data using node red

Team ID	PNT2022TMID21380
Project Name	Gas leakage Monitoring and Alerting System

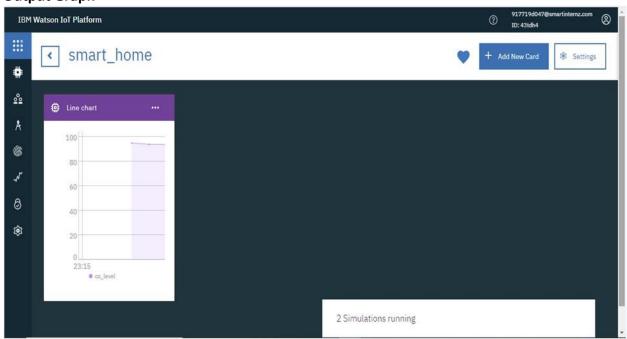
## **Create IBM Cloud account**



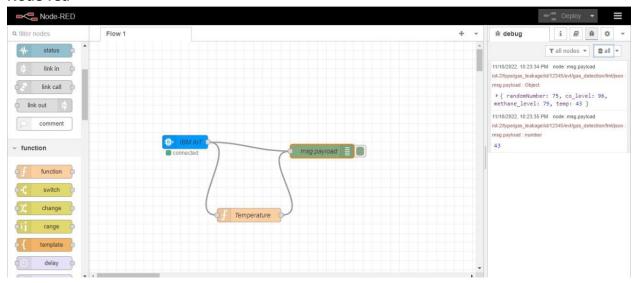
#### **Devices**



## **Output Graph**



## Node-red



## Code

```
#include <LiquidCrystal.h>
        LiquidCrystal lcd(5,6,8,9,10,11);
    int redled = 2;
    int greenled = 3;
    int buzzer = 4;
    int sensor = A0;
    int sensorThresh = 400;
    void setup()
    {
        pinMode(redled, OUTPUT);
        pinMode(buzzer,OUTPUT);
}
```

```
pinMode(sensor,INPUT);
 Serial.begin(9600);
  lcd.begin(16,2);
}
void loop()
{
 int analogValue = analogRead(sensor);
   Serial.print(analogValue);
    if(analogValue>sensorThresh)
    {
      digitalWrite(redled,HIGH);
    digitalWrite(greenled,LOW);
     tone(buzzer,1000,10000);
     lcd.clear();
     lcd.setCursor(0,1);
     lcd.print("ALERT");
     delay(1000);
     lcd.clear();
     lcd.setCursor(0,1);
     lcd.print("EVACUATE");
     delay(1000);
```

```
}
 else
 {
  digitalWrite(greenled,HIGH);
  digitalWrite(redled,LOW);
  noTone(buzzer);
  lcd.clear();
  lcd.setCursor(0,0);
  lcd.print("SAFE");
  delay(1000);
  lcd.clear();
  lcd.setCursor(0,1);
  lcd.print("ALL CLEAR");
  delay(1000);
 }
}
```