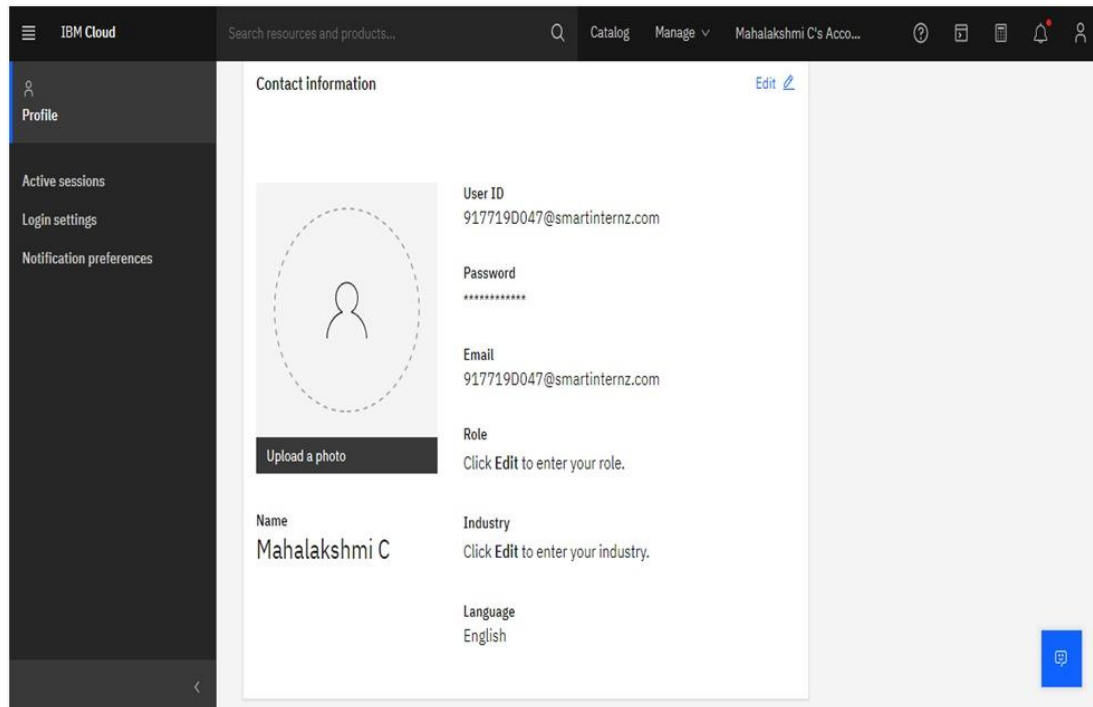


## Sprint 1

### IBM Watson IOT Platform

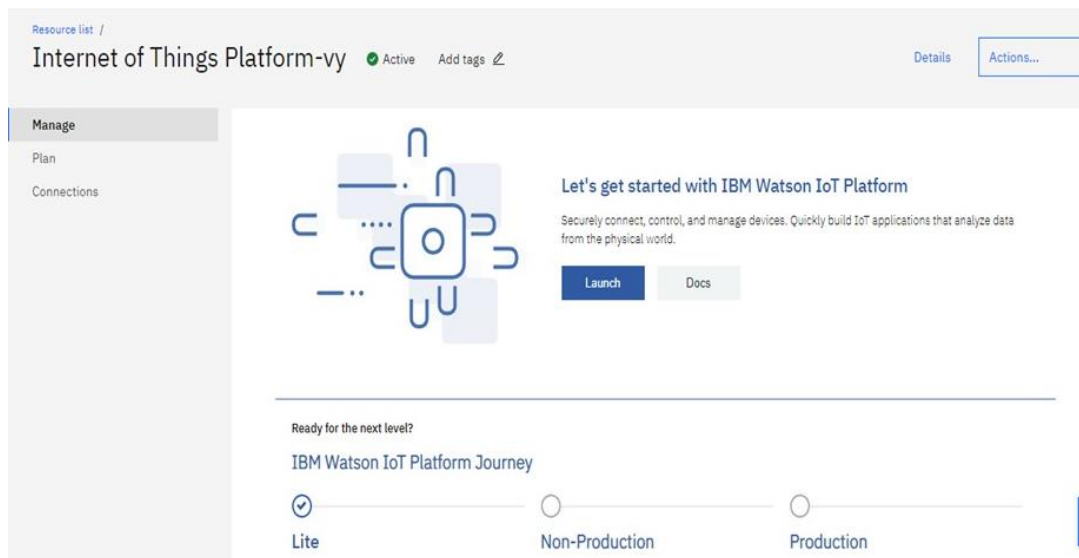
Team ID	PNT2022TMID21380
Project Name	Gas leakage Monitoring and Alerting System

#### Create IBM Cloud account



The screenshot shows the IBM Cloud user profile page. The left sidebar contains navigation links: Profile, Active sessions, Login settings, and Notification preferences. The main content area is titled 'Contact information' and includes an 'Edit' link. It displays the following details: User ID (917719D047@smartinternz.com), Password (masked with asterisks), Email (917719D047@smartinternz.com), Role (Click Edit to enter your role), Name (Mahalakshmi C), Industry (Click Edit to enter your industry), and Language (English). There is an 'Upload a photo' button and a blue chat icon in the bottom right corner.

#### Create IOT Platform



The screenshot shows the IBM Watson IoT Platform resource page. The top bar includes 'Resource list /', the resource name 'Internet of Things Platform-vy' with an 'Active' status and 'Add tags' link, and 'Details' and 'Actions...' buttons. The left sidebar has 'Manage' selected, with sub-links for 'Plan' and 'Connections'. The main content area features a diagram of a central node connected to various devices. Below the diagram is a section titled 'Let's get started with IBM Watson IoT Platform' with the text 'Securely connect, control, and manage devices. Quickly build IoT applications that analyze data from the physical world.' and 'Launch' and 'Docs' buttons. At the bottom, there is a progress bar titled 'Ready for the next level?' and 'IBM Watson IoT Platform Journey' with three stages: 'Lite' (checked), 'Non-Production', and 'Production'.

## Create devices

[Browse](#) [Action](#) [Device Types](#) [Interfaces](#) [Add Device](#)

### 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.

Device Simulator 101

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added
> <input type="checkbox"/>	12345	Disconnected	gas_leakage	Device	Nov 12, 2022 2:04 AM
> <input type="checkbox"/>	15	Disconnected	ngmp	2 Simulations running	
Items per page 50   1-2 of 2 items					

## Create boards

IBM Watson IoT Platform 917719d047@smartintrnz.com ID: 431dih4 [+ Create New Board](#)

[Your boards](#) [Public boards](#)

### Your boards

Sort By Recently changed

SMART\_HOME

1 Card

Owned by you

USAGE OVERVIEW

3 Cards

Owned by you

RISK AND SECURITY OVERVIEW

4 Cards

Owned by you

+

Boards shared with you

2 Simulations running

## 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(greenled,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);  
    }  
}
```