

SPRINT 2

TEAM ID: PNT2022TMID11502

Gas Leakage Monitoring and Alerting System

AIM:

To create device in the IOT Watson Platform and Configure Node Red Services.

REQUIREMENT:

IBM cloud, IBM IOT WATSON PLATFORM,NODE RED SERVICES.

WORKFLOW:

STEP 1:

Log on to IBM cloud and create IBM Watson IOT Platform from IBM cloud Dashboard.

STEP 2:

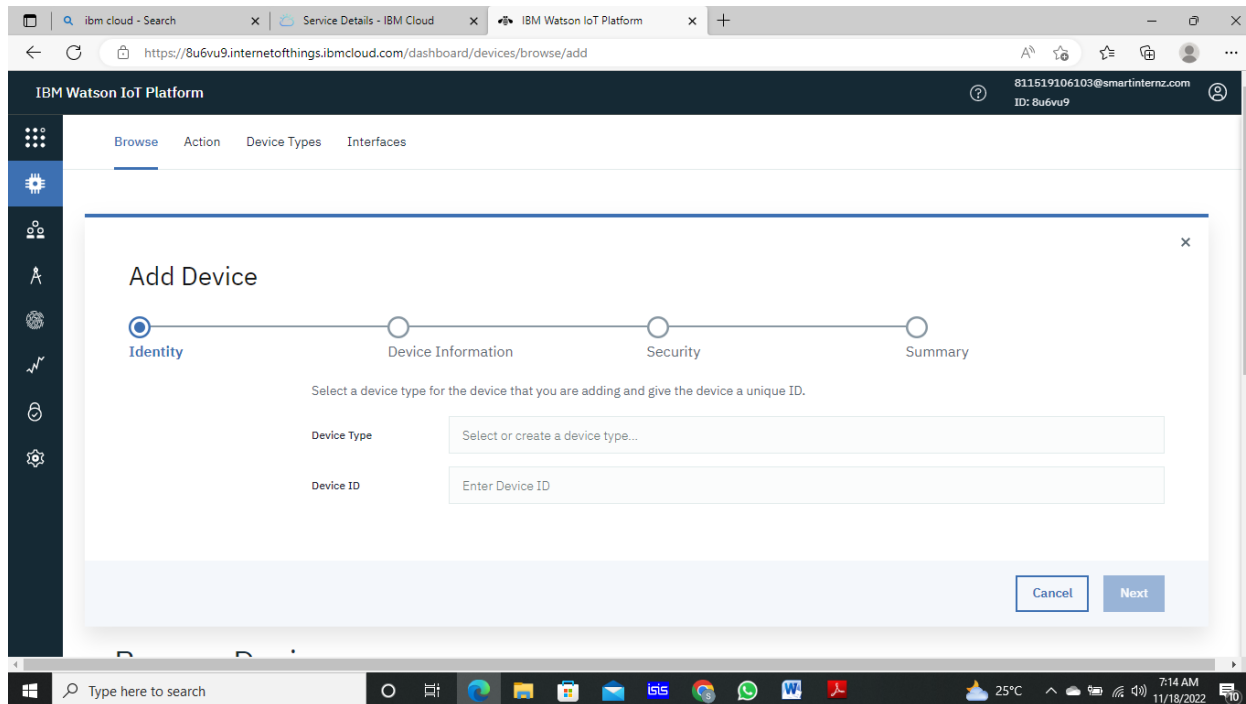
After Creating IBM Watson IOT Platform,create an Organization

The screenshot displays the IBM Watson IoT Platform interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. The main heading is 'Browse Devices'. Below this, there are tabs for 'All Devices' and 'Diagnose'. A descriptive text states: '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.' A search bar labeled 'Search by Device ID' is present. To the right, there is a 'Device Simulator' toggle switch and a filter icon. The table below has columns: Device ID, Status, Device Type, Class ID, and Date Added. It contains one entry with Device ID 12345678, Status Disconnected, Device Type 12345678, Class ID Device, and Date Added Nov 17, 2022 7:10 AM. At the bottom, it shows 'Items per page 50' and '1 of 1 page'.

Device ID	Status	Device Type	Class ID	Date Added
12345678	Disconnected	12345678	Device	Nov 17, 2022 7:10 AM

STEP 3:

Create an device IBM IOT PALTFORM.



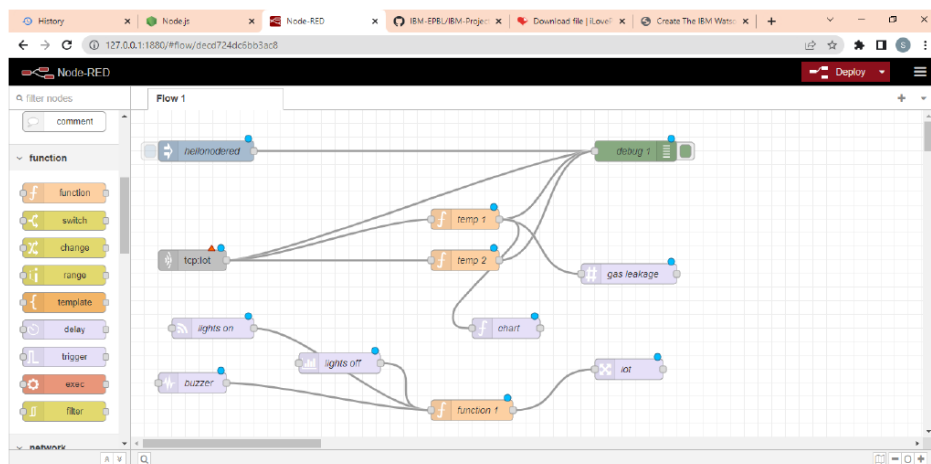
STEP 4:

NODE RED SERVICE

- INSTALL IBM IOT IN MANGE PALETTE.
- INSTALL NODE RED DASHBOARD.

STEP 5:

Configuring the corresponding nodes



STEP 6:

Deploy the Services and verify the output values.

OUTPUT IN IBM WATSON IOT PLATFORM:

The screenshot displays the IBM Watson IoT Platform interface. The top navigation bar includes tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. A user profile is visible in the top right corner with the email '811519106103@smartinternz.com' and ID '8u6vu9'. The main content area shows a list of devices, with one device selected and its details expanded. The device is identified by ID '12345678' and is currently 'Disconnected'. The details panel provides the following information:

Identity	Device Information	Recent Events	State	Logs
Device ID	12345678			
Device Type	12345678			
Date Added	Nov 17, 2022 7:10 AM			
Added By	811519106103@smartinternz.com			
Connection Status	Disconnected Last Connected: Nov 18, 2022 3:02 AM Client Address: 42.110.180.177 SecureToken Duration: a few seconds Data Transferred: 349 B			

At the bottom of the device details panel, it indicates 'Items per page 50' and '1-1 of 1 item'. The bottom of the screenshot shows a Windows taskbar with various application icons and a system tray displaying the temperature as 25°C and the time as 7:23 AM on 11/18/2022.