

DELIVERY OF SPRINT-2

(PUBLISHING THA DATA TO THE IBM CLOUD)

Team ID	PNT2022TMID453803
Team Members	Siddiq Bala B – 714019106104 Subash B - 714019106110 Wasim Ansari N - 714019106133 Yuvan Shankar N S - 714019106136
Project Title	Gas Leakage Monitoring And Alerting System For Industries

The data has to be published to the IBM cloud. In the python script, the values for the gas, temperature, humidity and fire have been generated and published to IBM cloud platform. This is achieved by importing the required libraries in the python script and also specifying the organization, deviceType, deviceid, authMethod and authToken to integrate with the specific cloud account, so that the data will be published to IBM cloud platform. A threshold value has been fixed for each module and if any value exceeds this threshold value, then an alert message has been generated.

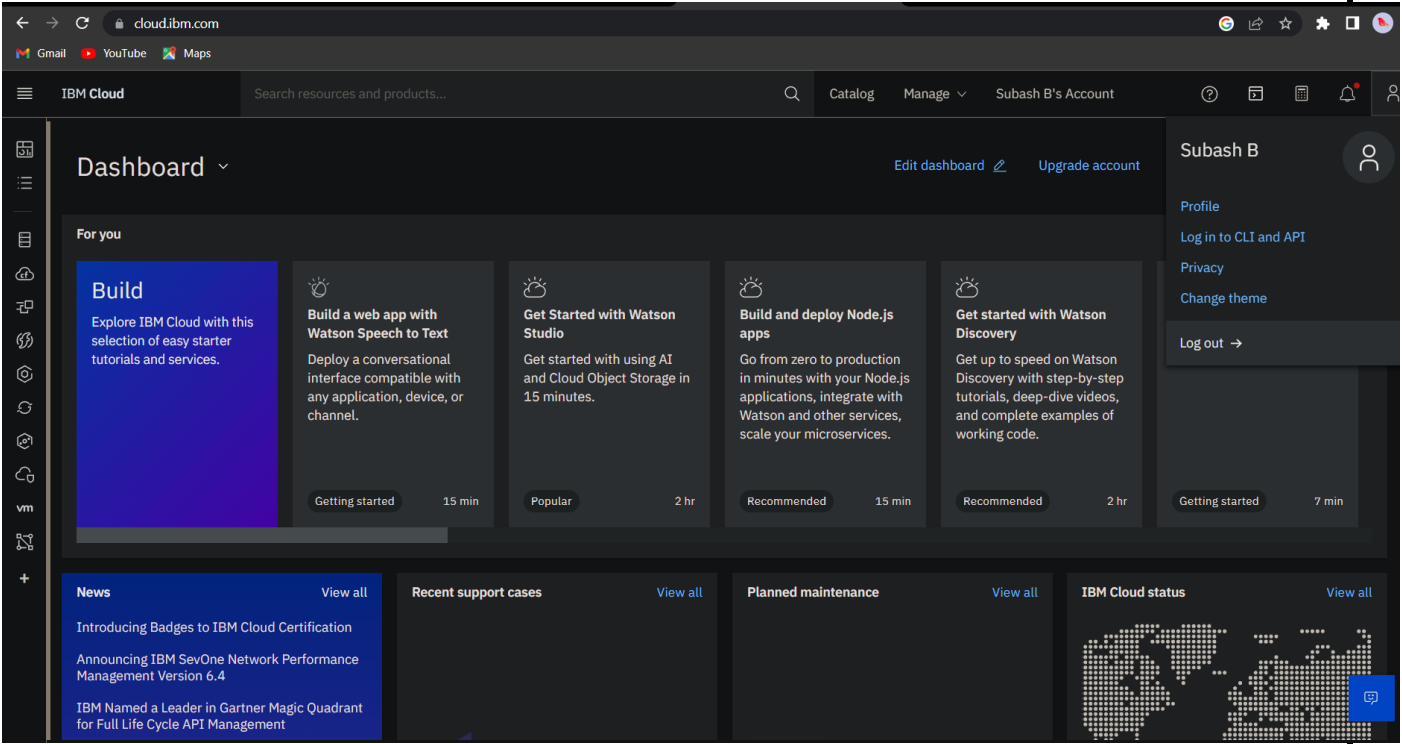
In order to send the data from the python script to the cloud , the cloud account has been created for each team members.

IBM Cloud Services:

IBM is one of the large cloud computing providers on the planet. The [“IBM Cloud”](#) label is an umbrella category that encompasses its hardware, software and services for helping enterprises build private clouds. Protecting the company’s data is critical. Cloud storage with automated backup is scalable, flexible and provides peace of mind.

IBM Cloud Accounts:

Subash B - 714019106110



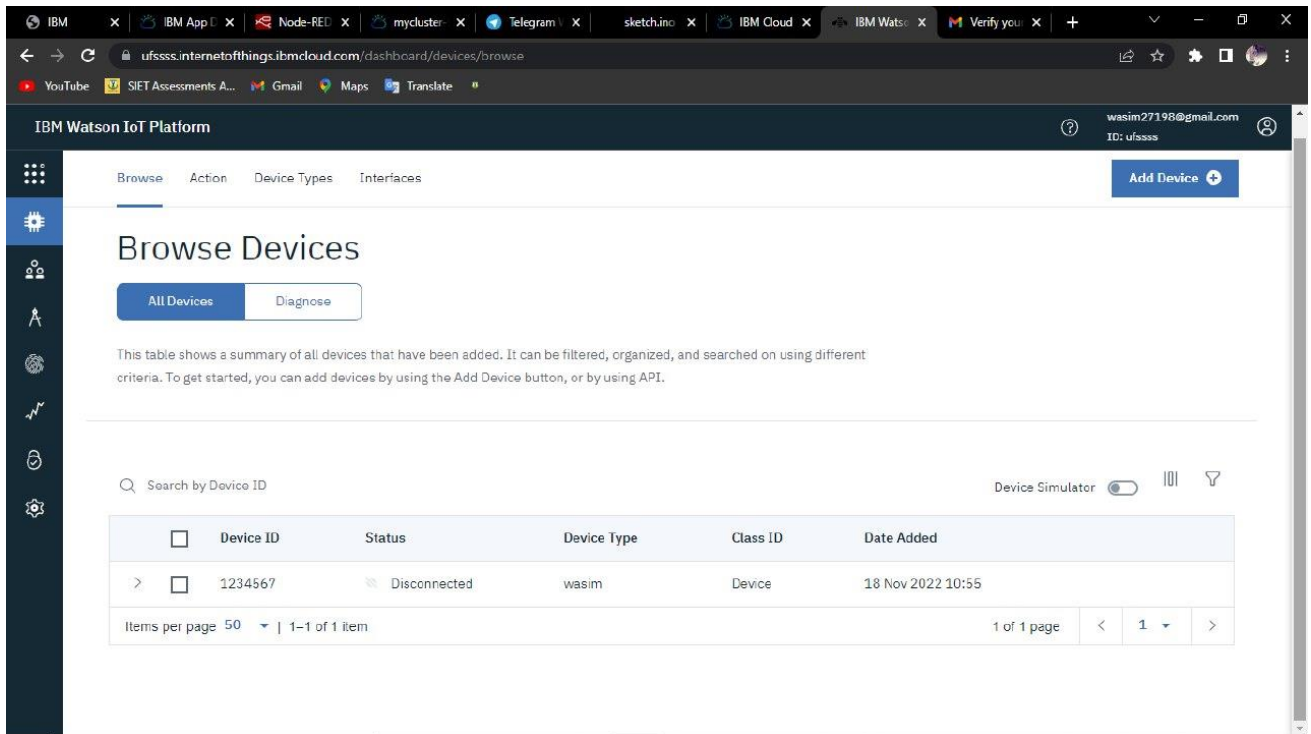
Wasim Ansari N - 714019106133

The screenshot shows the IBM Cloud Dashboard for user Wasim Ansari. The browser tabs include IBM, IBM API, Node-RED, mydust, Telegram, sketch, New ES, IBM Cloud, IBM Watson, and Verify. The dashboard features a sidebar with navigation icons and a main content area. The 'For you' section includes tiles for 'Build', 'Explore IBM Cloud Shell', 'Create a Kubernetes cluster', 'Use Analytics Engine', and 'Deploy on Cloud'. The 'Build' tile is highlighted with a blue background. Below the 'For you' section, there are sections for 'User access', 'News' (with a link to 'Introducing Badges to IBM Cloud Certification'), and 'Planned maintenance'. The user's profile menu is open, showing options like 'Profile', 'Log in to CLI and API', 'Privacy', 'Change theme', and 'Log out'.

Yuvan Shankar N S - 714019106136

The screenshot shows the IBM Cloud Dashboard for user Yuvan Shankar N S. The browser tabs include IBM, Running on, Roundcube, Sign up for, IBM-Project, Node-RED, IBM Watson, and IBM Cloud. The dashboard layout is similar to the first one, with a sidebar and a main content area. The 'For you' section includes tiles for 'Build', 'Build a web app with Watson Speech to Text', 'Get Started with Watson Studio', 'IBM Watson Knowledge Catalog', and 'Build a V Cloud (V)'. The 'Build' tile is highlighted with a blue background. Below the 'For you' section, there are sections for 'User access', 'News' (with a link to 'IBM Named a Leader in Gartner Magic Quadrant for Full Life Cycle API Management'), and 'Planned maintenance'. The user's profile menu is open, showing options like 'Profile', 'Log in to CLI and API', 'Privacy', 'Change theme', and 'Log out'.

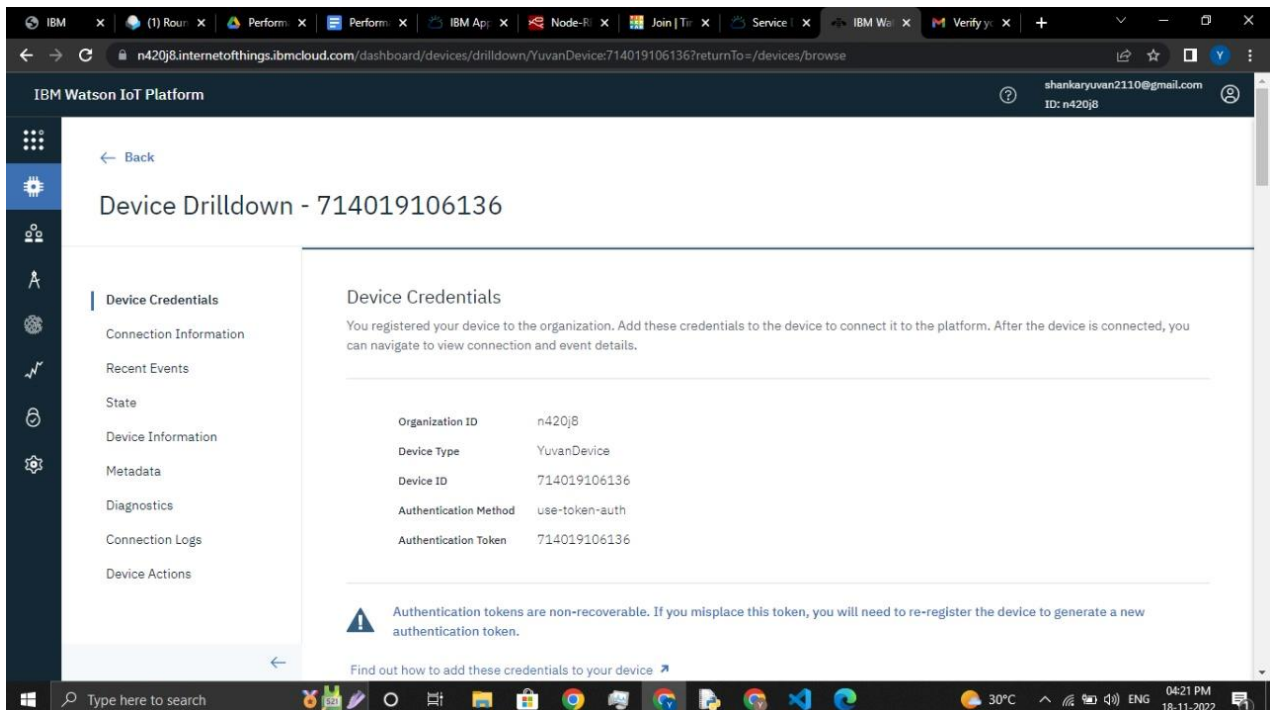
Wasim Ansari N - 714019106133



The screenshot shows the IBM Watson IoT Platform interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. The main heading is 'Browse Devices'. Below it, there are tabs for 'All Devices' and 'Diagnose'. A text block explains that the table shows a summary of all devices that have been added. Below this is a table with columns: Device ID, Status, Device Type, Class ID, and Date Added. The table contains one row with the following data: Device ID: 1234567, Status: Disconnected, Device Type: wasim, Class ID: Device, Date Added: 18 Nov 2022 10:55. The bottom of the table shows 'Items per page 50' and '1 of 1 page'.

Device ID	Status	Device Type	Class ID	Date Added
1234567	Disconnected	wasim	Device	18 Nov 2022 10:55

Yuvan Shankar N S - 714019106136



The screenshot shows the IBM Watson IoT Platform interface for a specific device. The top navigation bar includes 'Back'. The main heading is 'Device Drilldown - 714019106136'. Below it, there are tabs for 'Device Credentials', 'Connection Information', 'Recent Events', 'State', 'Device Information', 'Metadata', 'Diagnostics', 'Connection Logs', and 'Device Actions'. The 'Device Credentials' tab is selected. The content area shows the following details:

Organization ID	n420j8
Device Type	YuvanDevice
Device ID	714019106136
Authentication Method	use-token-auth
Authentication Token	714019106136

Below the table, there is a warning icon and text: 'Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the device to generate a new authentication token.'

