

Hazardous Area Monitoring For Industrial Plant Powered By IoT

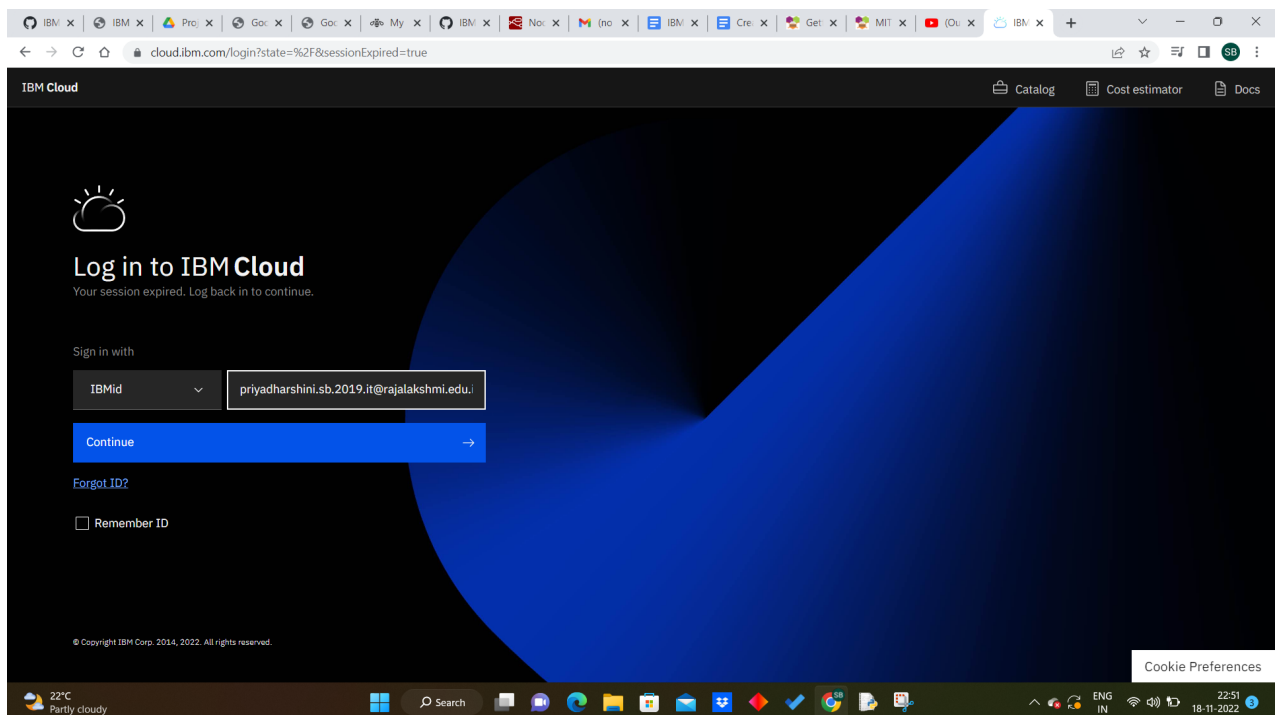
IBM NALAIYATHIRAN

Create and Configure IBM Cloud Services

Create the IBM Watson IoT Platform and a Device

TITLE	Hazardous Area Monitoring For Industrial Plant Powered By IoT
DOMAIN NAME	INTERNET OF THINGS
TEAM ID	PNT2022TMID02630

Step1: Log in your registered id



Step 2: click catalog where you find the services and Select IOT Platform.

The screenshot shows the IBM Cloud dashboard with a search bar at the top. The search results for 'Internet of Things Platform' are displayed, showing a list of services and their details. The 'Internet of Things Platform' service is highlighted, showing its description and a 'Create resource' button. The dashboard also includes a 'Build' section with various starter kits and a 'Recent support cases' section.

Step 3: click create and the launch tab get open, then click launch

The screenshot shows the 'Internet of Things Platform' service page in the IBM Cloud catalog. The 'Create' tab is selected, and the 'Lite' pricing plan is chosen. The page displays the service details, including the location (London), provider (IBM), and the 'Lite' plan features and pricing. The 'Create' button is visible at the bottom right.

Plan	Features	Pricing
Lite	Includes up to 500 registered devices, and a maximum of 200 MB of each data metric Maximum of 500 registered devices Maximum of 500 application bindings Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed	Free

Step 4: It redirect you to IBM WATSON platform where you need to click sign in

The image displays two screenshots of the IBM Watson IoT Platform dashboard, illustrating the sign-in process.

Top Screenshot (Unauthenticated State):

- The browser address bar shows the URL: `internetofthings.ibmcloud.com`.
- The page header includes the text "IBM Watson IoT Platform" and a "Sign in" button.
- The main content area features a dark blue background with a circuit-like pattern. The word "Assets" is prominently displayed in the center.
- Flanking the word "Assets" are the phrases "Collect data from" and "and make value from it".
- A "Learn More" link with a downward arrow is located at the bottom center.

Bottom Screenshot (Authenticated State):

- The browser address bar shows the URL: `internetofthings.ibmcloud.com`.
- The page header includes the text "IBM Watson IoT Platform" and a user profile dropdown menu.
- The main content area features a dark blue background with a circuit-like pattern. The word "Buildings" is prominently displayed in the center.
- Flanking the word "Buildings" are the phrases "Collect data from" and "and make value from it".
- A "Learn More" link with a downward arrow is located at the bottom center.
- The user profile dropdown menu is open, showing the user's name "priyadharshini.sb.2019.it...", the organization "ID: (select org)", and a "Sign out" button.

Step 5: where you find this tab which is used to add device, app, member, usage, and security can be worked

The top screenshot shows the IBM Watson IoT Platform 'Browse Devices' page. The page has a dark blue header with the IBM logo and user information. A sidebar on the left contains icons for various functions. The main content area has a 'Browse Devices' title and a table with columns: Device ID, Status, Device Type, Class ID, Date Added, and Descriptive Location. The table is empty, and a message states 'You don't have any devices.' with a 'Create a device.' button.

The bottom screenshot shows the 'Device Drilldown - 12345' page. The sidebar menu is expanded, showing options like Device Credentials, Connection Information, Recent Events, State, Device Information, Metadata, Diagnostics, Connection Logs, and Device Actions. The 'Device Credentials' section is active, displaying a table with the following information:

Organization ID	Device Type	Device ID	Authentication Method	Authentication Token
3lhmj	abcd	12345	use-token-auth	ZY1-xab7qEGgPm0&-7

Below the table, a warning message states: 'Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the device to generate a new authentication token.' A link 'Find out how to add these credentials to your device' is provided.

IBM Watson IoT Platform

3lhmfj.internetofthings.ibmcloud.com/dashboard/devices/browse

prtyadharshini.sb.2019.it@rajalakshmi.edu.in
ID: 3lhmfj

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.

Search by Device ID

Device Simulator

	Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
>	12345	Disconnected	abcd	Device	18 Nov 2022 23:06	

Items per page 50 | 1-1 of 1 item

1 of 1 page

0 Simulations running

22°C
Partly cloudy

Search

ENG
IN

23:08
18-11-2022

IBM Watson IoT Platform

3lhmfj.internetofthings.ibmcloud.com/dashboard/devices/browse

prtyadharshini.sb.2019.it@rajalakshmi.edu.in
ID: 3lhmfj

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Items per page 50 | 1-1 of 1 item

1 of 1 page

1 Simulation running

21°C
Partly cloudy

Search

ENG
IN

23:14
18-11-2022

IBM Watson IoT Platform

Search by Device ID

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
12345	Disconnected	abcd	Device	18 Nov 2022 23:06	

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
event_1	{"randomNumber":39,"temp":62,"hum":95}	json	a few seconds ago

Items per page 50 | 1-1 of 1 item

1 of 1 page

1 Simulation running

Step 6: check boards for risk and security overview card, it uses for graphical representation boards

IBM Watson IoT Platform

Your boards Public boards

Create New Board

RANDOM

No cards

Owned by you

RISK AND SECURITY OVERVIEW

4 Cards

Owned by you

USAGE OVERVIEW

3 Cards

Owned by you

+

Boards shared with you

1 Simulation running

