

Create And Configure IBM Cloud Services

Create IBM Watson IoT Platform And Device

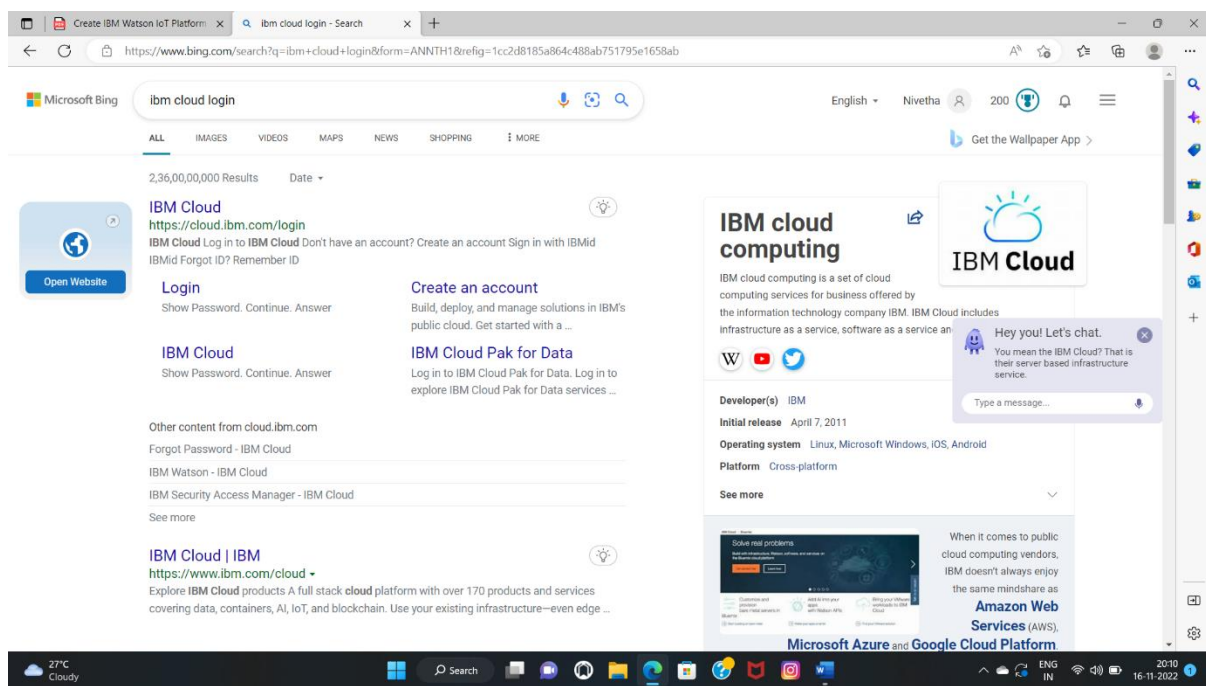
Date	16 November 2022
Team Id	PNT2022TMID34030
Project Name	IOT-Smart Waste Management For Metropolitan Cities

Create IBM Watson IoT Platform And Device:

- IBM Watson IoT platform acts as the mediator to connect the web application to IoT device, so create the IBM Watson IoT platform.
- In order to connect the IoT device to the IBM cloud, create a device in the IBM Watson IoT platform and get the device credentials.
- Configure the connection security and create API keys that are used in the Node-RED service for accessing the IBM IoT Platform.

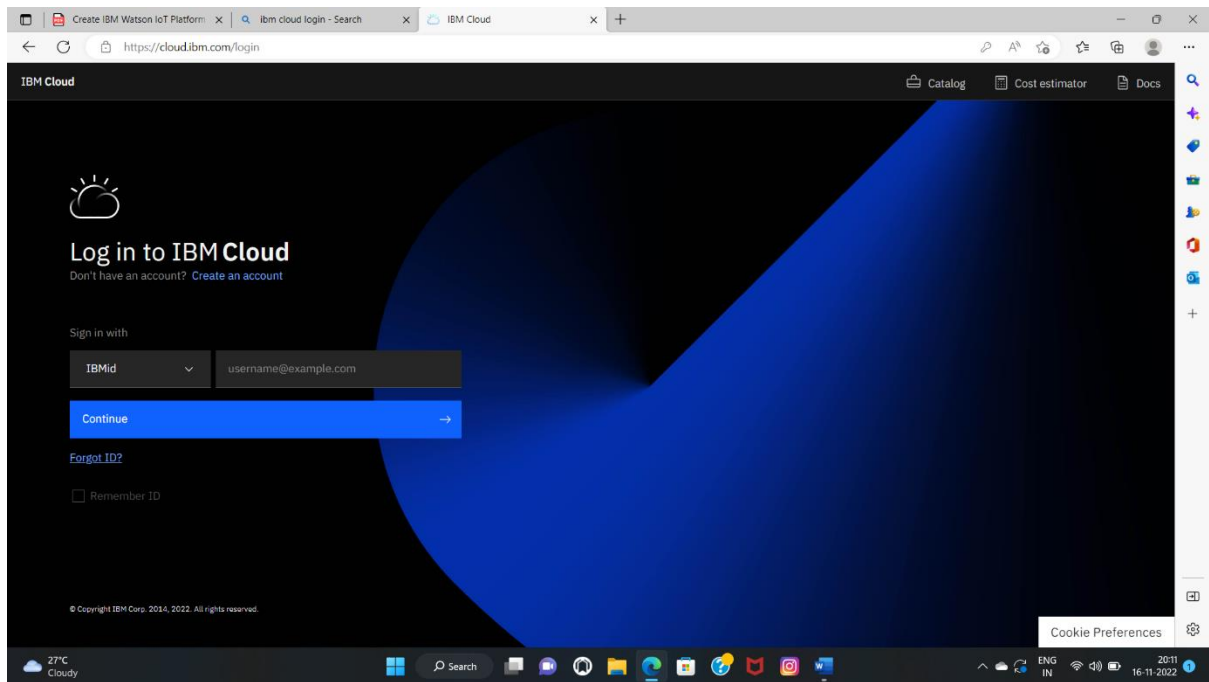
STEPS:

1.Search for IBM cloud login.

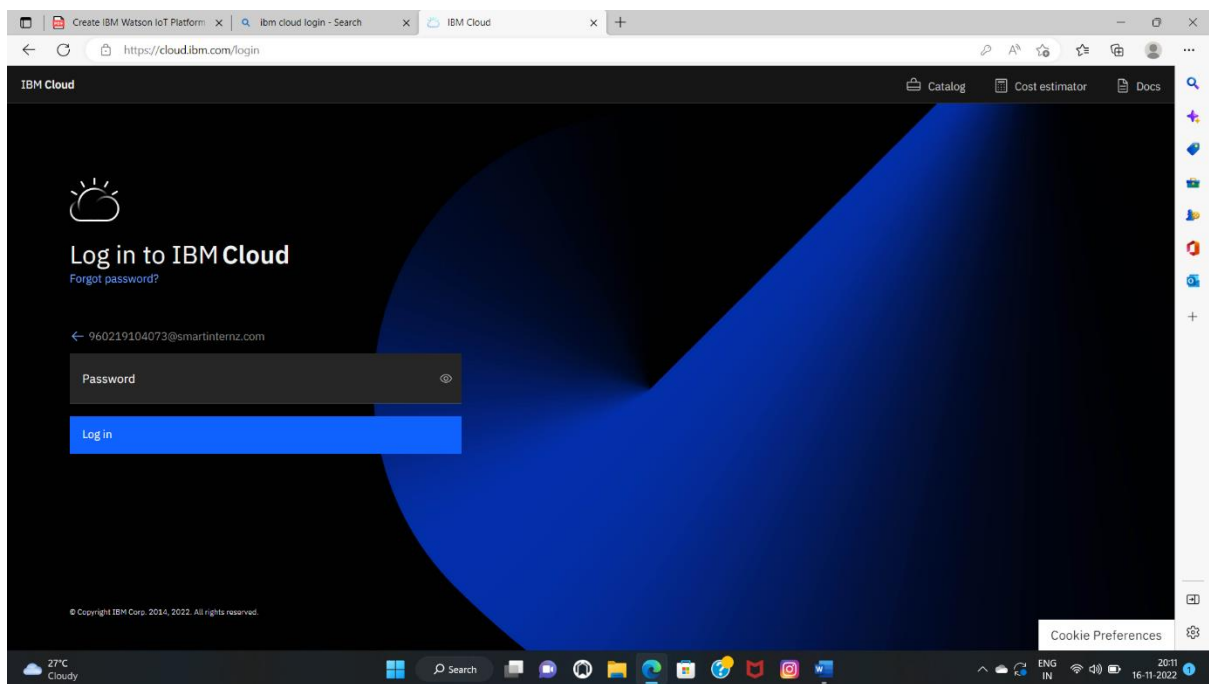


2.Click on the first link <https://cloud.ibm.com/login>

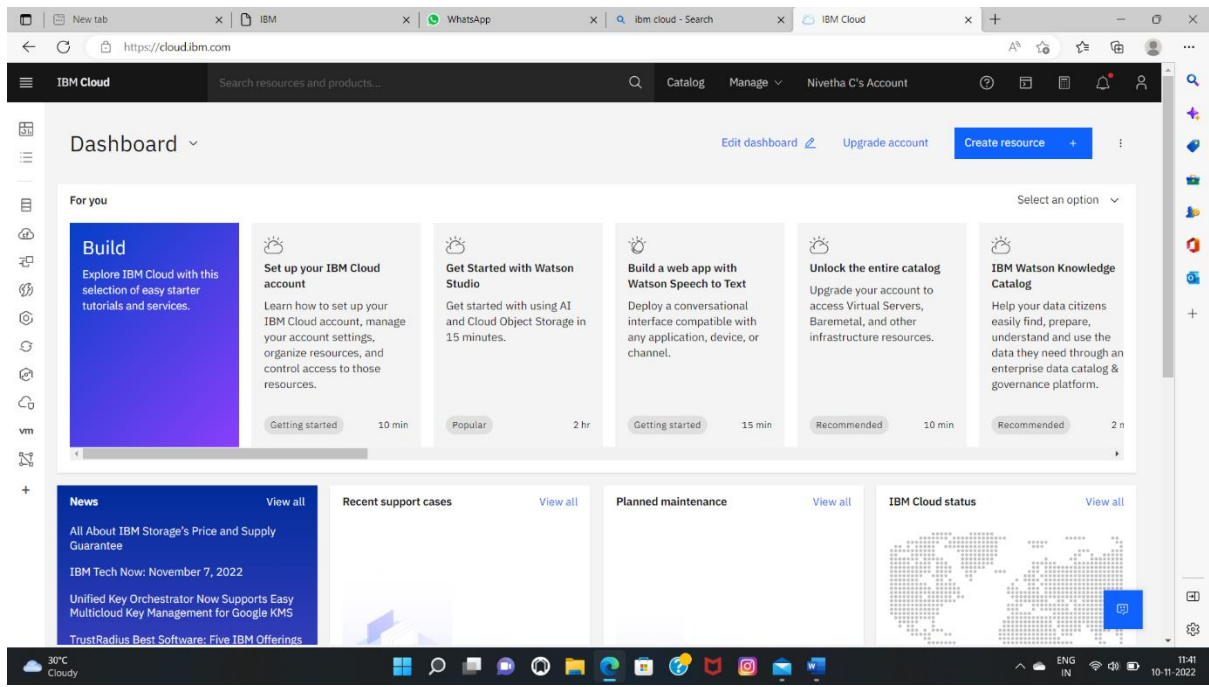
3.Give the IBMid for login



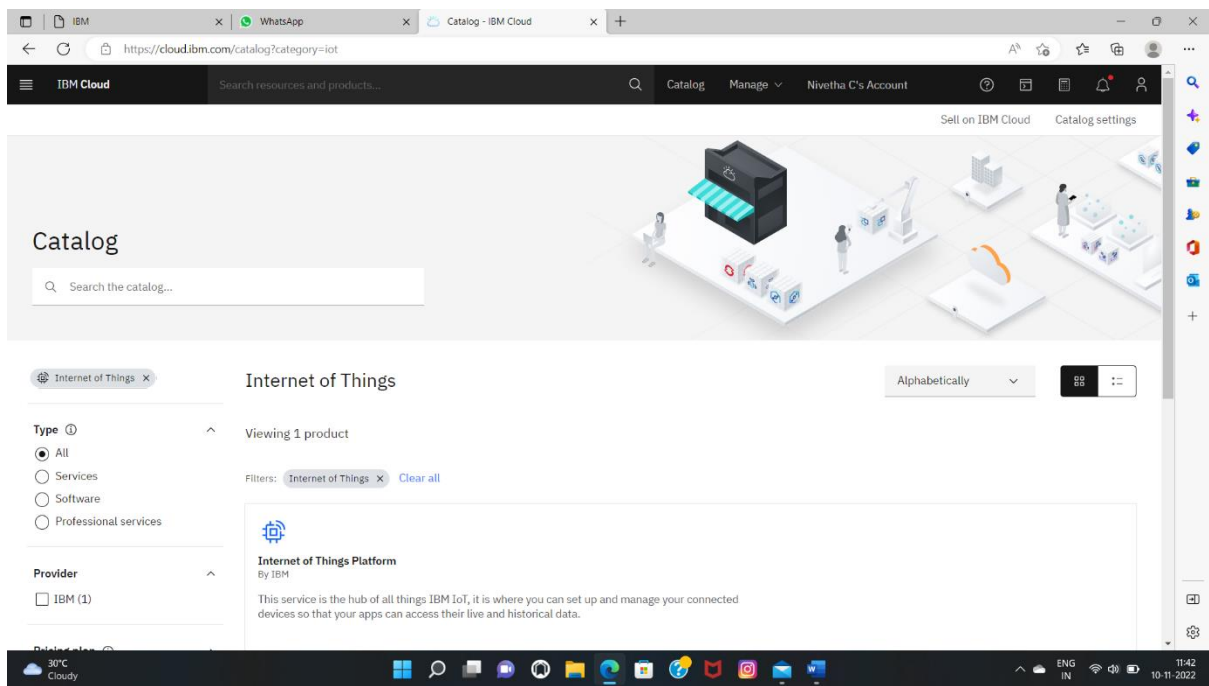
4. Enter your password



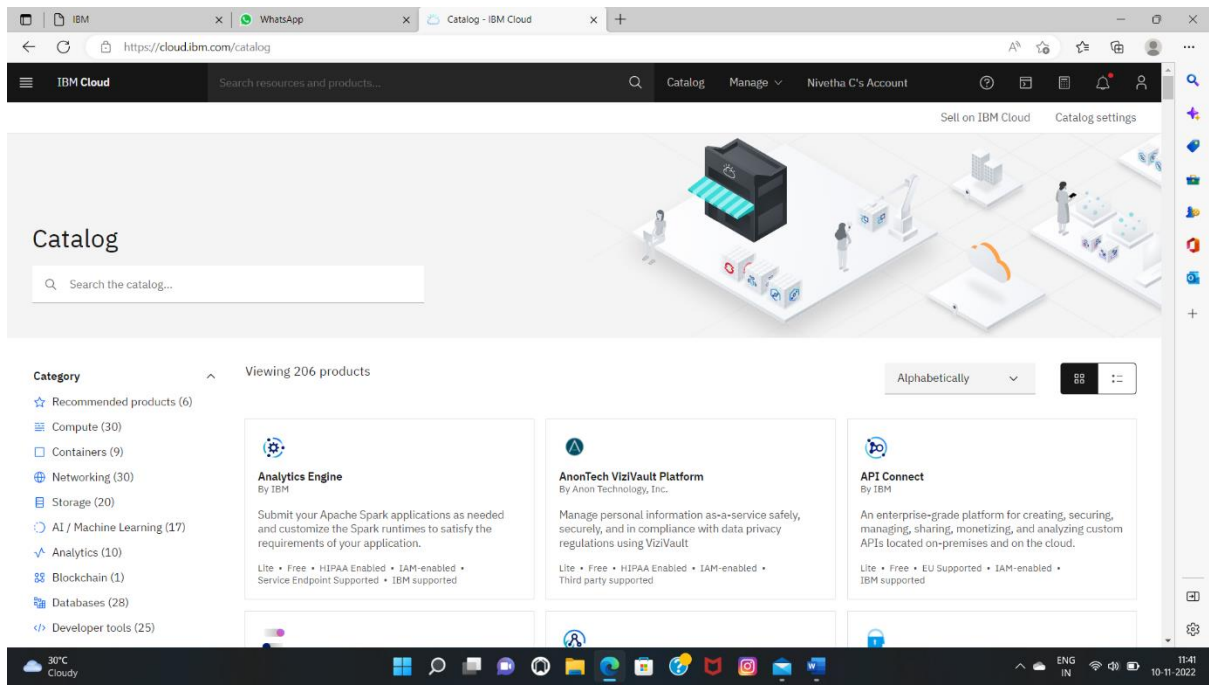
5. Dashboard will be displayed



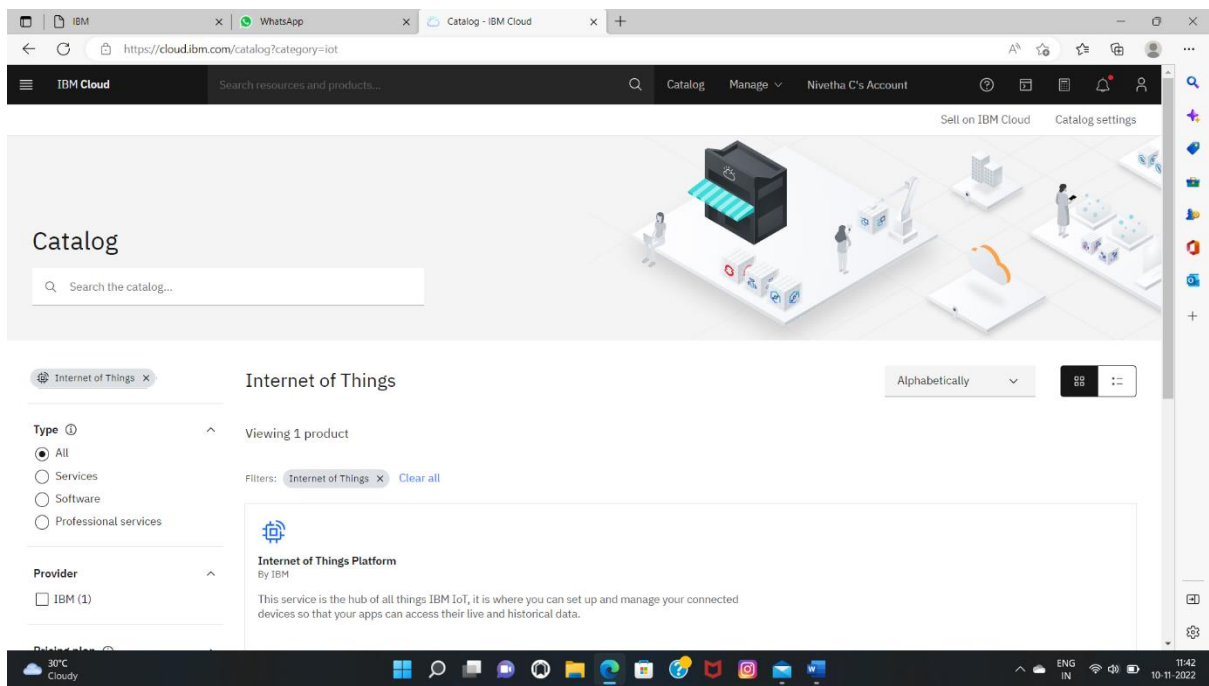
6. Select services



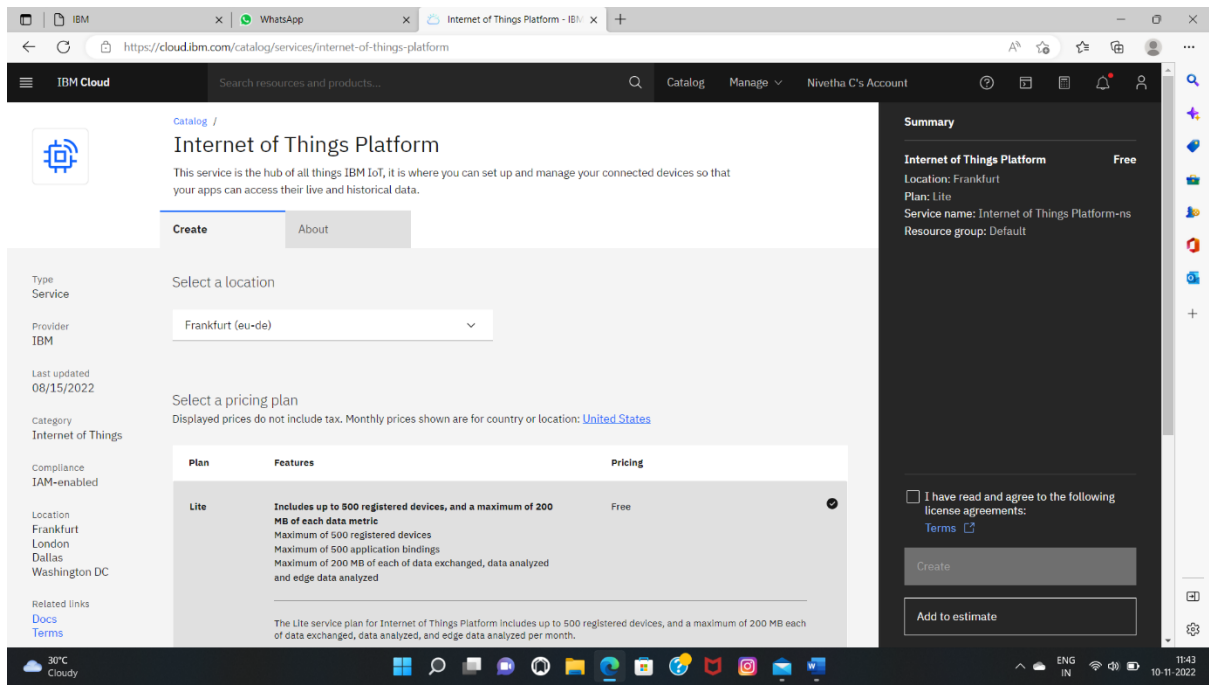
7. Select Internet of Things



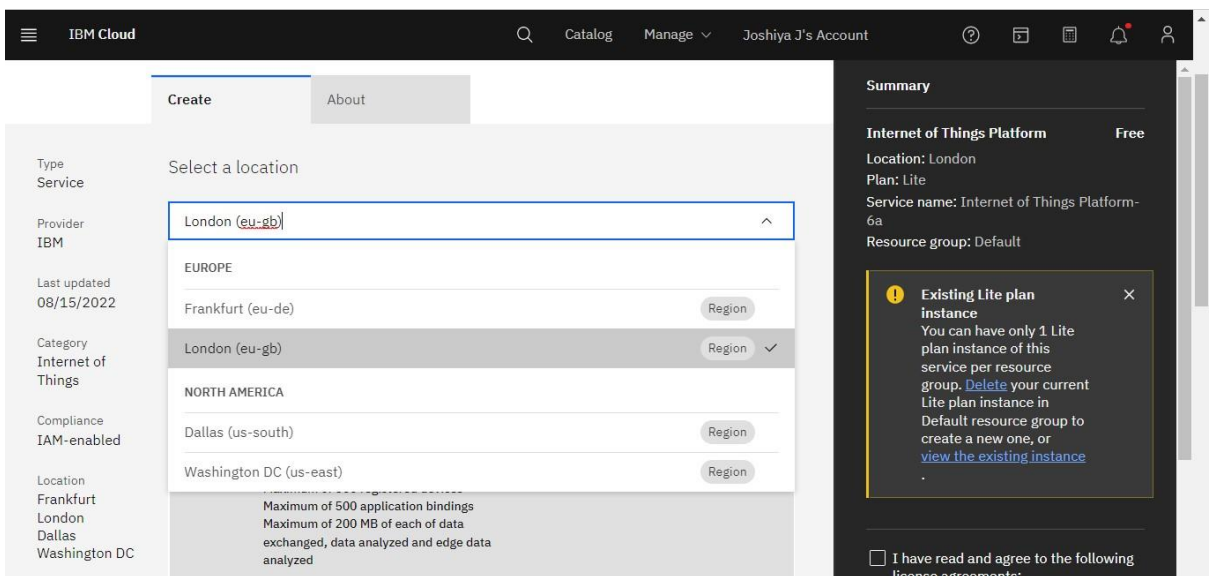
8. Click on the internet of things platform



9. The below page will be displayed.



10. Select the location london(default). Then agree to the license after reading the policy and click create.



11. Click the launch.

Internet of Things Platform-51 Active [Add tags](#) [Details](#) [Actions...](#)

Manage

- Plan
- Connections

Let's get started with IBM Watson IoT Platform

Securely connect, control, and manage devices. Quickly build IoT applications that analyze data from the physical world.

[Launch](#) [Docs](#)

Ready for the next level?

IBM Watson IoT Platform Journey

- Lite**
The Lite service plan provides a lightweight development environment to get you started with the connectivity capabilities of Watson IoT Platform.
• Free
- Non-Production**
The Non-Production service plan is a full-featured, fully-integrated offering that enables you to explore Watson IoT Platform to see how the service can fit into your IoT environment.
• Starts at \$500 per month
- Production**
The Production service is a fully managed SaaS offering that enables you to manage and analyze enterprise IoT data.
• Includes IBM Service & Support

Internet of Things Platform-51 Active [Add tags](#) [Details](#) [Actions...](#)

Manage

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Securely connect, control, and manage devices. Quickly build IoT applications that analyze data from the physical world.

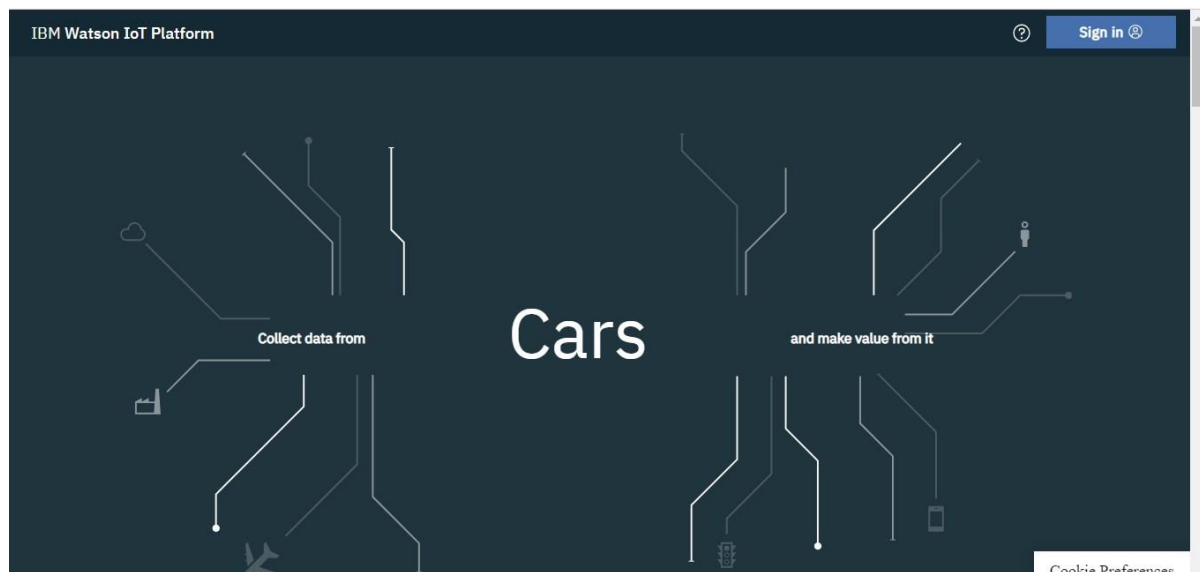
[Launch](#) [Docs](#)

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12. Click on sign in.



13. Enter the ibmid and password

The image shows the first step of the IBM login process. The header features the IBM logo on the left. The main content area is a light gray box containing the 'Log in to IBM' form. The form has a title 'Log in to IBM' and a subtitle 'Log in to IBM'. Below the title is a text input field for 'IBMid' with a 'Forgot IBMid?' link to its right. Below the input field is a checkbox labeled 'Remember me' with an information icon. Below the checkbox is a blue 'Continue' button with a right arrow. Below the button is a link 'Don't have an account? Create an IBMid'. At the bottom of the form is a link 'Need help? Contact the IBMid help desk'. The footer of the page is a dark gray bar with links 'Contact', 'Privacy', 'Terms of use', 'Accessibility', and 'Cookie preferences' on the left, and 'Powered by IBM Security Verify' on the right.The image shows the second step of the IBM login process. The header features the IBM logo on the left. The main content area is a light gray box containing the 'Log in to IBM' form. The form has a title 'Log in to IBM' and a subtitle 'Logging in as joshiyajeyaseelan24@gmail.com Not you?'. Below the subtitle is a text input field for 'Password' with a 'Forgot password?' link to its right. Below the input field is a checkbox labeled 'Remember me' with an information icon. Below the checkbox is a blue 'Log in' button with a right arrow. Below the button is a link 'Don't have an account? Create an IBMid'. At the bottom of the form is a link 'Need help? Contact the IBMid help desk'. The footer of the page is a dark gray bar with links 'Contact', 'Privacy', 'Terms of use', 'Accessibility', and 'Cookie preferences' on the left, and 'Powered by IBM Security Verify' on the right.

14. Click on create a device.

The first screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform. The wizard has four steps: Identity, Device Information, Security, and Summary. The 'Device Information' step is currently active, showing the following details:

- Device Type: SmartWasteManagement123
- Device ID: 56789
- View Metadata button
- Security Token: To be generated

At the bottom of the wizard are 'Back' and 'Finish' buttons.

The second screenshot shows the 'Device Drilldown - 56789' page. It features a left sidebar with navigation options: Device Credentials, Connection Information, Recent Events, State, Device Information, Metadata, Diagnostics, Connection Logs, and Device Actions. The main content area displays the 'Device Credentials' section, which includes a warning about non-recoverable authentication tokens and a table of device details:

Property	Value
Organization ID	5v9601
Device Type	SmartWasteManagement123
Device ID	56789
Authentication Method	use-token-auth
Authentication Token	SQinkanPu+DFmenn

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.' and a link to 'Find out how to add these credentials to your device'.

IBM Watson IoT Platform

Device Drilldown - 56789

Device Credentials

You registered your device to the organization. Add these credentials to the device to connect it to the platform. After the device is connected, you can navigate to view connection and event details.

Organization ID	5v9601
Device Type	SmartWasteManagement123
Device ID	56789
Authentication Method	use-token-auth
Authentication Token	SQinkanapPu+DFmenn

Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the device to generate a new authentication token.

Find out how to add these credentials to your device

IBM Watson IoT Platform

Device Drilldown - 56789

Connection Information

Basic connection information about this device.

Device ID	56789
Device Type	SmartWasteManagement123
Date Added	Nov 15, 2022 7:25 PM
Added By	960219104073@smartinternz.com
Connection Status	Disconnected

Recent Events

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

Event	Value	Format	Last Received
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IBM Watson IoT Platform

960219104073@smartinternz.com
ID: 5v9601

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
56789	Disconnected	SmartWasteManagement123	Device	Nov 15, 2022 7:25 PM	

Items per page 50 | 1-1 of 1 item

1 of 1 page

26°C Cloudy

IBM Watson IoT Platform

960219104073@smartinternz.com
ID: 5v9601

Browse Action Device Types Interfaces

Add Device

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
56789	Disconnected	SmartWasteManagement123	Device	Nov 15, 2022 7:25 PM	

Identity Device Information Recent Events State Logs

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	{"temperature":91,"humidity":80}	json	a few seconds ago
event_1	{"temperature":57,"humidity":43}	json	a few seconds ago

Items per page 50 | 1-1 of 1 item

1 of 1 page

1 Simulation running

26°C Partly cloudy

