

Create And Configure IBM Cloud Services

Create IBM Watson IoT Platform And Device

Date	15 October 2022
Team ID	PNT2022TMID34017
Project Name	Project - IoT Based Safety Gadget for Child Safety Monitoring and Notification

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.

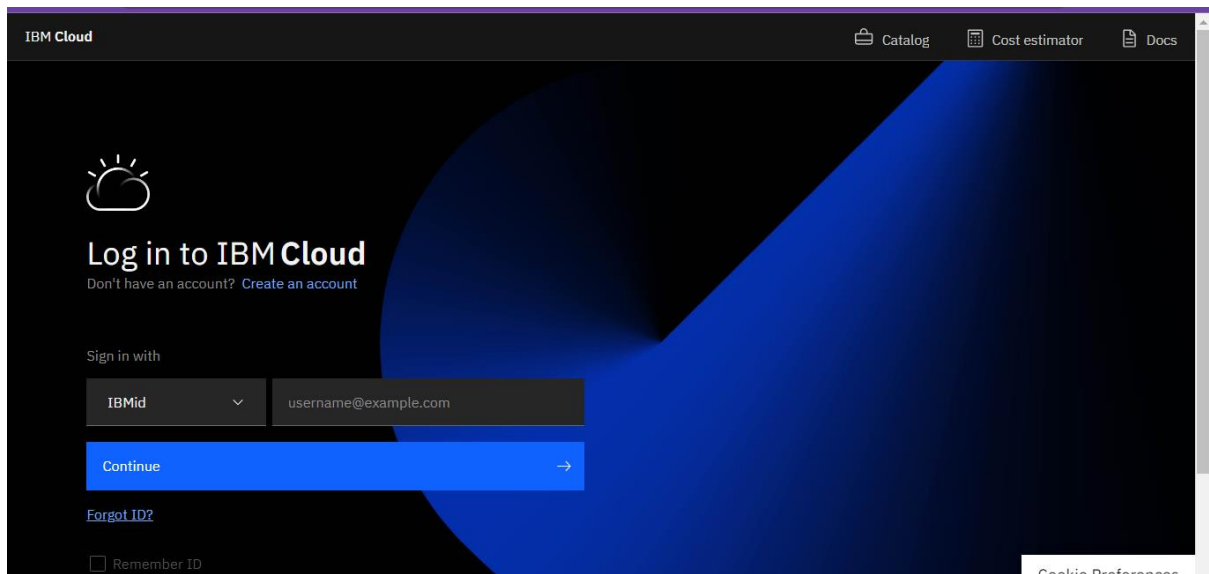
Steps:

1. Search for IBM cloud login.

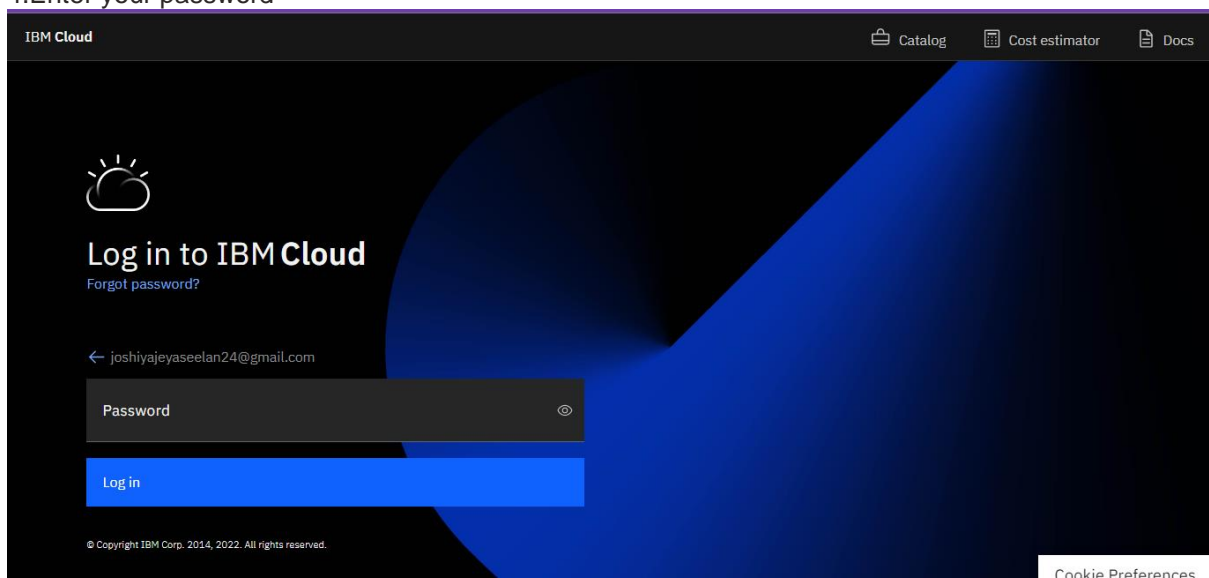
The screenshot shows a Bing search results page for the query 'ibm cloud login'. The search bar at the top shows the query and a 'Sign in' button. Below the search bar, there are tabs for 'ALL', 'IMAGES', 'VIDEOS', 'MAPS', 'NEWS', 'SHOPPING', and 'MORE'. The search results are displayed in a grid. On the left, there is a card for 'IBM Cloud' with a link to 'https://cloud.ibm.com/login' and a button 'Open Website'. To the right of this card, there are two columns of links: 'Login' (with sub-links 'Show Password', 'Continue', 'Answer') and 'Create an account' (with sub-links 'Build, deploy, and manage solutions in IBM's public cloud. Get started with a ...'). Below these links, there is a section titled 'IBM Cloud Pak for Data' with a link to 'Log in to IBM Cloud Pak for Data. Log in to explore ...'. On the right side of the search results, there is a large card for 'IBM cloud computing' with a description: 'IBM cloud computing is a set of cloud computing services for business offered by the information technology company IBM. IBM Cloud includes infrastructure as a service, software as a service and platf...'. Below this card, there is a section titled 'Developer(s) IBM' with details: 'Initial release April 7, 2011', 'Operating system Linux, Microsoft Wi...', 'Platform Cross-platform', 'Type Web service, cloud computing', and 'License Closed source for platform, O...'. At the bottom of the search results, there is a section titled 'Other content from cloud.ibm.com' with links to 'Forgot Password - IBM Cloud', 'IBM Watson - IBM Cloud', and 'IBM Security Access Manager - IBM Cloud'. A 'See more' link is also present.

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

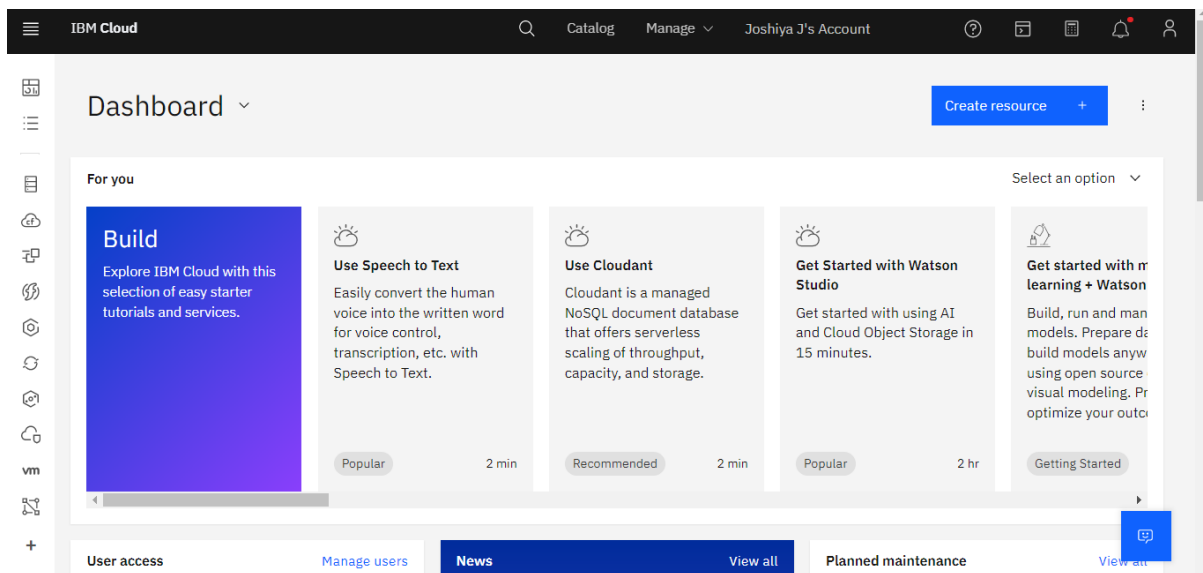
3. Give the IBMid for login



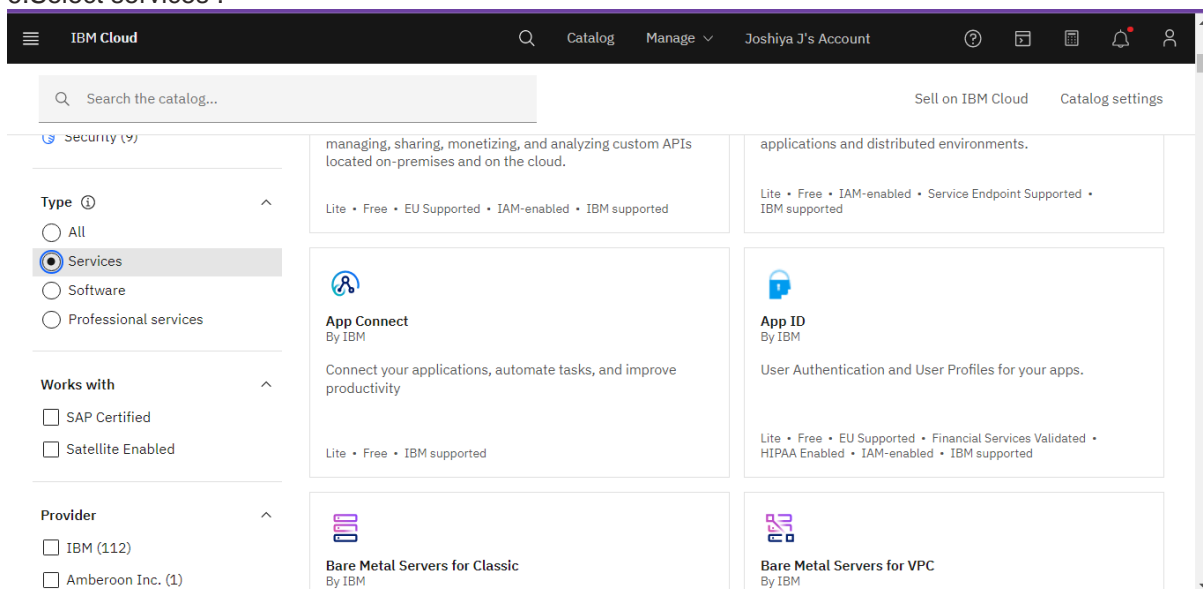
4. Enter your password



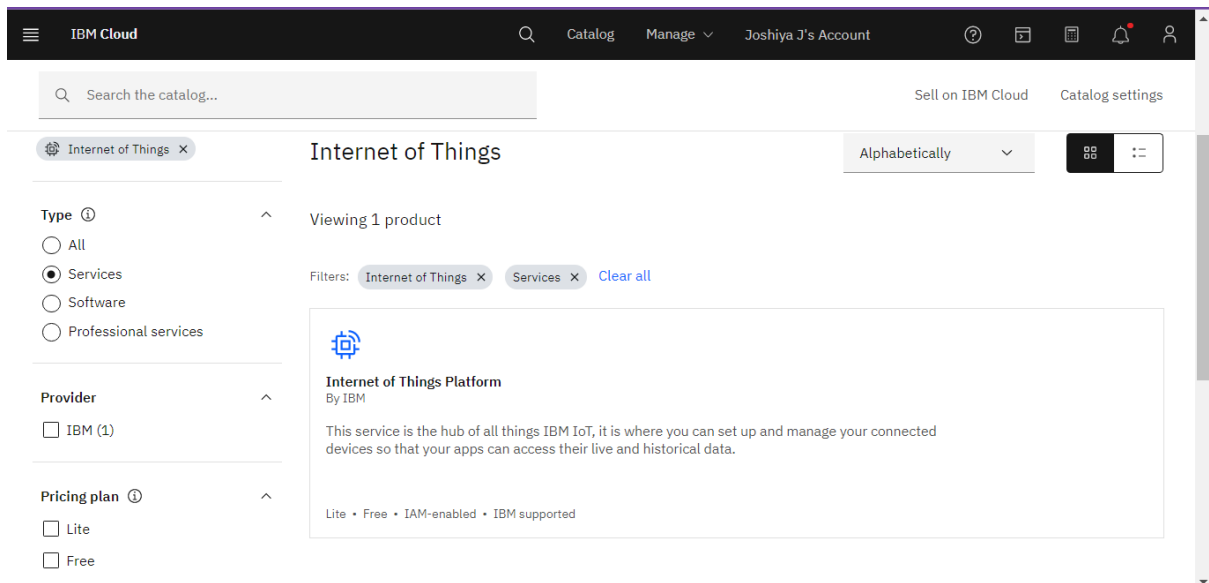
5. Dashboard will be displayed



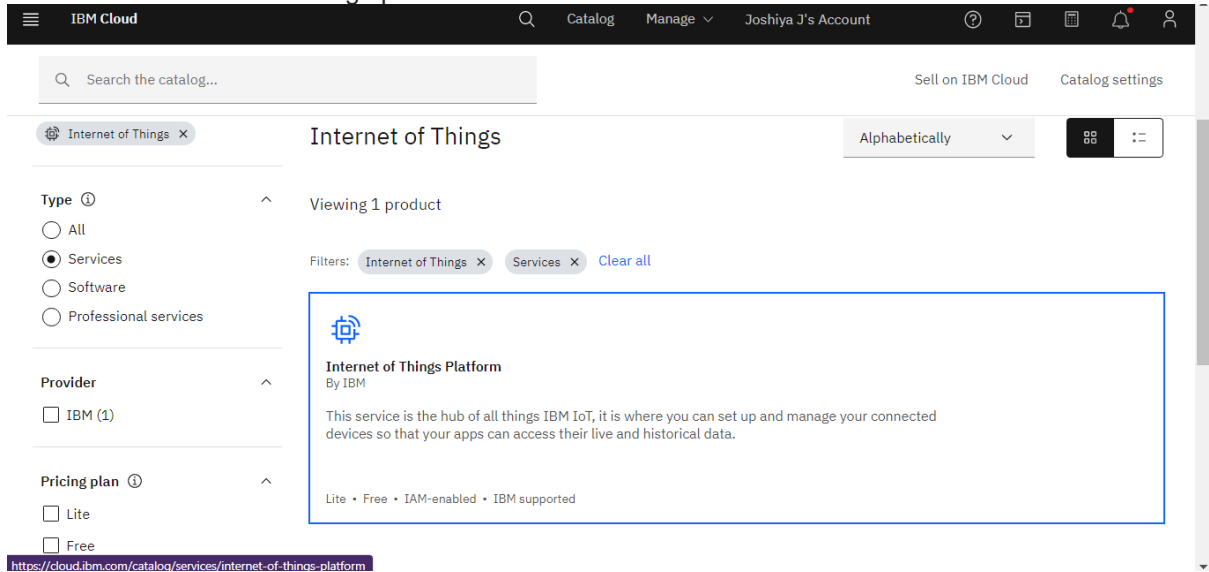
6. Select services .



7. Select Internet of Things



8. Click on the internet of things platform.



9. The below page will be displayed.

Internet of Things Platform

This service is the hub of all things IBM IoT, it is where you can set up and manage your connected devices so that your apps can access their live and historical data.

Create | About

Type Service: Select a location

Provider: IBM

Last updated: 08/15/2022

Category: Internet of Things

Compliance: IAM-enabled

Location: Frankfurt (eu-de)

Select a pricing plan

Displayed prices do not include tax. Monthly prices shown are for country or location: [United States](#)

Plan	Features	Pricing
Lite	Includes up to 500 registered devices, and	Free

Summary

Internet of Things Platform **Free**

Location: Frankfurt

Plan: Lite

Service name: Internet of Things Platform-s3

Resource group: Default

☐ I have read and agree to the following license agreements: [Terms](#)

Create

Add to estimate

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

Internet of Things Platform

This service is the hub of all things IBM IoT, it is where you can set up and manage your connected devices so that your apps can access their live and historical data.

Create | About

Type Service: Select a location

Provider: IBM

Last updated: 08/15/2022

Category: Internet of Things

Compliance: IAM-enabled

Location: London (eu-gb)

Select a pricing plan

Displayed prices do not include tax. Monthly prices shown are for country or location: [United States](#)

Plan	Features	Pricing
Lite	Includes up to 500 registered devices, and	Free

Summary

Internet of Things Platform **Free**

Location: London

Plan: Lite

Service name: Internet of Things Platform-6a

Resource group: Default

☐ I have read and agree to the following license agreements: [Terms](#)

Create

Add to estimate

11. Click the launch.

IBM Cloud

Resource list / Internet of Things Platform-0i 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**

☐ **Non-Production**

☐ **Production**

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
- 200 MB data-transfer limit
- 500 application bindings limit
- 500 registered devices limit

☐ **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
- Capacity limit based on device type
- Optional Analytics Service and Blockchain Service add-ons

☐ **Production**

12. Click on sign in.

IBM Watson IoT Platform [Sign in](#)

Collect data from **Cars** and make value from it

[Cookie Preferences](#)

13 Enter the ibmid and password



Log in to IBM

IBMid [Forgot IBMid?](#)

☒ Remember me ⓘ

Continue →

Don't have an account? [Create an IBMid](#)

Need help? [Contact the IBMid help desk](#)

Contact Privacy Terms of use Accessibility Cookie preferences

Powered by IBM Security Verify



Log in to IBM

Logging in as joshiyajeyaseelan24@gmail.com [Not you?](#)

Password [Forgot password?](#)

☒ Remember me ⓘ

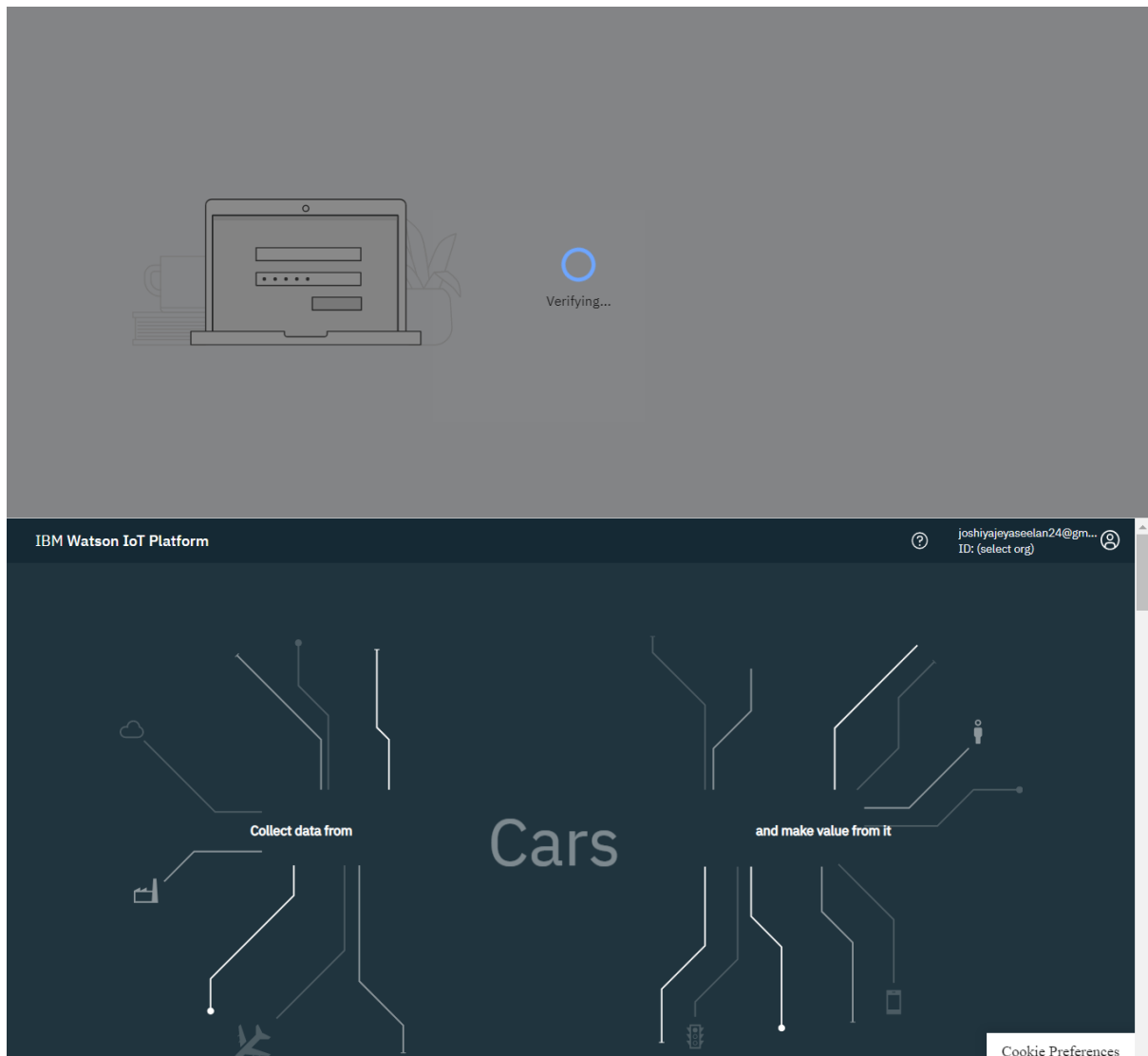
Log in →

Don't have an account? [Create an IBMid](#)

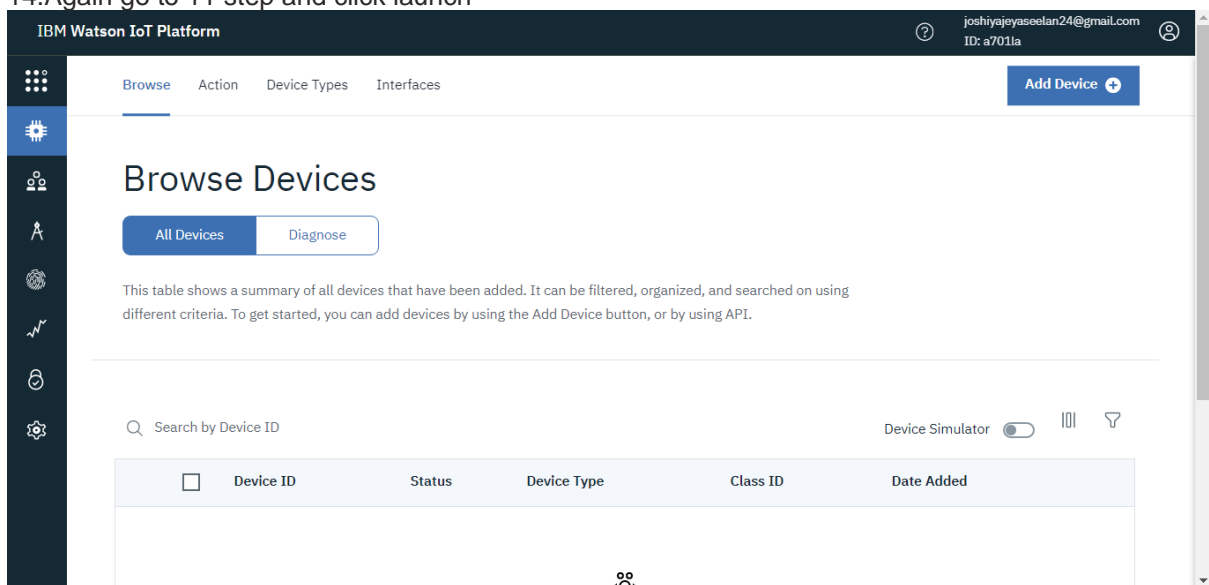
Need help? [Contact the IBMid help desk](#)

Contact Privacy Terms of use Accessibility Cookie preferences

Powered by IBM Security Verify



14. Again go to 11 step and click launch



15. Click on create a device.

IBM Watson IoT Platform

joshiyajeyaseelan24@gmail.com
ID: a7011a

Browse

Action

Device Types

Interfaces

Add Device +

Search by Device ID

Device Simulator ☐

III

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added
<div><div></div><div>You don't have any devices.</div><div>Create a device.</div></div>					

IBM Watson IoT Platform

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Browse

Action

Device Types

Interfaces

Add Device +

Add Device

Identity

Device Information

Security

Summary

Select a device type for the device that you are adding and give the device a unique ID.

Device Type

Select or create a device type...

Device ID

Enter Device ID

Cancel

Next

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Browse

Action

Device Types

Interfaces

Add Device +

Add Device

Identity

Device Information

Security

Summary

Select a device type for the device that you are adding and give the device a unique ID.

Device Type

ESP32

Device ID

01

Cancel

Next

IBM Watson IoT Platform

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Browse

Action

Device Types

Interfaces

ESP32

Device ID
01

View Metadata

Security Token
To be generated

Back

Finish

Browse Devices

All Devices

Diagnose

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← Back

Device Drilldown - 01

Device Credentials

Connection Information

Recent Events

State

Device Information

Metadata

Diagnostics

Connection Logs

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

a7011a

Device Type

ESP32

Device ID

01

Authentication Method

use-token-auth

Authentication Token

CsxKq?qmHJ8GnyRhYy

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

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← Back

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IBM Watson IoT Platform

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ID: a7011a

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

IOI

	Device ID	Status	Device Type	Class ID	Date Added
>	01	Disconnected	ESP32	Device	Nov 3, 2022 7:19 PM

Items per page50 | 1-1 of 1 item1 of 1 page<1>

16. The device is created

IBM Watson IoT Platform

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ID: a7011a

Browse

Action

Device Types

Interfaces

Add Device

Search by Device ID

Device Simulator

UI

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	Device ID	Status	Device Type	Class ID	Date Added	
	01	Disconnected	ESP32	Device	Nov 3, 2022 7:19 PM	→ ...

Identity

Device Information

Recent Events

State

Logs

Device ID

01

Device Type

ESP32

Date Added

Nov 3, 2022 7:19 PM

Added By

joshiyajeyaseelan24@gmail.com

Connection Status

Disconnected

Items per page 50 | 1-1 of 1 item

1 of 1 page

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1

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