

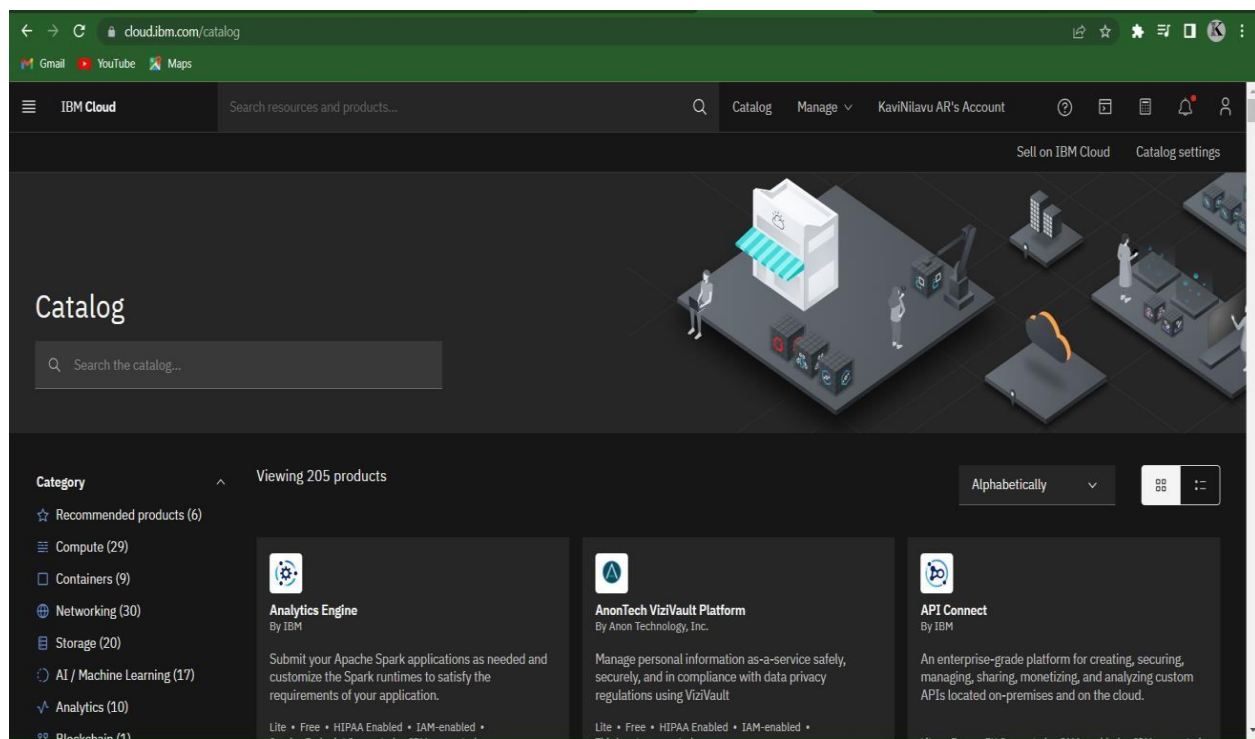
**TEAM ID:** PNT2022TMID21627

**PROJECT NAME:** Smart Waste Management System For Metropolitan Cities

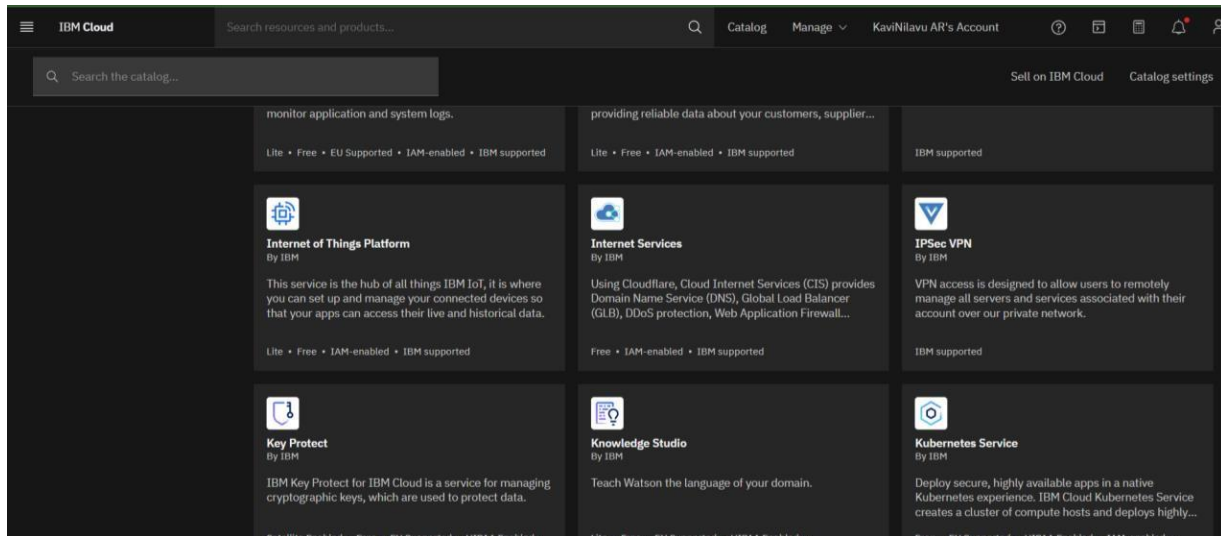
**AIM:** To create the IBM Watson IOT platform and device

**STEPS:**

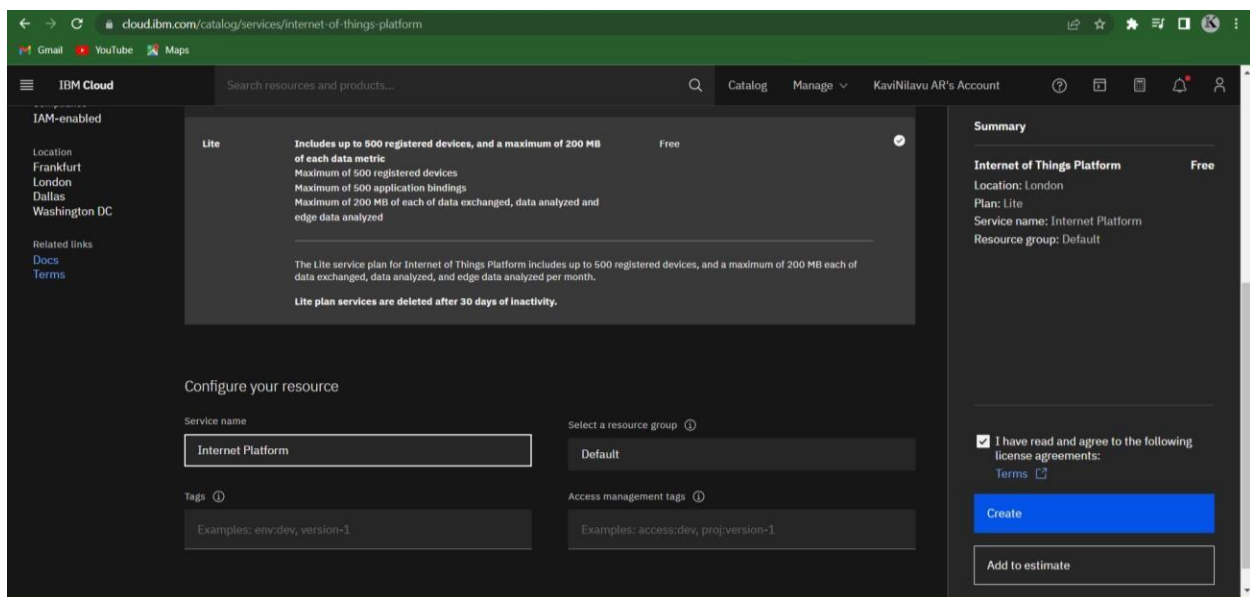
1. Firstly create an IBM cloud account with IBMid and password
2. Home page of IBM cloud.
3. Click on the catalog on the top.



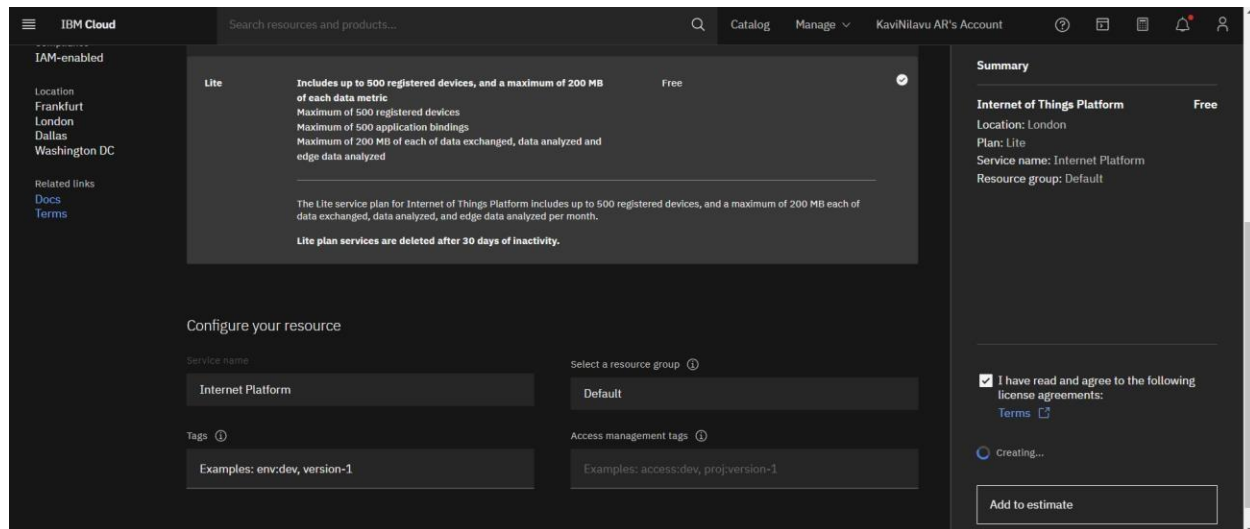
4. Click on IOT in the category mentioned



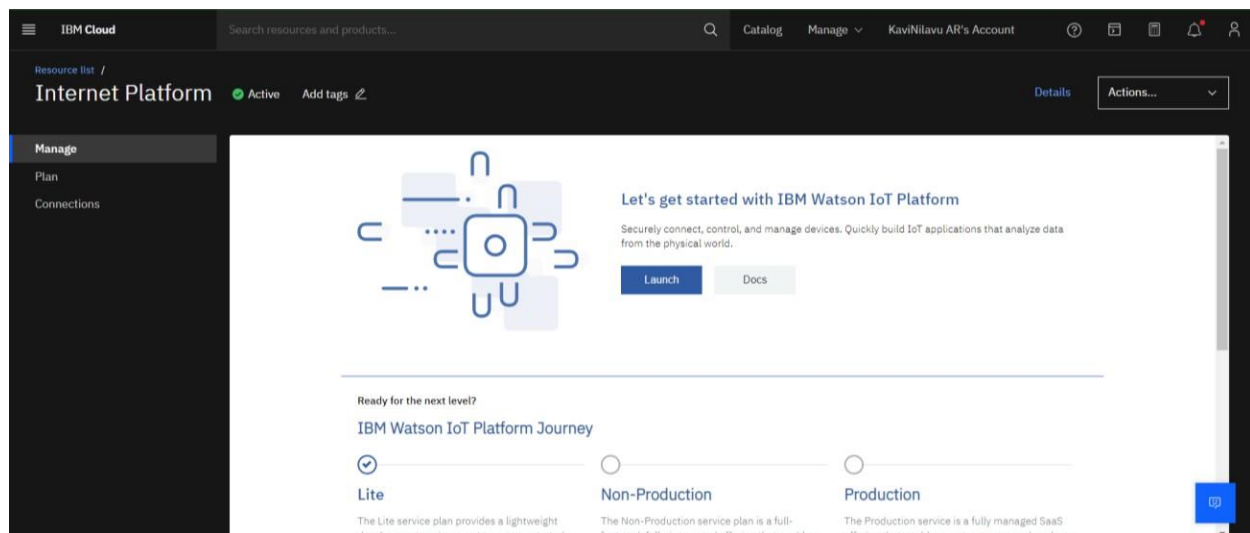
5. If already a lite is present delete it else u can't create another



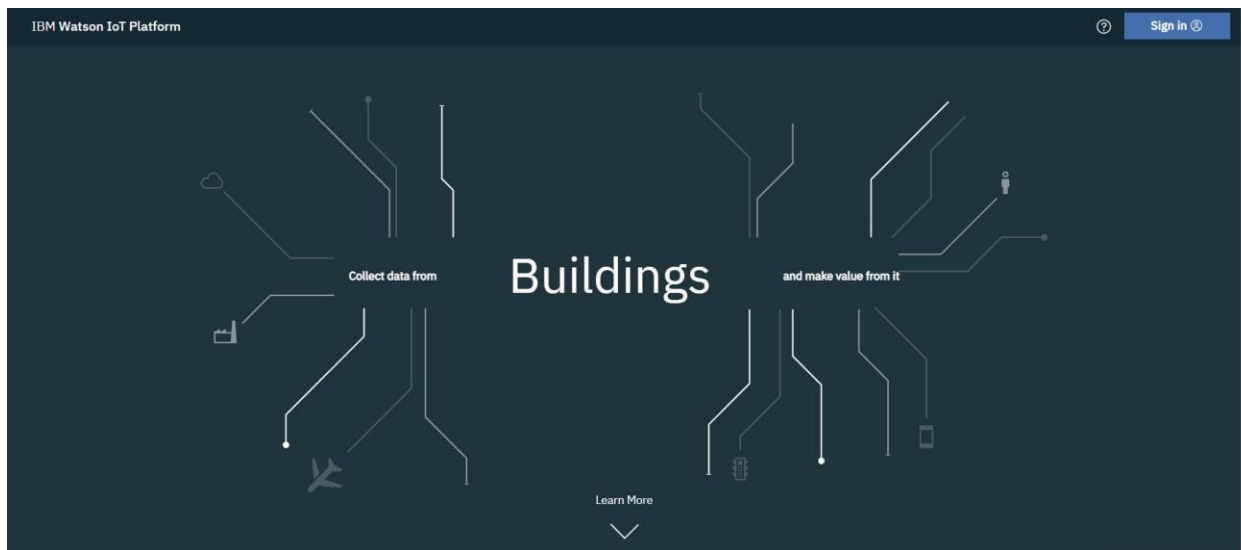
6. After providing the service name. Click on “CREATE”.



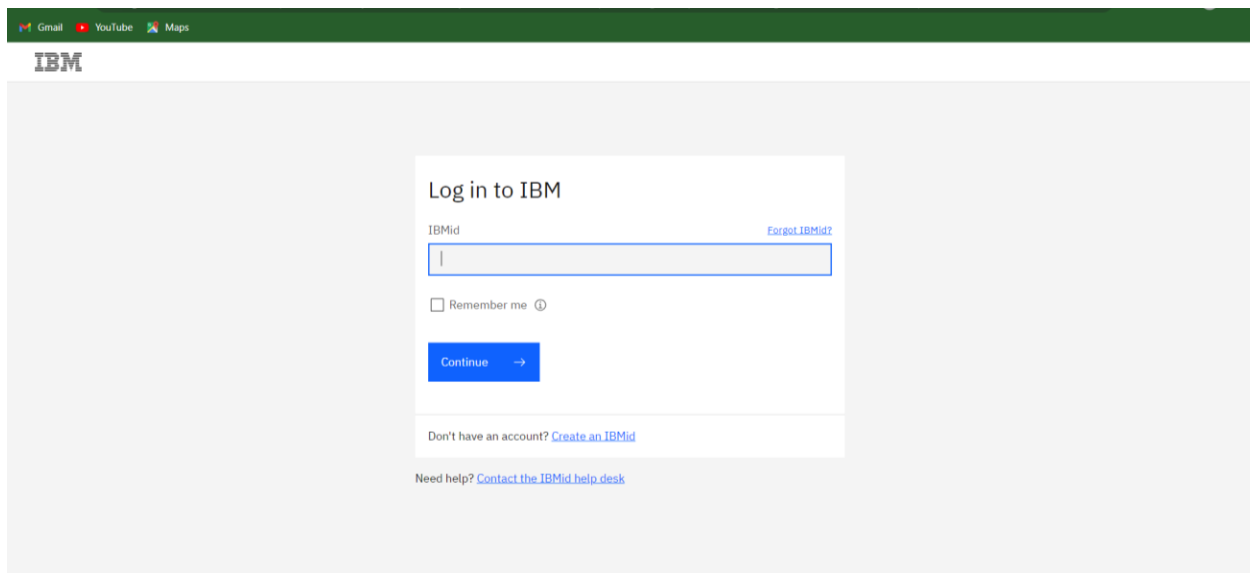
7. Internet of Things Platform Child safety will be created, where there are different options like manage, plan, and connection ( manage is for launch, Plan gives us the idea about the payment package and its upgrades, and lastly the connection is for to connect IOT with other services)



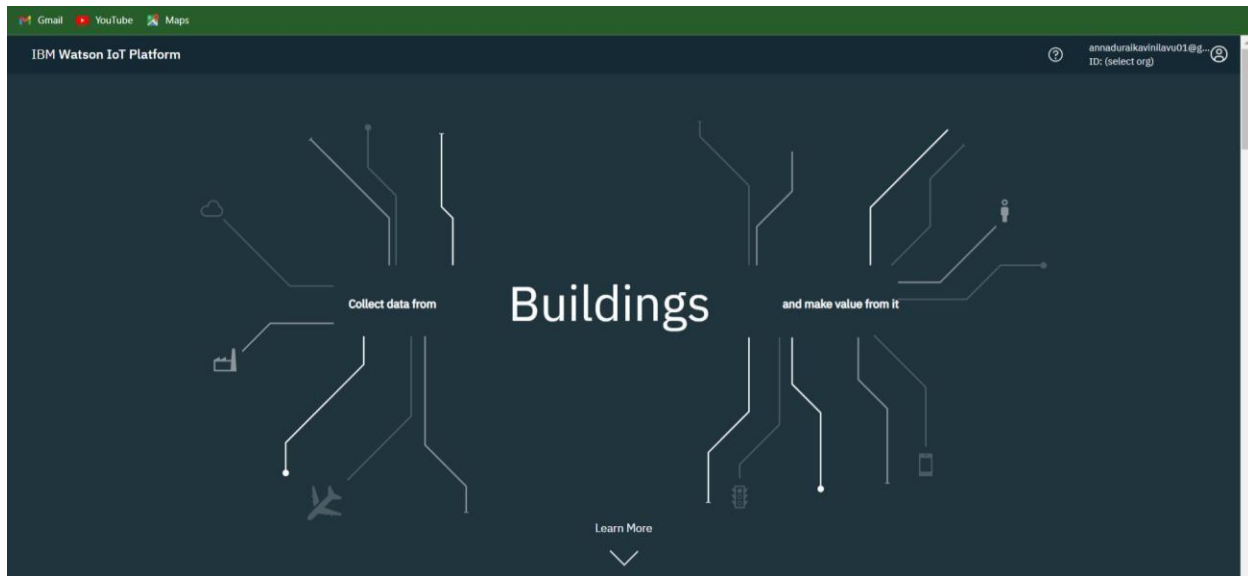
8. Clicking on the launch button in the manage tab, it will open to this



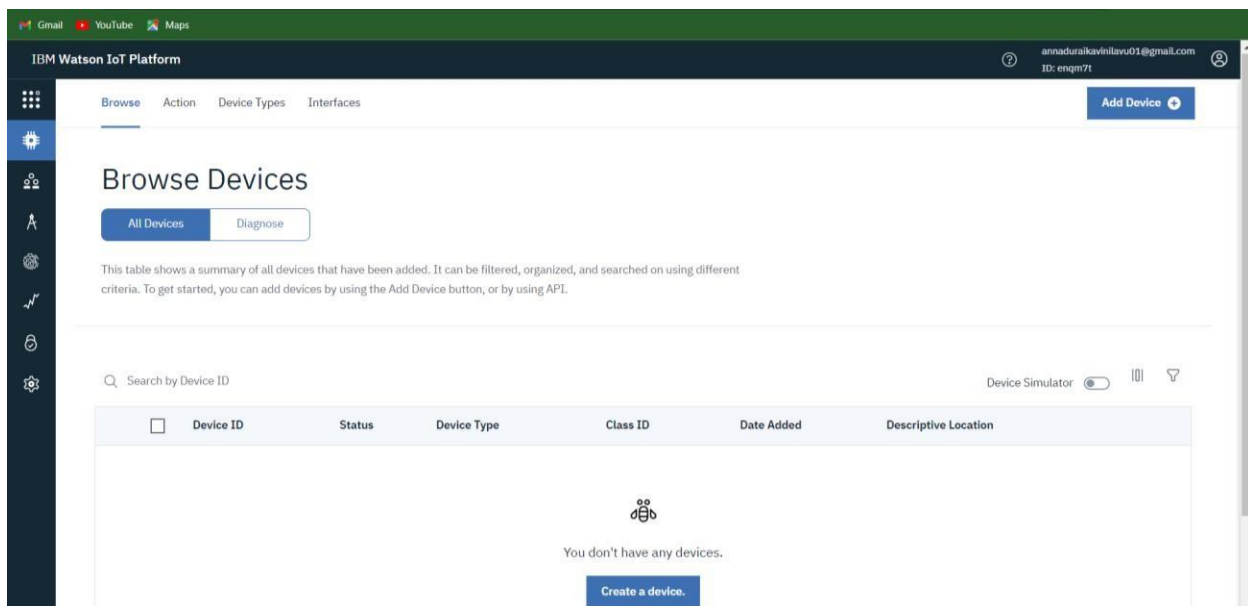
9. Enter the details to sign in to the Watson Cloud to create a device



10. Once logged in the name will be displayed and it goes back to the first page



11. And again clicking on the launch button will open this tab, the device will help in the creation of the devices, the addition of devices, and the display of details of the devices.



12. Go to devices in the general settings.

13. Click on create a device.

14. In a device type, provide a device that we going to do.

The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform. The wizard has four steps: Identity, Device Information, Security, and Summary. The 'Identity' step is currently active, indicated by a blue circle and a checkmark. Below the step indicator, there is a text prompt: 'Select a device type for the device that you are adding and give the device a unique ID.' There are two input fields: 'Device Type' with the value 'NodeRed' and 'Device ID' with the value '123456'. At the bottom right of the wizard, there are 'Cancel' and 'Next' buttons. Below the wizard, there is a 'Browse Devices' section with 'All Devices' and 'Diagnose' buttons.

IBM Watson IoT Platform

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Browse Action Device Types Interfaces

### 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 NodeRed

Device ID 123456

Cancel Next

### Browse Devices

All Devices Diagnose

15. In a device, device information, security and summary all are optional.

The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform, specifically the 'Device Information' step. The 'Identity' step is completed, indicated by a checkmark. The 'Device Information' step is active, indicated by a blue circle. Below the step indicator, there is a text prompt: 'You can modify the default device information and enter more information about the device for identification purposes.' There are two columns of input fields. The left column contains: 'Serial Number' (Enter Serial Number), 'Model' (Enter Model), 'Description' (Enter Description), and 'Hardware Version' (Enter Hardware Version). The right column contains: 'Manufacturer' (Enter Manufacturer), 'Device Class' (Enter Device Class), 'Firmware Version' (Enter Firmware Version), and 'Descriptive Location' (Enter Descriptive Location). At the bottom left of the wizard, there is an 'Add Metadata' button with a plus icon. At the bottom right, there are 'Back' and 'Next' buttons.

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Browse Action Device Types Interfaces

### Add Device

Identity Device Information Security Summary

You can modify the default device information and enter more information about the device for identification purposes.

Serial Number Enter Serial Number

Model Enter Model

Description Enter Description

Hardware Version Enter Hardware Version

Manufacturer Enter Manufacturer

Device Class Enter Device Class

Firmware Version Enter Firmware Version

Descriptive Location Enter Descriptive Location

Add Metadata +

Back Next

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Browse Action Device Types Interfaces

Identity Device Information Security Summary

There are two options for selecting a device authentication token.

**Auto-generated authentication token (default)**

Allow the service to generate an authentication token for you. Tokens are 18 characters and contain a mix of alphanumeric characters and symbols. The token is returned to you at the end of the device registration process.

**Self-provided authentication token**

Provide your own authentication token for this device. The token must be between 8 and 36 characters and contain a mix of lowercase and uppercase letters, numbers, and symbols, which can include hyphens, underscores, and periods. Do not use repeated characters, dictionary words, user names, or other predefined sequences.

Authentication Token:

Make a note of the generated token. Lost authentication tokens cannot be recovered. Tokens are encrypted before being stored. Authentication tokens are encrypted before we store them.

Back Next

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Browse Action Device Types Interfaces

Add Device

Identity Device Information Security Summary

Verify that the following information is correct then select Finish

Device Type  
NodeRed

Device ID  
123456

[View Metadata](#)

Security Token  
To be generated

Back Finish

16. Device credential are one time created. So password should be saved.

IBM Watson IoT Platform

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← Back

Device Drilldown - 123456

Device Credentials

Connection Information

Recent Events

State

Device Information

Metadata

Diagnostics

Connection Logs

Device Actions

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

enqm7i

Device Type

NodeRed

Device ID

123456

Authentication Method

use-token-auth

Authentication Token

M@+O59Rv6f@PzdEcTJ

⚠ 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

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Browse

Action

Device Types

Interfaces

Add Device +

Search by Device ID

Device Simulator ☐

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
123456	Disconnected	NodeRed	Device	Nov 4, 2022 8:21 PM	

Identity

Device Information

Recent Events

State

Logs

Device ID

123456

Device Type

NodeRed

Date Added

Nov 4, 2022 8:21 PM

Added By

annaduraiavinilavu01@gmail.com

Connection Status

Disconnected

Items per page 50 | 1-1 of 1 item

1 of 1 page