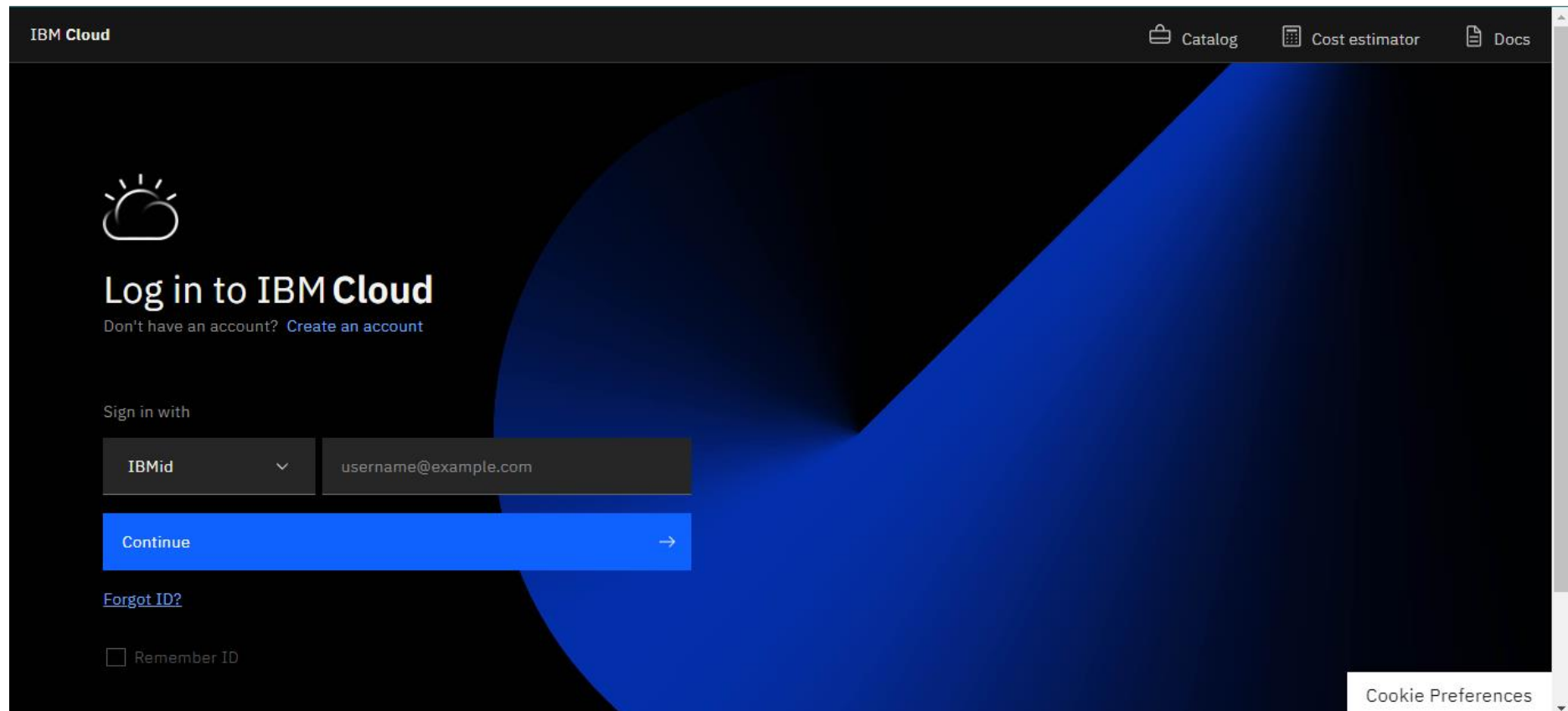


## **Create The IBM Watson IoT Platform And A Device**

<b>Project Title</b>	SmartFarmer – IoT Enabled Smart Farming Application
<b>Team ID</b>	PNT2022TMID28579
<b>Content</b>	IBM Cloud and Device Creation

## STEP 1:


Login into your IBM Cloud.



The screenshot shows the IBM Cloud login interface. At the top, a dark navigation bar contains the 'IBM Cloud' logo on the left and links for 'Catalog', 'Cost estimator', and 'Docs' on the right. The main content area has a dark background with a large blue abstract shape. On the left, there is a cloud icon with sun rays, followed by the text 'Log in to IBM Cloud'. Below this, a link says 'Don't have an account? [Create an account](#)'. The 'Sign in with' section features a dropdown menu set to 'IBMid' and a text input field containing 'username@example.com'. A prominent blue 'Continue' button with a right-pointing arrow is positioned below the input field. Further down, there is a link for 'Forgot ID?' and a checkbox labeled 'Remember ID'. In the bottom right corner, a 'Cookie Preferences' link is visible.

IBM Cloud

Catalog Cost estimator Docs



**Log in to IBM Cloud**

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

Sign in with

IBMid

[Continue](#) →

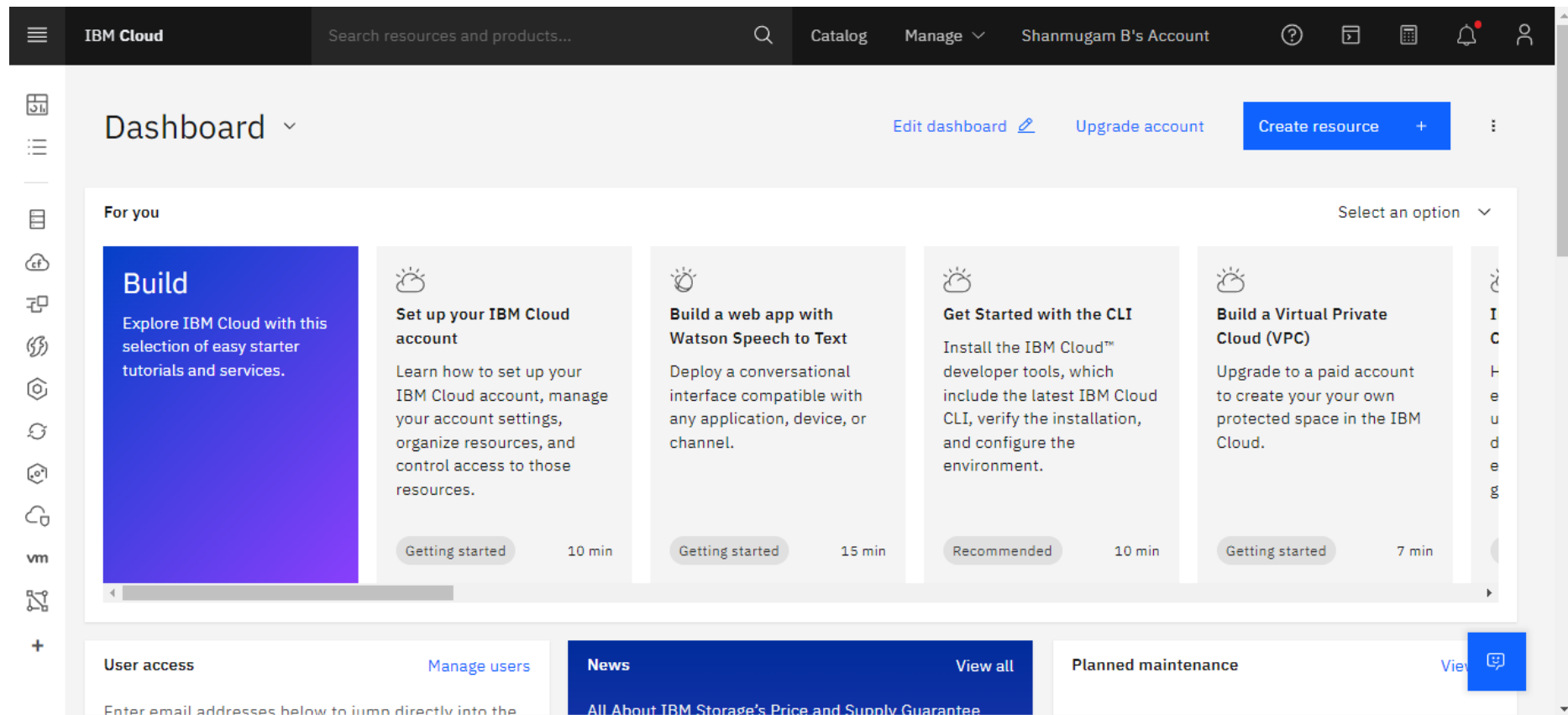
[Forgot ID?](#)

☐ Remember ID

[Cookie Preferences](#)

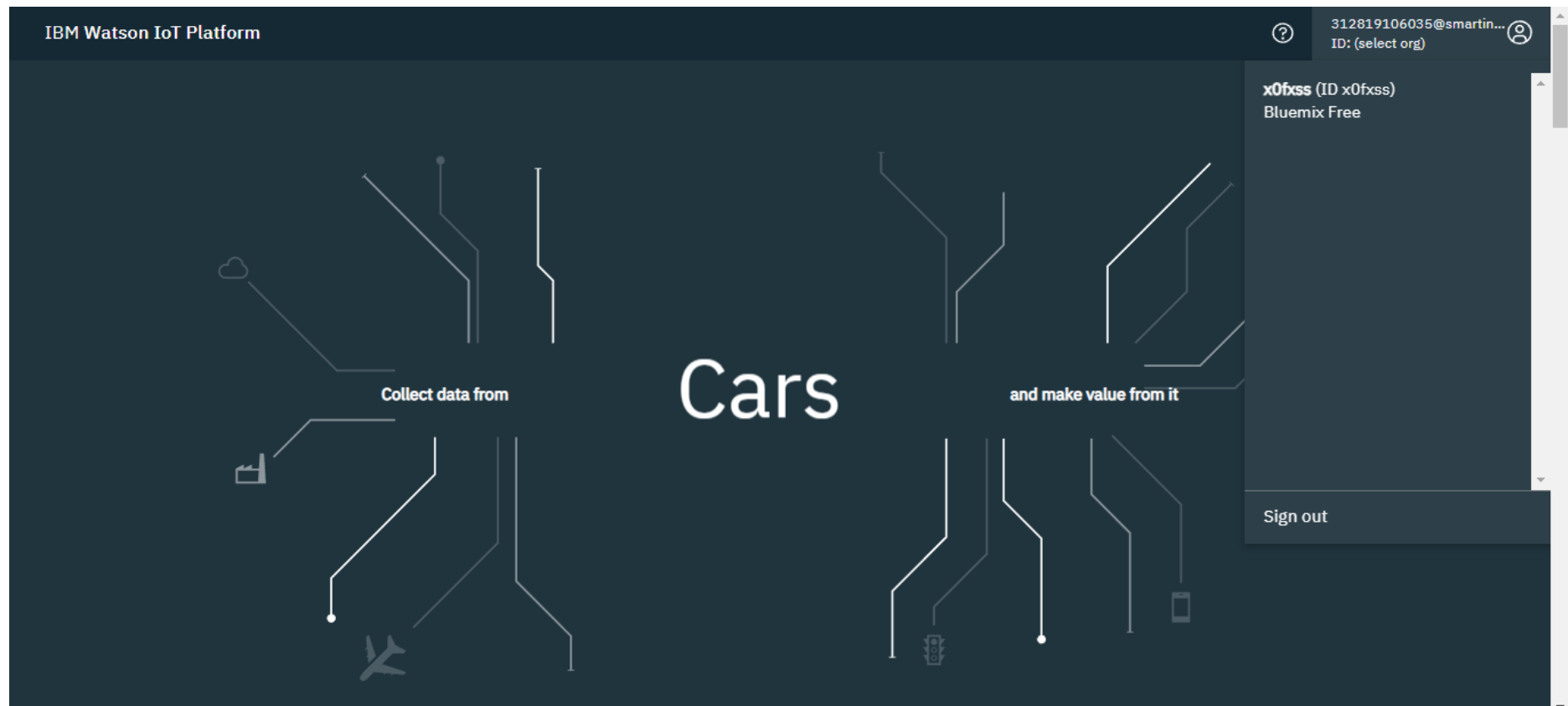
## STEP 2:

After Login you will redirected to your dashboard. Search Internet of Things and Click on it.



## STEP 3:

Now click on existing instance and then click Launch. Now you will be redirected to new page and Sign In again if it's prompt. Next select your org.



## STEP 4:

Go to Devices section, there click on Add Device. There enter your device type and device id. Then click Next and Click Next again.

The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform. The interface includes a top navigation bar with the platform name, a user profile, and a help icon. A left sidebar contains various icons for navigation. The main content area displays the 'Add Device' title and a progress bar with four steps: Identity, Device Information, Security, and Summary. The 'Identity' step is currently active. Below the progress bar, there is a prompt to select a device type and provide a unique ID. Two input fields are present: 'Device Type' with the value 'Arduino' and 'Device ID' with the value '1234'. At the bottom right, there are 'Cancel' and 'Next' buttons.

IBM Watson IoT Platform

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ID: x0fxss

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 Arduino

Device ID 1234

Cancel Next

## STEP 5:

Enter your authentication token or otherwise it will be auto generated and then click Next and then click Finish.

The screenshot shows the 'Security' step of the device registration process in the IBM Watson IoT Platform. The interface includes a top navigation bar with the platform name, a user profile, and a help icon. A left sidebar contains various icons for navigation. The main content area features a progress bar with four steps: Identity, Device Information, Security (current), and Summary. Below the progress bar, there are two options for selecting an authentication token: 'Auto-generated authentication token (default)' and 'Self-provided authentication token'. The 'Auto-generated' option is selected, and a text box displays the generated token '123456789'. A warning message below the token states: 'Make a note of the generated token. Lost authentication tokens cannot be recovered. Tokens are encrypted before being stored.' and 'Authentication token are encrypted before we store them.'

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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 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.

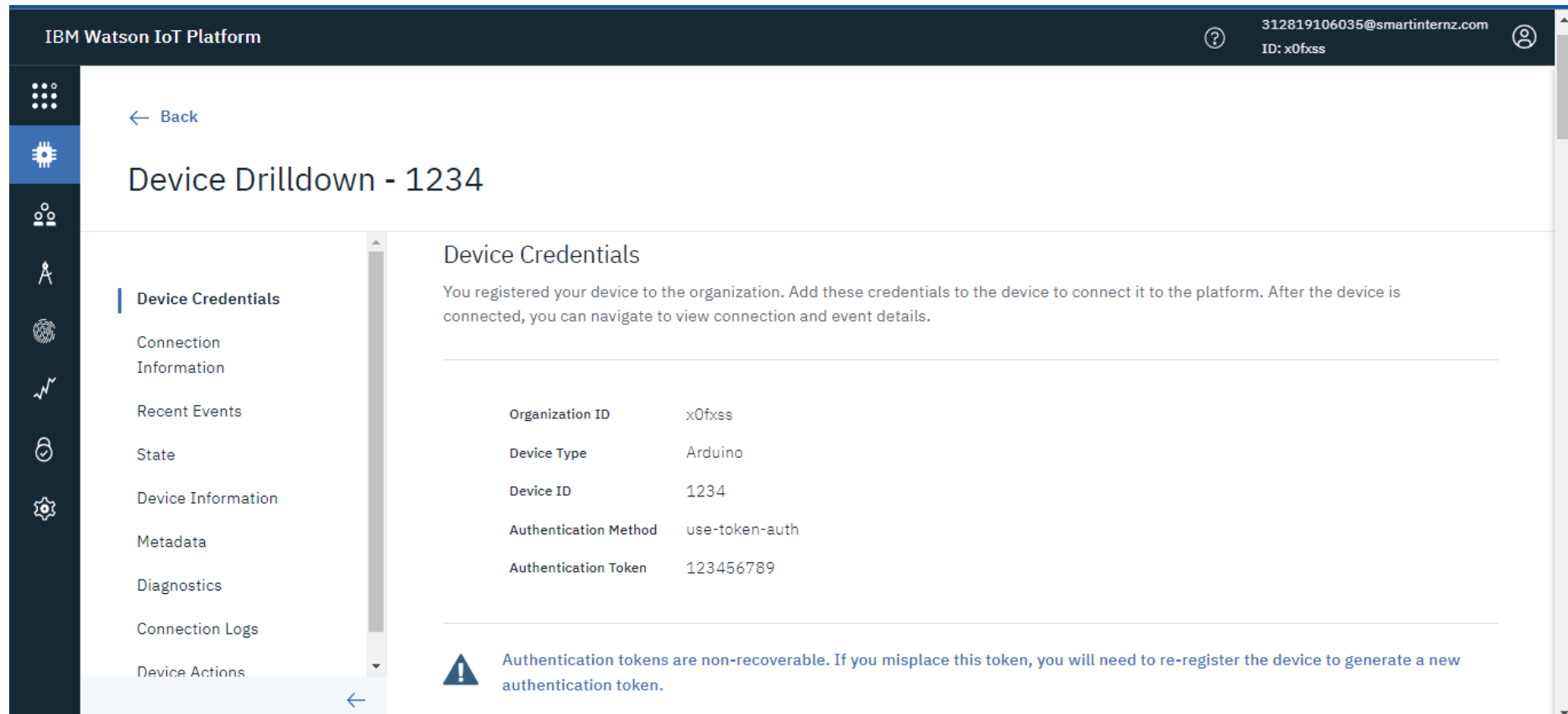
Authentication Token 123456789

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

Authentication token are encrypted before we store them.

## STEP 6:

Now you can see your Device Credentials.



The screenshot displays the IBM Watson IoT Platform interface. The top header shows the platform name, a help icon, the user email '312819106035@smartinternz.com', and the user ID 'ID: x0fxss'. The left sidebar contains a menu with icons for various functions, with 'Device Credentials' currently selected. The main content area is titled 'Device Drilldown - 1234' and features a 'Back' link. Below the title, the 'Device Credentials' section is active, displaying a table of credentials for a device with ID 1234. A warning message at the bottom states that authentication tokens are non-recoverable.

IBM Watson IoT Platform

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ID: x0fxss

← Back

### Device Drilldown - 1234

#### 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	x0fxss
Device Type	Arduino
Device ID	1234
Authentication Method	use-token-auth
Authentication Token	123456789

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

## Step 7:

Now click Back, there you can see the list of devices you created with device type, device id, date that device is created and status.

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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
>	123	Disconnected	Arduino	Device	20 Oct 2022 14:33
>	1234	Disconnected	Arduino	Device	11 Nov 2022 20:46
>	1234	Disconnected	Noder	Device	24 Oct 2022 09:50