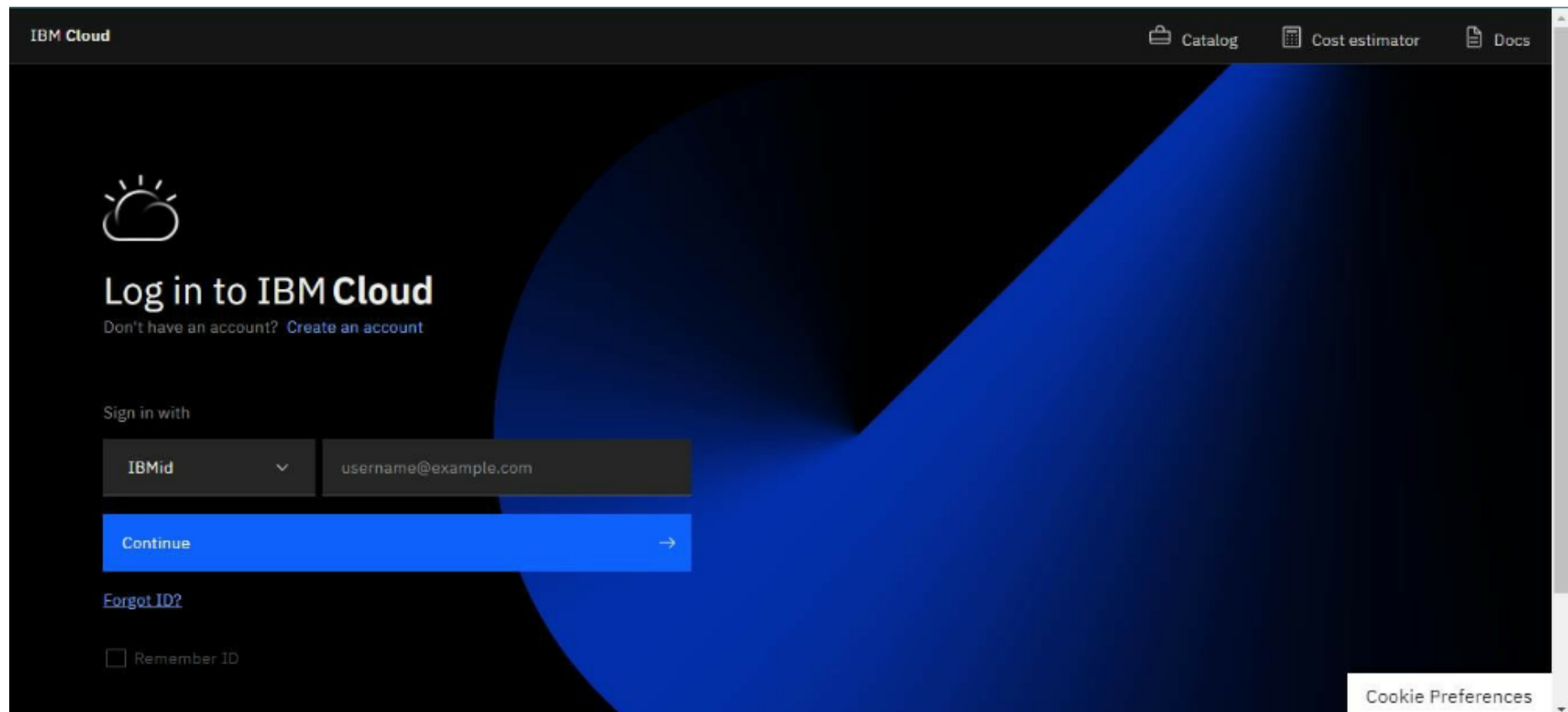


## **Create The IBM Watson IoT Platform And A Device**

<b>Project Title</b>	SmartFarmer – IoT Enabled Smart Farming Application
<b>Team ID</b>	PNT2022TMID47167
<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, there is a dark navigation bar with 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 sun icon, the text 'Log in to IBM Cloud', and a link 'Don't have an account? Create an account'. Below this, there is a 'Sign in with' section featuring 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. At the bottom left, there is a link '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** →

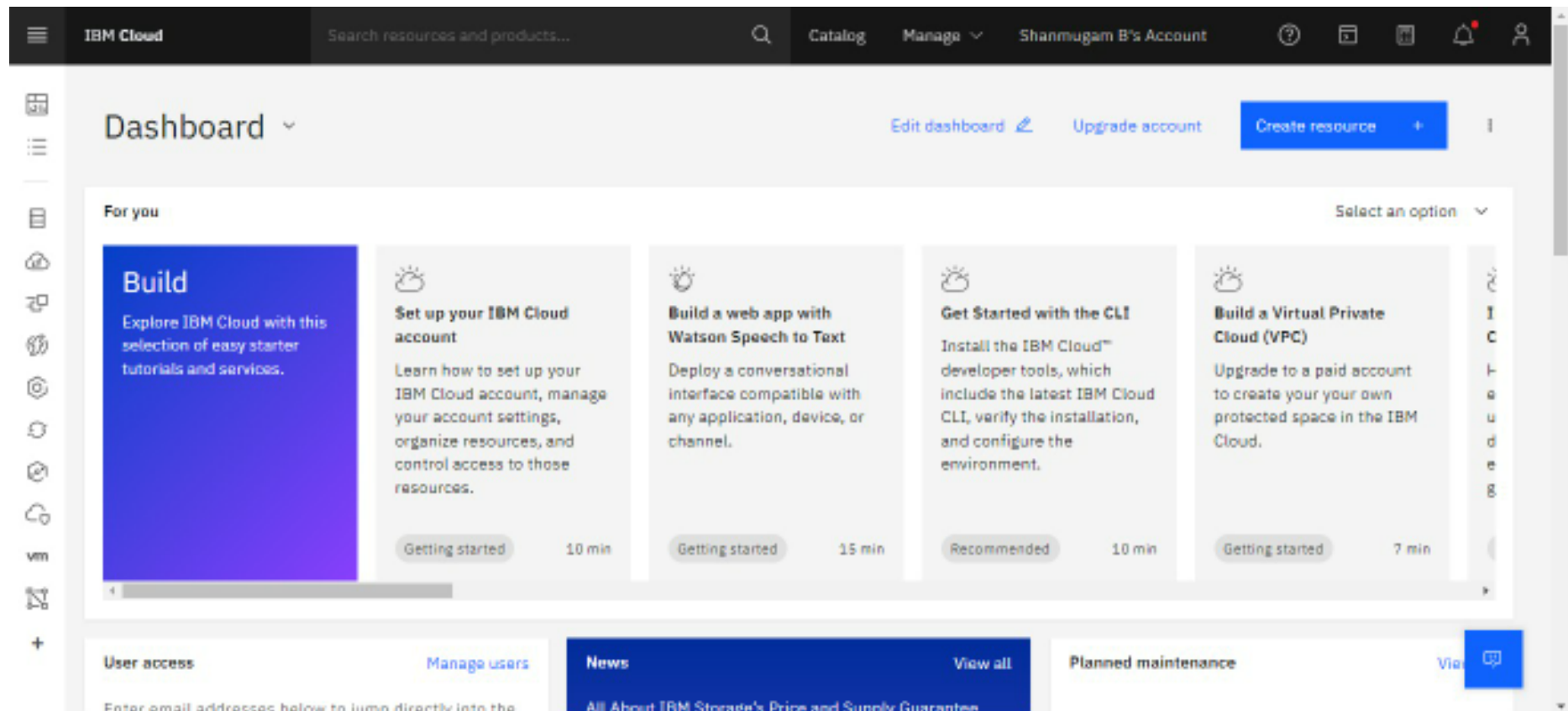
[Forgot ID?](#)

☐ Remember ID

[Cookie Preferences](#)

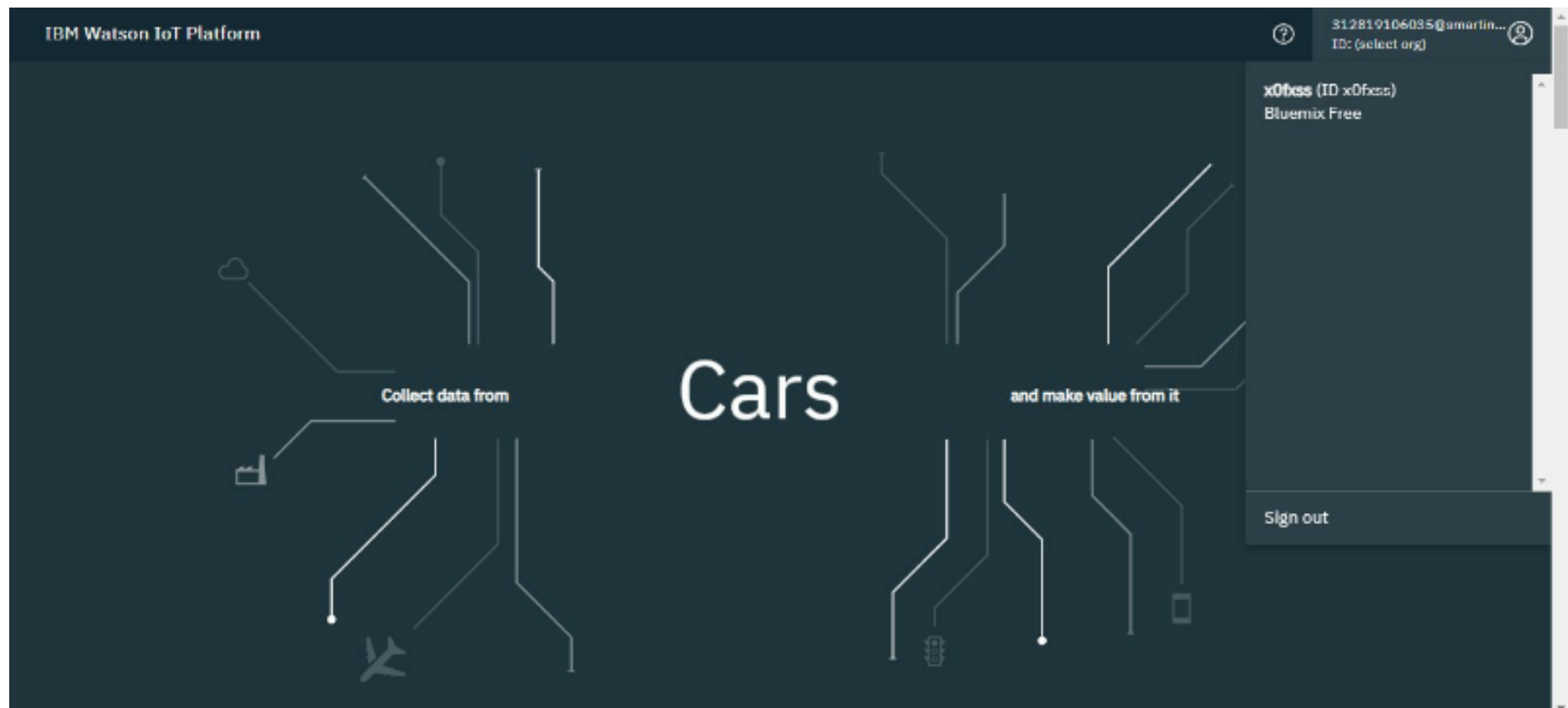
## STEP 2:

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 and user information, and a left sidebar with various icons. The main content area displays 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 text prompt: 'Select a device type for the device that you are adding and give the device a unique ID.' Two input fields are provided: '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

312819106038@smarterintertnz.com  
ID: x0fss

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 IBM Watson IoT Platform interface. At the top, the header includes the platform name, a help icon, a user email (31281910603b@emartinternz.com), and a user ID (x0foss). Below the header is a navigation bar with tabs: Browse, Action, Device Types, and Interfaces. A vertical sidebar on the left contains various icons for navigation. The main content area displays a progress bar with four steps: Identity (checked), Device Information (checked), Security (active), and Summary. The Security step is expanded, showing two options for selecting a device authentication token. The first option, 'Auto-generated authentication token (default)', is selected. It includes instructions to allow the service to generate a token and provides a text box containing the generated token '123456789'. The second option, 'Self-provided authentication token', is unselected and includes instructions to provide a custom token. At the bottom, a note states that authentication tokens are encrypted before storage.

IBM Watson IoT Platform

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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 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.

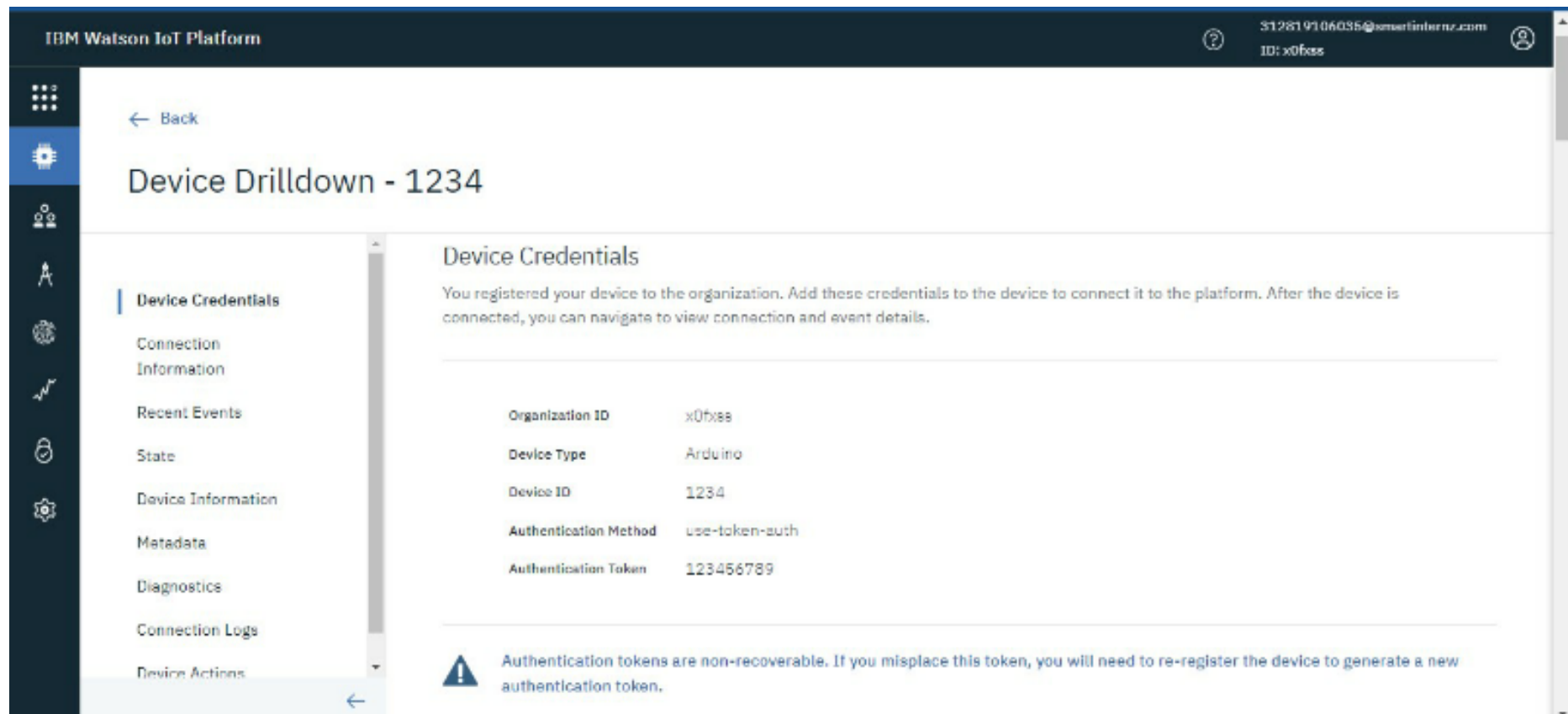
Authentication Token 123456789 ⓘ

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 shows the IBM Watson IoT Platform interface. The top header displays the platform name and user information. The left sidebar contains navigation icons, with 'Device Credentials' selected. The main content area shows the 'Device Drilldown - 1234' page. A 'Device Credentials' section provides instructions and a table of credentials. A warning message at the bottom states that authentication tokens are non-recoverable.

IBM Watson IoT Platform

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ID: x0fss

← Back

### Device Drilldown - 1234

#### Device Credentials

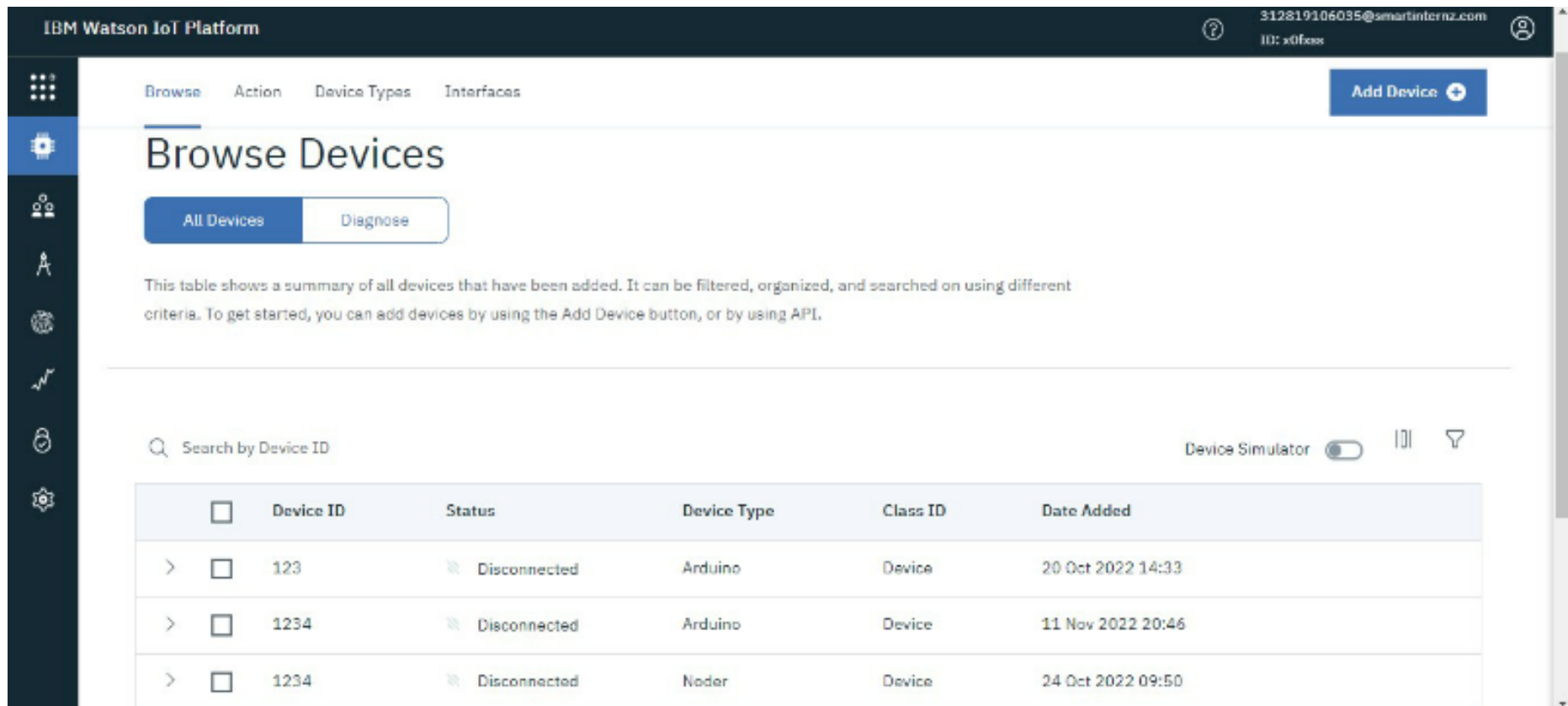
You registered your device to the organization. Add these credentials to the device to connect it to the platform. After the device is connected, you can navigate to view connection and event details.

Organization ID	x0fss
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.



IBM Watson IoT Platform

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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 ☐ | |

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added
> <input type="checkbox"/>	123	Disconnected	Arduino	Device	20 Oct 2022 14:33
> <input type="checkbox"/>	1234	Disconnected	Arduino	Device	11 Nov 2022 20:46
> <input type="checkbox"/>	1234	Disconnected	Noder	Device	24 Oct 2022 09:50