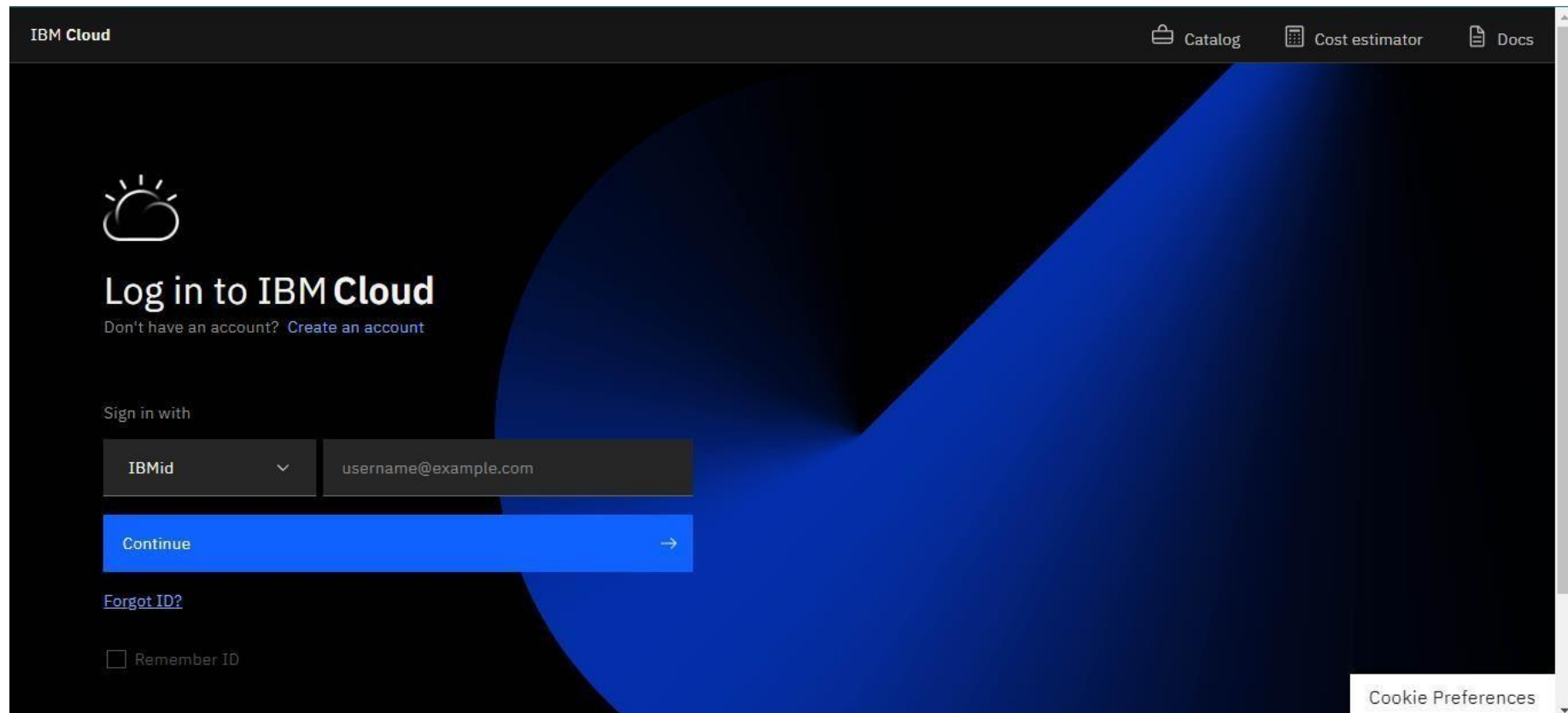


## **Create The IBM Watson IoT Platform And A Device**

<b>Project Title</b>	SmartFarmer – IoT Enabled Smart Farming Application
<b>Team ID</b>	PNT2022TMID03604
<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 cloud icon with sun rays, followed by the text 'Log in to IBM Cloud' and a link 'Don't have an account? Create an account'. Below this, 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. Underneath the button is a link for 'Forgot ID?'. At the bottom left, there is 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 ▼ username@example.com

Continue →

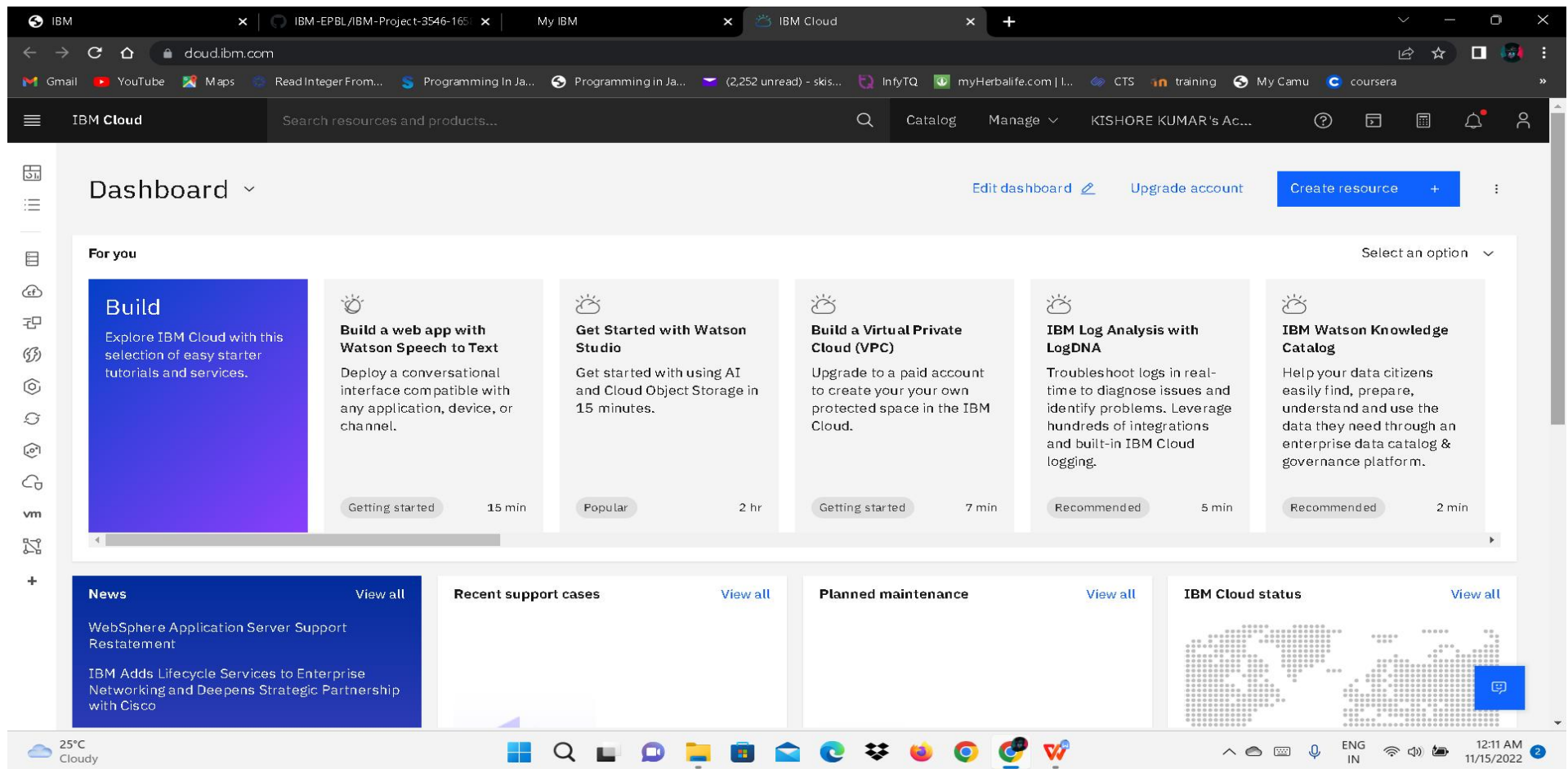
[Forgot ID?](#)

☐ Remember ID

[Cookie Preferences](#)

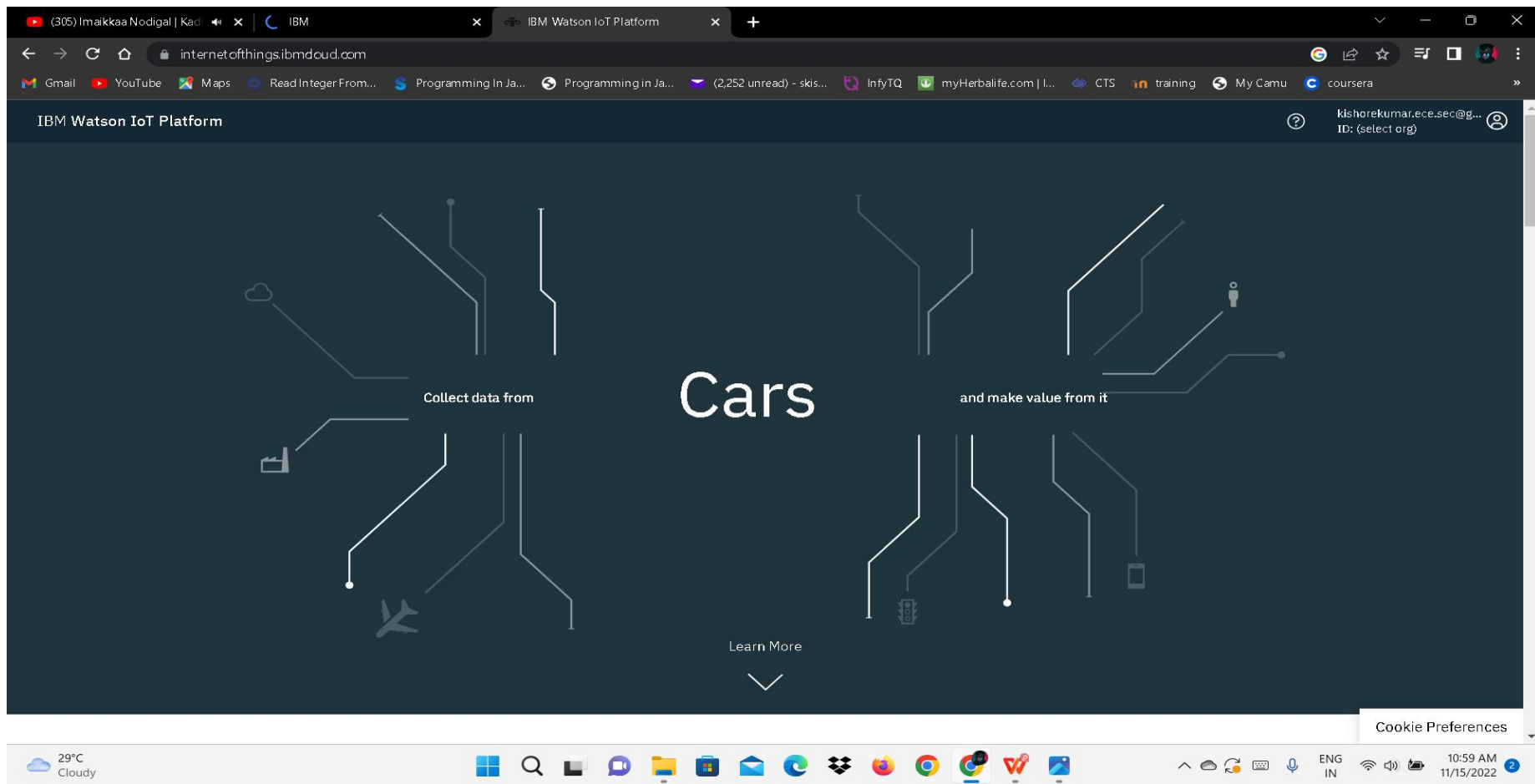
## STEP 2:

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



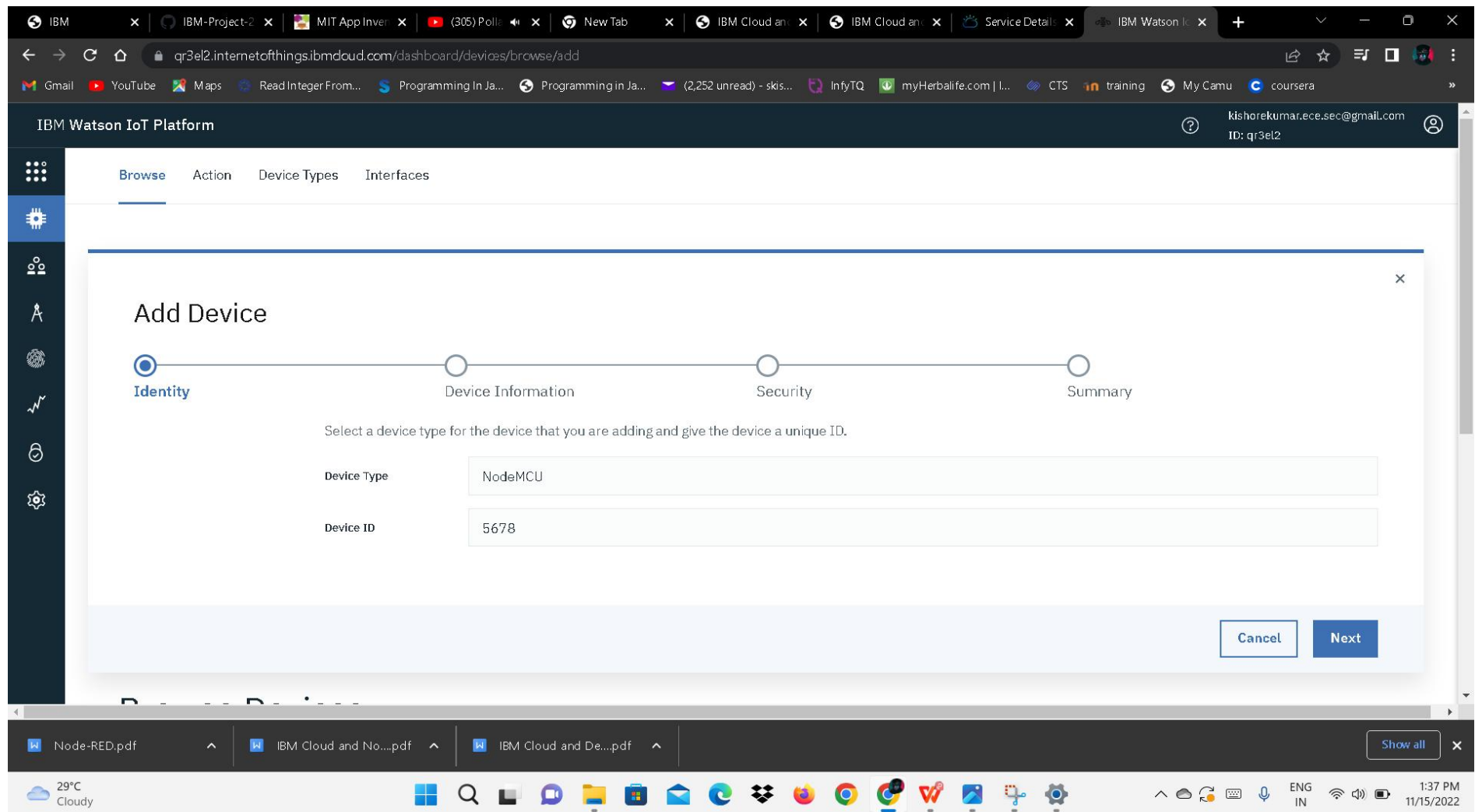
## STEP 3:

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.



## STEP 5:

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

IBM Watson IoT Platform

q3el2.internetofthings.ibmcloud.com/dashboard/devices/browse/add

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 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.

29°C Cloudy

1:38 PM 11/15/2022

## STEP 6:

### Now you can see your Device Credentials.

The screenshot shows the IBM Watson IoT Platform interface. The browser address bar displays the URL: `qr3el2.internetofthings.ibmcloud.com/dashboard/devices/drilldown/NodeMCU:5678?returnTo=/devices/browse`. The page title is "Device Drilldown - 5678". The left sidebar contains a menu with the following items: "Device Credentials" (selected), "Connection Information", "Recent Events", "State", "Device Information", "Metadata", "Diagnostics", "Connection Logs", and "Device Actions". The main content area is titled "Device Credentials" and contains the following text: "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." Below this text is a table with the following data:

Organization ID	qr3el2
Device Type	NodeMCU
Device ID	5678
Authentication Method	use-token-auth
Authentication Token	123456789

Below the table, there is a warning icon and the 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." At the bottom of the main content area, there is a link: "Find out how to add these credentials to your device". The bottom of the screen shows the Windows taskbar with the date and time: 1:38 PM, 11/15/2022.

## 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.

The screenshot displays the IBM Watson IoT Platform interface. The top navigation bar shows the user is logged in as kishorekumar.ece.sec@gmail.com with ID: qr3el2. The main heading is 'Browse Devices'. Below the heading, there are two tabs: 'All Devices' (selected) and 'Diagnose'. A descriptive text states: '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.' Below this, there is a search bar labeled 'Search by Device ID' and a 'Device Simulator' toggle switch. The table below lists the devices:

	Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
>	12345	Disconnected	NodeMCU	Device	Oct 20, 2022 11:06 PM	
>	5678	Disconnected	NodeMCU	Device	Nov 15, 2022 1:38 PM	

At the bottom of the table, it says 'Items per page 50 | 1-2 of 2 items'. On the right, it shows '1 of 1 page' with navigation arrows.