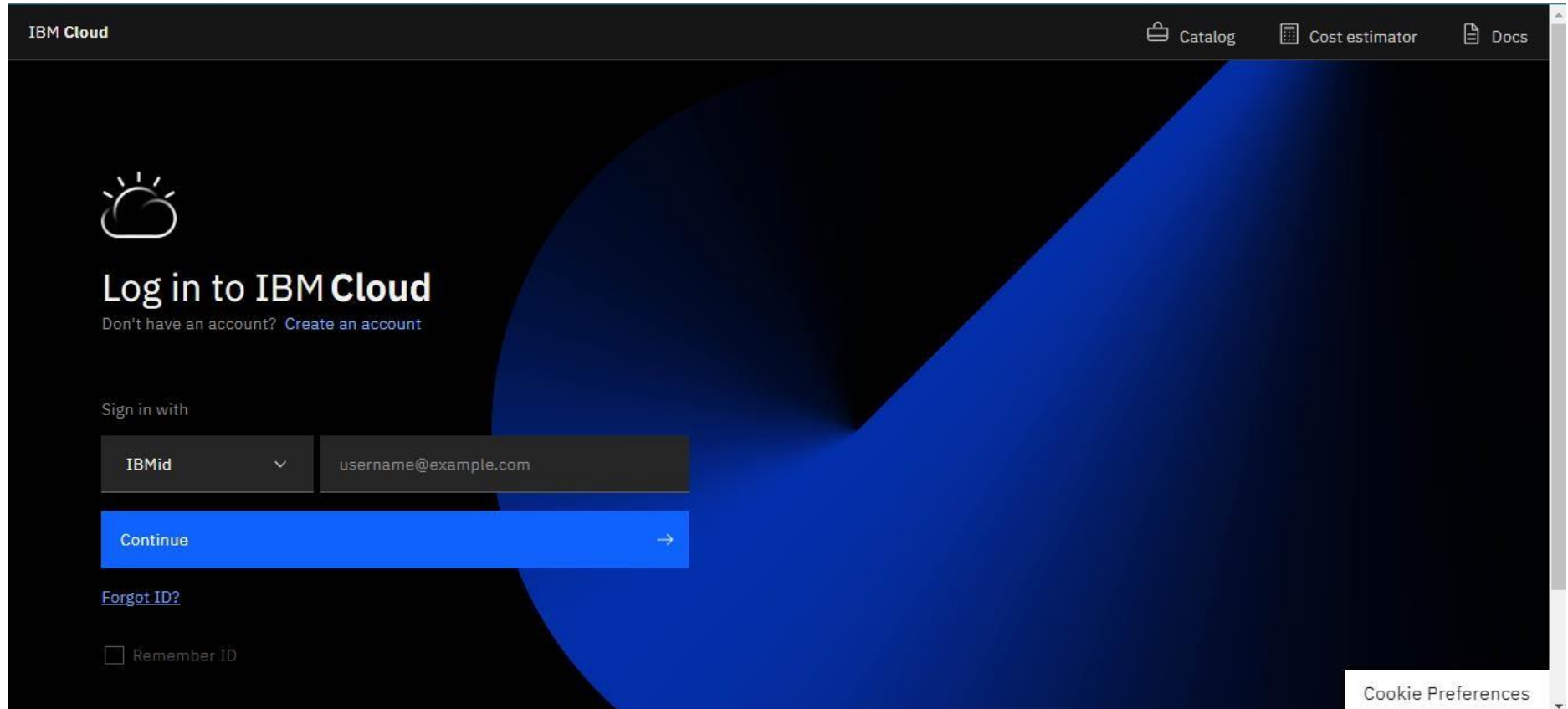


## **Create The IBM Watson IoT Platform And A Device**

<b>Project Title</b>	SmartFarmer – IoT Enabled Smart Farming Application
<b>Team ID</b>	PNT2022TMID31754
<b>Content</b>	IBM Cloud and Device Creation


## STEP 1:

Login into your IBM Cloud.

A screenshot of the IBM Cloud login page. The page has a dark background with a blue abstract shape on the right. At the top left is the 'IBM Cloud' logo. At the top right are links for 'Catalog', 'Cost estimator', and 'Docs'. The main heading is 'Log in to IBM Cloud' with a sub-link 'Don't have an account? Create an account'. Below this is a 'Sign in with' section featuring a dropdown menu set to 'IBMid' and a text input field containing 'username@example.com'. A large blue 'Continue' button with a right arrow is positioned below the input field. At the bottom left is a 'Forgot ID?' link, and at the bottom center is a 'Remember ID' checkbox. A 'Cookie Preferences' link is located in the bottom right corner.

IBM Cloud

Catalog Cost estimator Docs



**Log in to IBM Cloud**

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

Sign in with

IBMid

[Continue](#) →

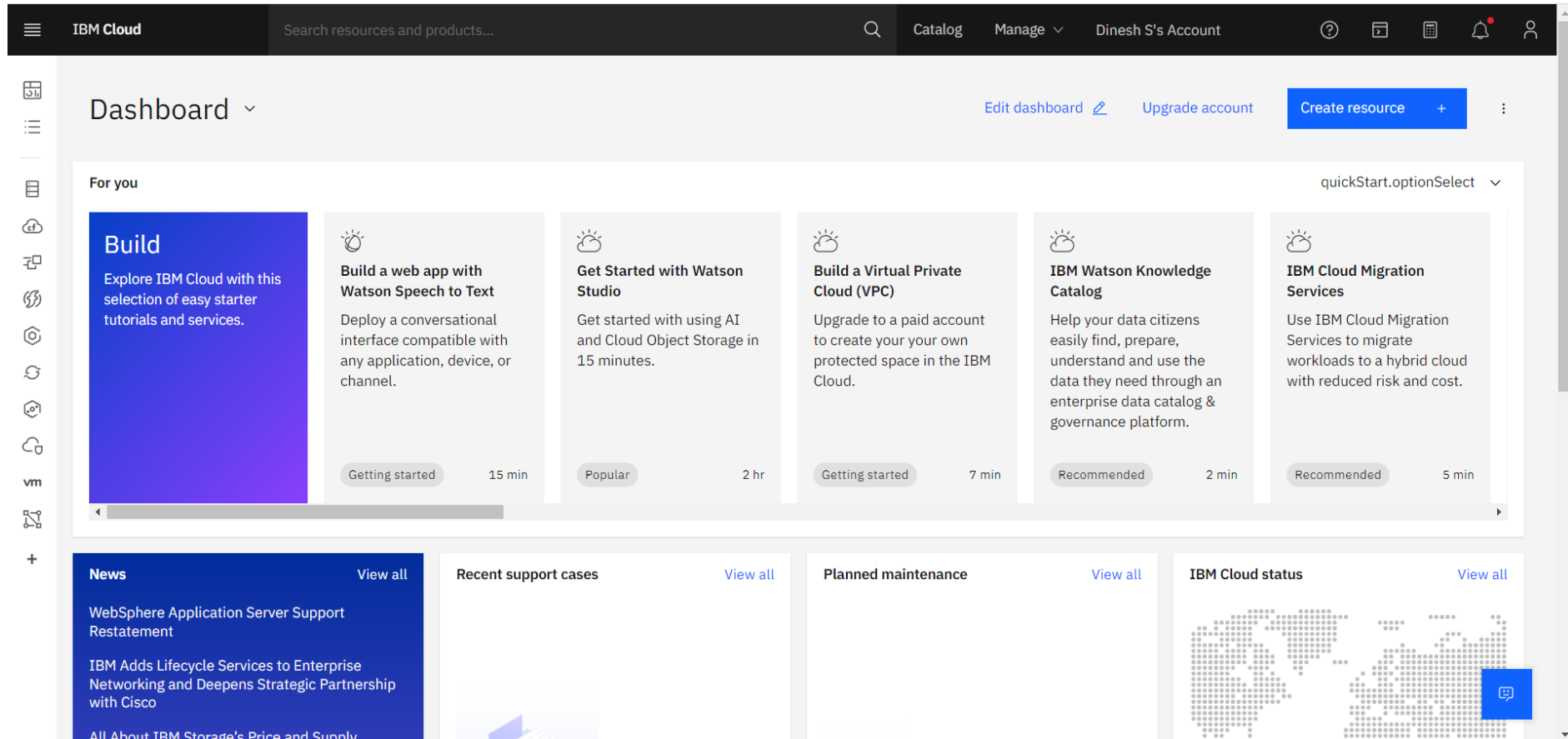
[Forgot ID?](#)

☐ Remember ID

[Cookie Preferences](#)

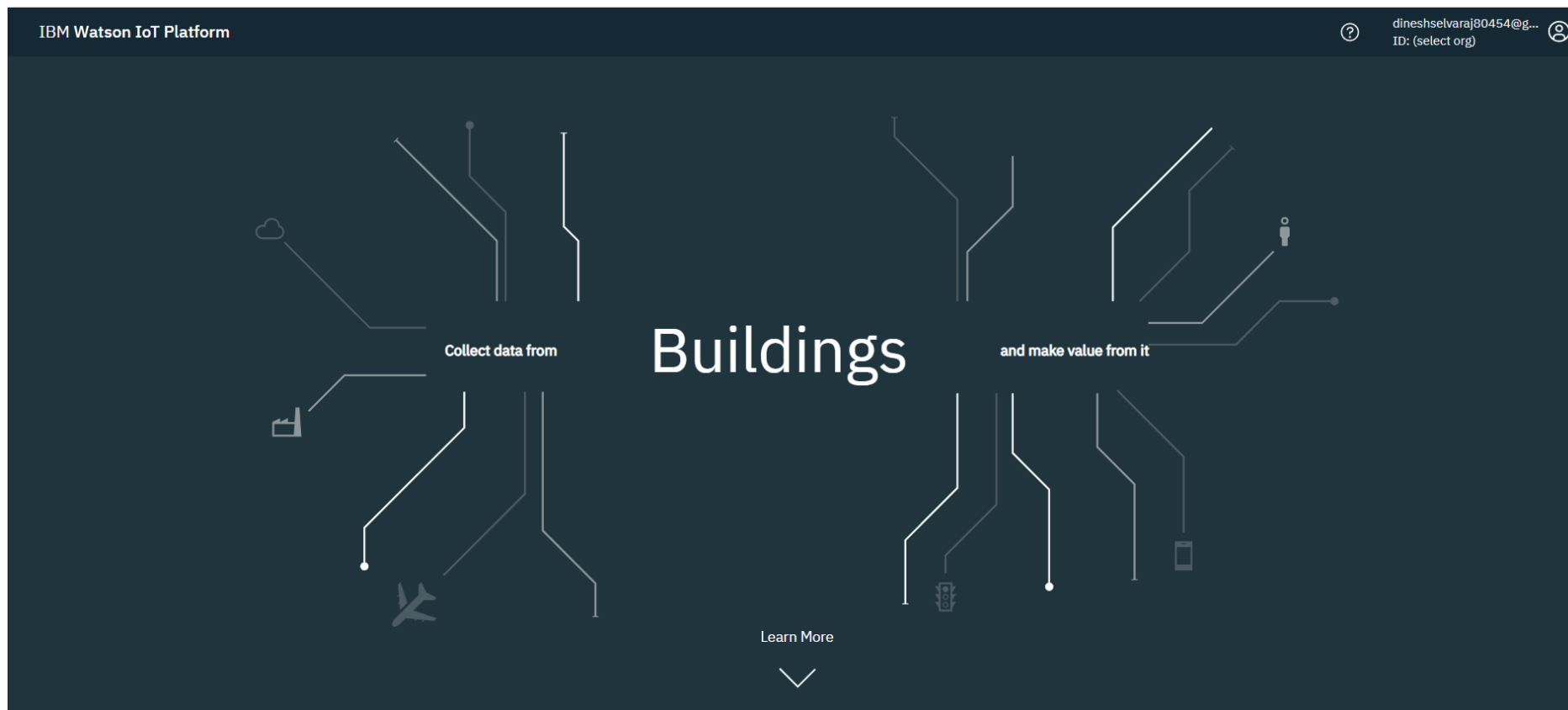
## STEP 2:

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 IBM Watson IoT Platform interface. At the top, the header reads 'IBM Watson IoT Platform' with a user profile 'dineshselvaraj80454@gmail.com' and ID '9lg1'. A sidebar on the left contains icons for various functions. The main navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. The 'Add Device' modal is open, displaying a four-step progress bar: 'Identity' (active), 'Device Information', 'Security', and 'Summary'. Below the progress bar, a message states: '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 'Arduino' and 'Device ID' with the value '1234'. At the bottom right of the modal are 'Cancel' and 'Next' buttons. Below the modal, the 'Browse Devices' section is visible with tabs for 'All Devices' and 'Diagnose'.

IBM Watson IoT Platform

dineshselvaraj80454@gmail.com  
ID: 9lg1

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

### Browse Devices

All Devices Diagnose

## 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

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Browse Action Device Types Interfaces

Add Device

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.

Back Next

## STEP 6:

Now you can see your Device Credentials.

The screenshot displays the IBM Watson IoT Platform interface. At the top, a dark blue header bar contains the text "IBM Watson IoT Platform" on the left, a help icon and user information "dineshselvaraj80454@gmail.com ID: 9lg1g1" on the right, and a user profile icon. Below the header is a dark blue sidebar with a grid of icons. The main content area is white and titled "Device Drilldown - 1234" with a "Back" link. A left-hand menu lists several options: "Device Credentials" (highlighted with a vertical bar), "Connection Information", "Recent Events", "State", "Device Information", "Metadata", "Diagnostics", "Connection Logs", and "Device Actions". The "Device Credentials" section is active, showing a title "Device Credentials" and a paragraph: "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 is a table with the following data:

Organization ID	9lg1g1
Device Type	Arduino
Device ID	1234
Authentication Method	use-token-auth
Authentication Token	123456789

Below the table is a warning icon (exclamation mark in a triangle) followed by 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 section is a link: "Find out how to add these credentials to your device" with an external link icon.

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

?

dineshselvaraj80454@gmail.com

ID: 9lg1

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	Descriptive Location
>	123	Disconnected	Arduino	Device	13 Nov 2022 22:24	
>	1234	Disconnected	Arduino	Device	13 Nov 2022 22:21	
>	1234	Disconnected	Noder	Device	13 Nov 2022 22:25	

Items per page 50

1-3 of 3 items

1 of 1 page

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1

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