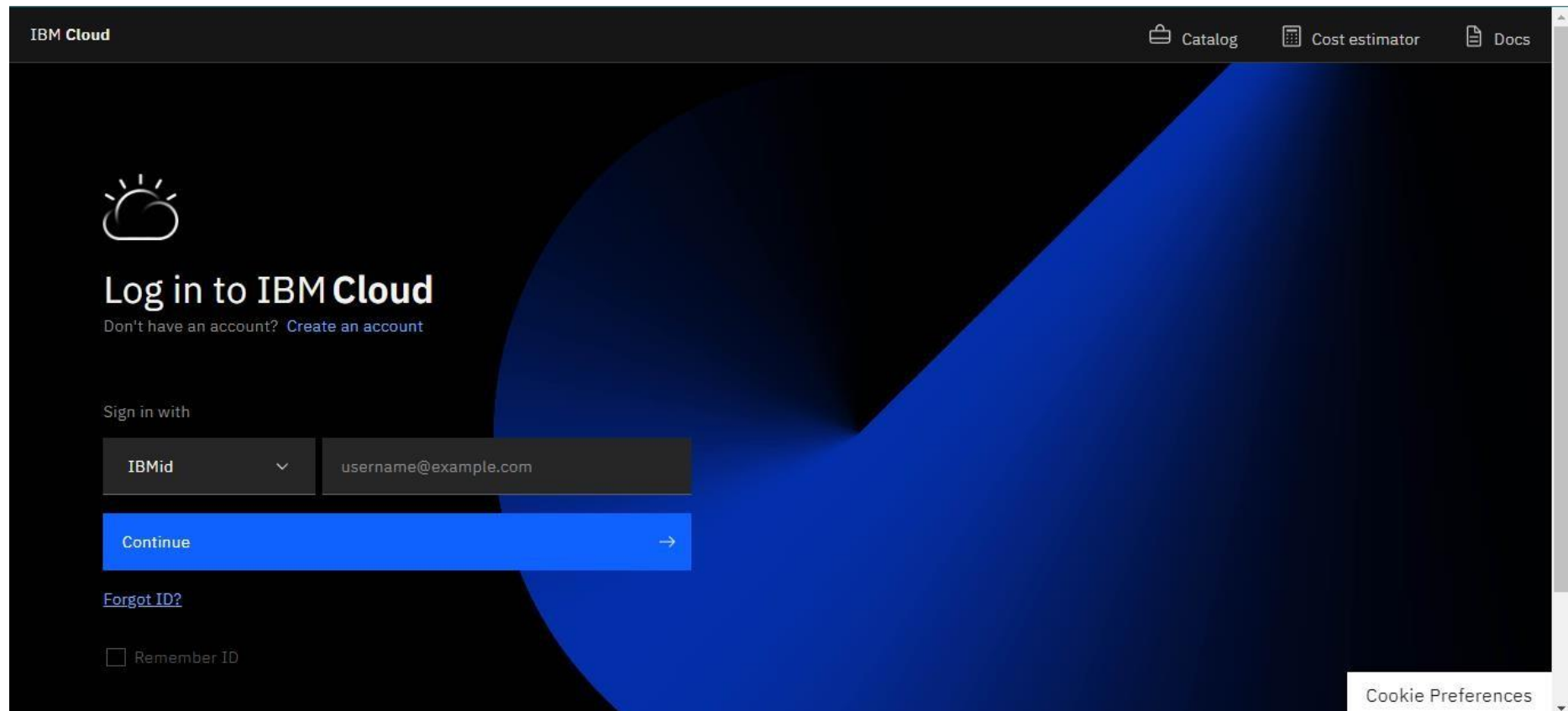


Create The IBM Watson IoT Platform And A Device

Project Title	SmartFarmer – IoT Enabled Smart Farming Application
Team ID	PNT2022TMID40817
Content	IBM Cloud and Device Creation

STEP 1:

Login into your IBM Cloud.

The image 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, the text 'Log in to IBM Cloud', and a link 'Don't have an account? Create an account'. Below this, a '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. 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.

STEP 2:

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

The screenshot displays the IBM Cloud dashboard in a web browser. The browser's address bar shows 'cloud.ibm.com'. The dashboard header includes the 'IBM Cloud' logo, a search bar, and navigation links for 'Catalog', 'Manage', and the user's account 'Kesavabharathi P's Acc...'. On the left, a sidebar contains icons for various services. The main content area is titled 'Dashboard' and features a 'For you' section with several recommended actions: 'Build' (Explore IBM Cloud with this selection of easy starter tutorials and services), 'Explore IBM Cloud Shell' (Try a command-driven approach for creating, developing, and deploying a web project), 'Visit the IBM Cloud catalog' (Explore our unique product catalog that contains 190+ services and software for your business solutions), 'Build a web app with Watson Speech to Text' (Deploy a conversational interface compatible with any application, device, or channel), 'Get Started with Watson Studio' (Get started with using AI and Cloud Object Storage in 15 minutes), and 'Build a Virtual Private Cloud (VPC)' (Upgrade to a paid account to create your own protected space in the IBM Cloud). Below this, there are sections for 'News' (Introducing Badges to IBM Cloud Certification, Announcing IBM SevOne Network Performance Management Version 6.4, IBM Named a Leader in Gartner Magic Quadrant), 'Recent support cases', 'Planned maintenance', and 'IBM Cloud status'. The bottom of the screen shows a Windows taskbar with various application icons and a system tray indicating the time as 16:50 on 20-11-2022.

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.

The screenshot displays the IBM Watson IoT Platform interface in a web browser. The browser's address bar shows the URL `internetofthings.ibmcloud.com`. The page header includes the text "IBM Watson IoT Platform" and a user profile dropdown menu. The dropdown menu is open, showing the email address `611719104010@martin...`, the text "ID: (select org)", and the user name `qb4pi8 (ID qb4pi8)` with the role "Bluemix Free". A "Sign out" button is visible at the bottom of the dropdown. The main content area features a dark blue background with a circuit-like pattern. The central text reads "Equipment". To the left, it says "Collect data from" with a factory icon. To the right, it says "and make value from it" with a smartphone icon. Below the central text is a "Learn More" link with a downward arrow. The Windows taskbar at the bottom shows various application icons, including the Start button, Search, File Explorer, Edge, and others. The system tray on the right indicates the language is "ENG IN", the date is "20-11-2022", and the time is "16:27".

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.

IBM Watson IoT Platform

611719104010@smartinternz.com
ID: qb4pi8

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	Descriptive Location
> <input type="checkbox"/>	kesav1234	Disconnected	kesav	Device	Nov 10, 2022 3:36 PM	

Items per page 50 | 1-1 of 1 item

1 of 1 page

1 Simulation running

16:27 20-11-2022

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. The top navigation bar includes the platform name, a help icon, a user email (312819106035@smartinternz.com), and a user ID (ID: x0fxss). The left sidebar contains various icons for navigation. The main content area is titled 'Security' and features a progress bar with four steps: Identity, Device Information, Security (current step), and Summary. Below the progress bar, there are two options for selecting a device authentication token. The 'Auto-generated authentication token (default)' option is selected, showing a generated token '123456789' in a text box. The 'Self-provided authentication token' option is also visible. A warning message states: 'Make a note of the generated token. Lost authentication tokens cannot be recovered. Tokens are encrypted before being stored.' and a note says 'Authentication token are encrypted before we store them.'

IBM Watson IoT Platform

312819106035@smartinternz.com
ID: x0fxss

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 displays the IBM Watson IoT Platform interface. The top header bar is dark blue with the text "IBM Watson IoT Platform" on the left, a help icon and user information "312819106035@smartinternz.com ID: x0fxss" on the right, and a user profile icon. A dark blue sidebar on the left contains a grid icon at the top, followed by a highlighted gear icon, and then several other icons. The main content area has a dark blue header with a "Back" link and the title "Device Drilldown - 1234". Below this, a light gray sidebar lists navigation options: "Device Credentials" (highlighted with a blue bar), "Connection Information", "Recent Events", "State", "Device Information", "Metadata", "Diagnostics", "Connection Logs", and "Device Actions". The main content area is titled "Device Credentials" and contains 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 paragraph is a table with the following data:

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

At the bottom of the main content area, there is a warning icon (a blue triangle with an exclamation mark) 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."

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

312819106035@smartinternz.com
ID: x0fxxs

Browse Action Device Types Interfaces

Add Device +

Browse Devices

All Devices Diagnose

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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