

Pre Requisites

Project Title	SmartFarmer – IoT Enabled Smart Farming Application
Team ID	PNT2022TMID04704
Content	IBM Cloud Service

STEP 1:

Type IBM Cloud in Google and click on the first link.

The screenshot shows a web browser window with a Google search for "ibm cloud". The search results show "About 17,50,00,000 results (0.47 seconds)". The first result is "https://www.ibm.com › in-en › cloud" with the title "IBM Cloud - India" and a description: "A full stack cloud platform with over 170 products and services covering. You visited this page on 18/11/22." The second result is "https://cloud.ibm.com" with the title "IBM Cloud" and a description: "Start building immediately using 190+ unique services. Cloud Computing · Account registration · Catalog · IBM Watson. You've visited this page 2 times. Last visit: 22/8/22". Below the search results is a "People also ask" section with four questions: "What is IBM Cloud?", "Is IBM Cloud free?", "Does IBM Cloud use AWS?", and "What are the IBM Cloud types?". To the right of the search results is a knowledge panel for "IBM cloud computing" with a description: "Computer software". The panel also includes a brief description: "IBM cloud computing is a set of cloud computing services for business offered by the information technology company IBM. Wikipedia", and metadata: "Platform: Cross-platform software", "Initial release date: 7 April 2011", "Developer: IBM", and "Original author: IBM". The browser's taskbar at the bottom shows various application icons and system status indicators.

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ibm cloud - Google Search

google.com/search?q=ibm+cloud&oq=ibm+cloud&aqs=chrome..69i57.2351j0j1&sourceid=chrome&ie=UTF-8

Google

ibm cloud

All News Images Videos Books More Tools

About 17,50,00,000 results (0.47 seconds)

https://www.ibm.com › in-en › cloud

IBM Cloud - India

A full stack cloud platform with over 170 products and services covering.
You visited this page on 18/11/22.

https://cloud.ibm.com

IBM Cloud

Start building immediately using 190+ unique services.
Cloud Computing · Account registration · Catalog · IBM Watson
You've visited this page 2 times. Last visit: 22/8/22

People also ask

What is IBM Cloud?

Is IBM Cloud free?

Does IBM Cloud use AWS?

What are the IBM Cloud types?

Feedback

IBM Cloud

IBM cloud computing

Computer software

IBM cloud computing is a set of cloud computing services for business offered by the information technology company IBM. Wikipedia

Platform: Cross-platform software

Initial release date: 7 April 2011

Developer: IBM

Original author: IBM

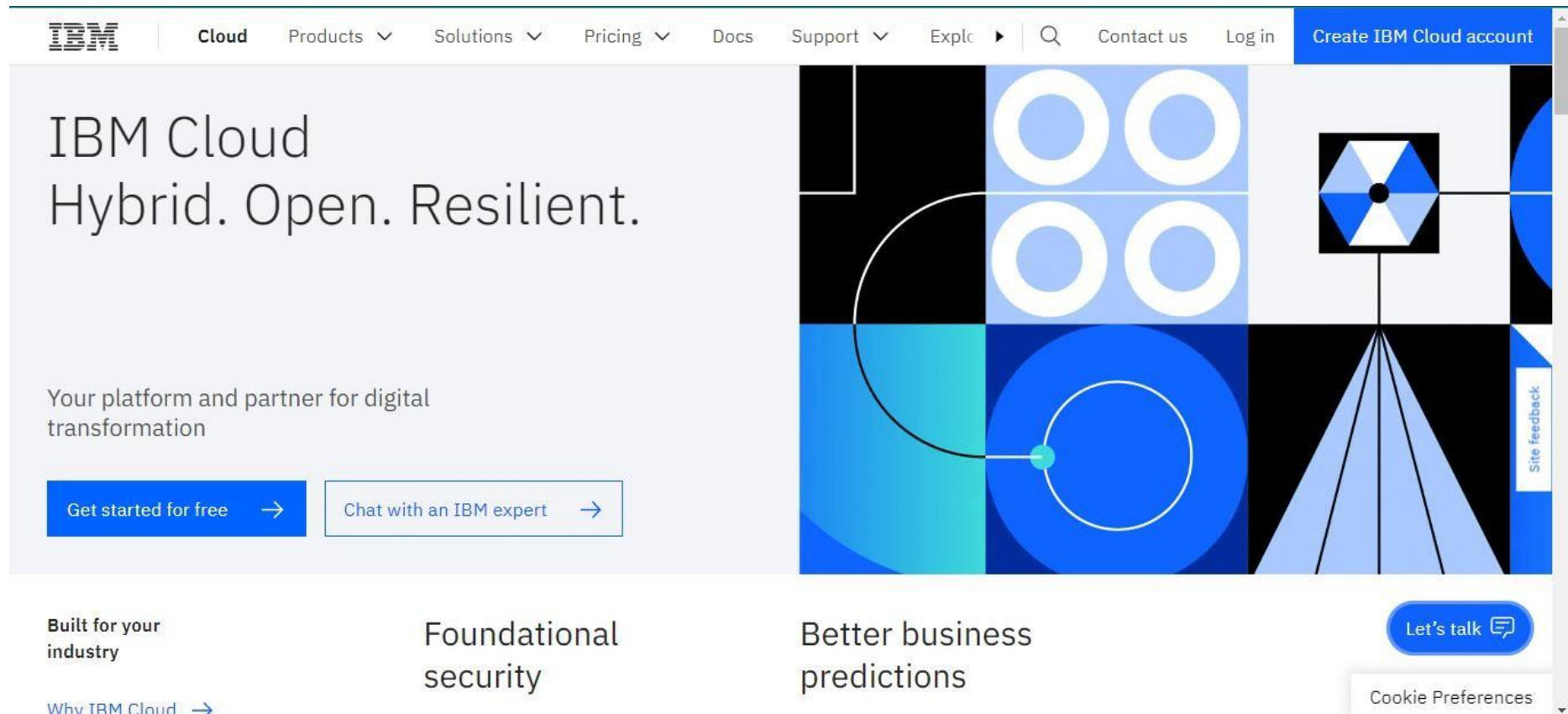
Establishing secure connection...

100%

ENG 10:36 PM 18-11-2022

STEP 2:

Click on create IBM Cloud Account Now and enter the details.



The screenshot shows the IBM Cloud website homepage. The top navigation bar includes the IBM logo, links for Cloud, Products, Solutions, Pricing, Docs, Support, Explore, a search icon, Contact us, Log in, and a prominent blue button labeled "Create IBM Cloud account". The main hero section features the text "IBM Cloud Hybrid. Open. Resilient." and "Your platform and partner for digital transformation". Below this text are two buttons: "Get started for free" and "Chat with an IBM expert". The right side of the hero section is a large abstract graphic with blue, black, and white geometric shapes. At the bottom, there are three columns of text: "Built for your industry" with a link "Why IBM Cloud", "Foundational security", and "Better business predictions". A "Let's talk" button is located at the bottom right, and a "Cookie Preferences" link is at the very bottom right.

IBM Cloud
Hybrid. Open. Resilient.

Your platform and partner for digital transformation

Get started for free → Chat with an IBM expert →

Built for your industry
Why IBM Cloud →

Foundational security

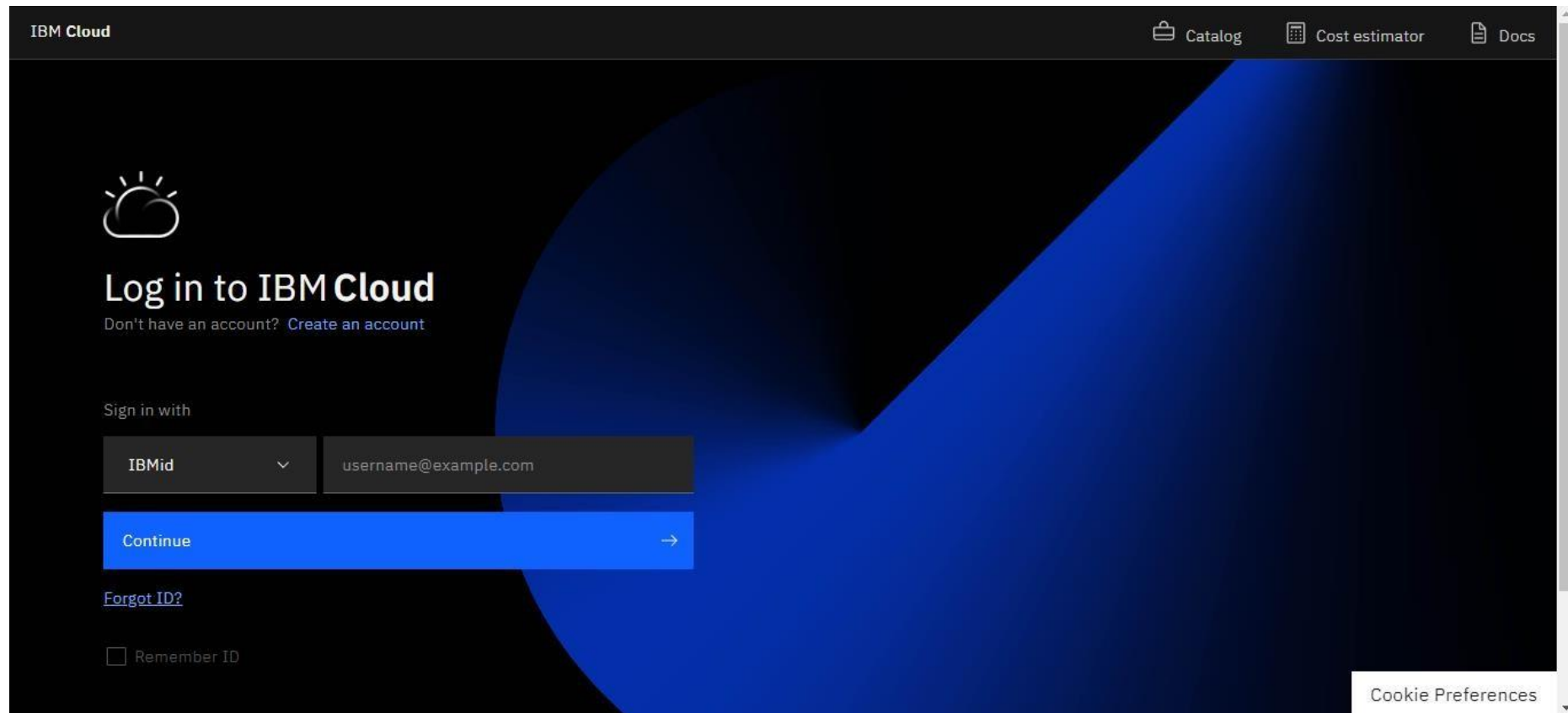
Better business predictions

Let's talk

Cookie Preferences

STEP 3:

You will get the email with your password. Type your mail Id and the password then click on the login button.



The screenshot shows the IBM Cloud login interface. At the top, there is a dark header with the 'IBM Cloud' logo on the left and navigation 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. Underneath the button, there is a link for 'Forgot ID?' and a checkbox labeled 'Remember ID'. In the bottom right corner, a 'Cookie Preferences' link is visible.

STEP 4:

Now you are in Dashboard

From Dashboard you can now navigate IBM IoT Platform by searching in search bar.

The screenshot displays the IBM Cloud Dashboard in a web browser. The browser's address bar shows 'cloud.ibm.com'. The dashboard header includes a search bar, navigation links for 'Catalog', 'Manage', and 'Ramya T's Account', and a 'Create resource' button. The main content area is titled 'Dashboard' and features a 'For you' section with six 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 four sections: 'News' (IBM Named a Leader in Gartner Magic Quadrant for Full Life Cycle API Management, IBM to Introduce a New Incident Management), '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 10:38 PM on 18-11-2022.

STEP 5:

Now Click Launch to launch your platform.

The screenshot displays the IBM Cloud console interface for the 'Internet of Things Platform-xw' resource. The browser address bar shows the URL: `cloud.ibm.com/services/iotf-service/crn%3Av1%3Abluemix%3Apublic%3Aaiof-service%3Aeu-gb%3Aa%2F119afe58d95140ca9a635ff4ea33af87%3A757bacc1-ab0c-4dcd-81f6-c4275dad4...`. The IBM Cloud header includes a search bar and navigation links for 'Catalog', 'Manage', and 'Ramya T's Account'. The main content area features a large illustration of a central device connected to various sensors and data points. Below this, a 'Launch' button is prominently displayed next to a 'Docs' button. A section titled 'Ready for the next level?' introduces the 'IBM Watson IoT Platform Journey' with three service plan options: 'Lite', 'Non-Production', and 'Production'. Each plan includes a brief description of its capabilities. The bottom of the screen shows the Windows taskbar with several open applications and the system clock indicating 10:42 PM on 18-11-2022.

Resource list / Internet of Things Platform-xw Active Add tags Details Actions...

Manage

- Plan
- Connections

Let's get started with IBM Watson IoT Platform

Securely connect, control, and manage devices. Quickly build IoT applications that analyze data from the physical world.

[Launch](#) [Docs](#)

Ready for the next level?

IBM Watson IoT Platform Journey

- Lite**
The Lite service plan provides a lightweight development environment to get you started
- Non-Production**
The Non-Production service plan is a full-featured, fully-integrated offering that enables
- Production**
The Production service is a fully managed SaaS offering that enables you to manage and analyze

IBM Cloud Service....docx IBM Cloud Service.pdf Project Report Doc....pdf [Show all](#)

100% 10:42 PM 18-11-2022

STEP 6:

Now Click your profile and then select Organization.

The screenshot displays the IBM Watson IoT Platform interface. The main header shows the platform name and a user profile icon. The central area features a large graphic with the word "Equipment" and the text "Collect data from" and "and make value from it". A dropdown menu is open, showing the user's email "ramyat.19ece@kongu.edu" and the organization "3nw9vo (ID 3nw9vo) Bluemix Free". A "Sign out" button is visible in the dropdown. The bottom of the screen shows a Windows taskbar with various application icons and a system tray with the date and time "10:44 PM 18-11-2022".

IBM Watson IoT Platform

ramyat.19ece@kongu.edu
ID: (select org)

3nw9vo (ID 3nw9vo)
Bluemix Free

Sign out

Equipment

Collect data from

and make value from it

Learn More

Cookie Preferences

IBM Cloud Service....docx IBM Cloud Service.pdf Project Report Doc....pdf

100% 10:44 PM 18-11-2022

STEP 7:

Now you can create your device by Devices>Add Device.

IBM Watson IoT Platform

ramyat.19ece@kongu.edu
ID: 3nw9vo

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"/>	application	Disconnected	farming	Device	Nov 18, 2022 4:17 PM	
> <input type="checkbox"/>	iot	Disconnected	IoTdevice	Device	Nov 14, 2022 7:28 PM	

Items per page 50 | 1-2 of 2 items

1 of 1 page

1 Simulation running

IBM Cloud Service....docx IBM Cloud Service.pdf Project Report Doc....pdf

100% 10:44 PM 18-11-2022

STEP 8:

You can create your API Key by Apps > Generate API Key. While creation choose Application as **Standard Application**.

The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes the IBM logo and a user profile. The main content area is titled 'Browse API Keys' and contains a table of API keys. The table has columns for 'Key', 'Description', 'Role', and 'Expires'. There are 3 results listed. A 'Generate API Key' button is located in the top right corner. The bottom status bar shows '1 Simulation running'.

Key	Description	Role	Expires
a-3nw9vo-0xlraoqs69	Standard application	Standard Application	-
a-3nw9vo-jktbvs03xi	API Key for the device simulator	Standard Application	-
a-3nw9vo-vgs6wqzjcb	-	Standard Application	-

STEP 9:

You can create your own card by clicking by Boards > Create New Board.

The screenshot displays the IBM Watson IoT Platform dashboard. The browser's address bar shows the URL `3nw9vo.internetofthings.ibmcloud.com/dashboard/boards/`. The dashboard header includes the IBM Watson IoT Platform logo and a user profile for `ramyat.19ece@kongu.edu` with ID `3nw9vo`. A `+ Create New Board` button is located in the top right corner.

The main section is titled `Your boards` and features a sidebar with navigation icons. The boards are listed as follows:

Board Name	Card Count	Ownership
SMARTFARM	4 Cards	Owned by you
TEMPERATURE	No cards	Owned by you
USAGE OVERVIEW	3 Cards	Owned by you
RISK AND SECURITY OVERVIEW	4 Cards	Owned by you

Below the boards, there is a dashed box with a large `+` icon, labeled `Boards shared with you`. A status bar at the bottom right indicates `1 Simulation running`. The Windows taskbar at the bottom shows the system clock as 10:47 PM on 18-11-2022.

STEP 10:

By clicking the created card, where you can represent the data in different forms. If you don't have card you can create it by clicking add new card.

IBM App Deve xNode-RED : 15 xmycluster-free xFirewall AuthexIBM-EPBL/IBM xIBM-Project-2 xIBM xIoT-B7-1A3E (xIBM Watson Ic x

3nw9vo.internetofthings.ibmcloud.com/dashboard/boards/6a620464-6bc0-4c7a-9793-abc861d3099d

PlacementMailWhatsAppYouTubeLearning & Assess...GDB online Debug...LeetCodeSWAYAMEDA Edit code - EDA Pla...GeeksCodeChefInfyTQAICTE - SLAMicrostrip Patch An...

IBM Watson IoT Platform

smartfarm

Line chart

5 minutes

● Temperature ● Humidity

now

Device Type: farming

Events 1

New event type +

Event type name eventflow

Send

Schedule

1 Every Minute

Payload

Specify the event payload in the editor window or by uploading a CSV file.

```
0 {
1   "randomNumber": random(0, 100),
2   "Temperature": random(80, 150),
3   "Humidity": random(60, 110)
4 }
5
```

Upload a CSV file

Cancel Save

Project Report Doc....pdf

Show all

Windows taskbar with icons for File Explorer, Edge, Word, and others.

44% battery, 07:43 PM, 18-11-2022