

**Project Development Phase**  
**Delivery of Sprint 2**

Date	29 October 2022
Team ID	PNT2022TMID20329
Project Name	Project –Gas leakage monitoring and alerting system for industries

Step


IBM Cloud

cloud.ibm.com/login

Catalog

Cost estimator

Docs



# Log in to IBM Cloud

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

Sign in with

IBMId

1911028@nec.edu.in

Continue

[Forgot ID?](#)

☐ Remember ID

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Accept all

Required only



25°C Partly cloudy

ENG IN

8:47 PM

11/19/2022

6

Step

## 2: Logged in to IBM cloud account

The screenshot shows a web browser window with the URL `cloud.ibm.com/login`. The page features the IBM Cloud logo and a large blue abstract background. The login form includes a text input for the email address (pre-filled with `1911028@nec.edu.in`), a password input field with a toggle for visibility, and a blue "Log in" button. Navigation links for "Catalog", "Cost estimator", and "Docs" are in the top right. A cookie consent banner is at the bottom, with "Accept all" and "Required only" buttons. The Windows taskbar at the bottom shows various application icons and system status information like temperature and time.

IBM Cloud

Catalog Cost estimator Docs

Log in to IBM Cloud

[Forgot password?](#)

← 1911028@nec.edu.in

Password

Log in

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Accept all

Required only

25°C Partly cloudy ENG IN 8:48 PM 11/19/2022

## Step

### 3: Click on Catalog to search Internet Of Things

The screenshot displays the IBM Cloud dashboard interface. At the top, the browser 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 profile 'MOHANA PRIYAA M's ...'. A 'Create resource' button is prominently displayed in blue.

The main content area is titled 'Dashboard' and features a 'For you' section with a horizontal scroll of service tiles. The first tile, 'Build', is highlighted in blue and purple. Other tiles include:

- Build a web app with Watson Speech to Text**: Deploy a conversational interface compatible with any application, device, or channel. (Getting started, 15 min)
- Get Started with Watson Studio**: Get started with using AI and Cloud Object Storage in 15 minutes. (Popular, 2 hr)
- IBM Watson Internet of Things Platform**: Communicate with connected devices, monitor and analyze data in real time, connect your own IoT apps and add Watson AI to the solution. (Recommended, 2 min)
- Build a Virtual Private Cloud (VPC)**: Upgrade to a paid account to create your own protected space in the IBM Cloud. (Getting started, 7 min)
- Incorporate DevOps into your process**: Shorten releases, improve reliability, and stay ahead of the competition with IBM DevOps. (Recommended, 20 min)

Below the 'For you' section, there are four more tiles:

- News**: View all. Includes articles like 'Introducing Badges to IBM Cloud Certification' and 'Announcing IBM SevOne Network Performance Management Version 6.4'.
- Recent support cases**: View all.
- Planned maintenance**: View all.
- IBM Cloud status**: View all. Includes a world map visualization.

The bottom of the screen shows a Windows taskbar with various application icons and a system tray displaying weather information (25°C Partly cloudy) and the date/time (ENG IN 8:49 PM 11/19/2022).

Step

4: search for Internet of Things Platform and login to and finished further processes

The screenshot displays the IBM Cloud Catalog web application. The browser's address bar shows the URL `cloud.ibm.com/catalog`. The page header includes the IBM Cloud logo, a search bar, and navigation links for 'Catalog', 'Manage', and a user profile for 'MOHANA PRIYAA M's ...'. A secondary search bar is located below the header.

The main content area is titled 'Viewing 206 products'. On the left, a 'Category' sidebar lists various product categories with their respective counts: Recommended products (6), Compute (30), Containers (9), Networking (29), Storage (19), AI / Machine Learning (17), Analytics (10), Blockchain (1), Databases (28), Developer tools (25), Logging and monitoring (3), Migration (7), Integration (10), Internet of Things (1), Security (25), and Mobile (1). The 'Internet of Things' category is currently selected.

The product grid displays six items:

- Analytics Engine** (By IBM): Submit your Apache Spark applications as needed and customize the Spark runtimes to satisfy the requirements of your application. Features: Lite, Free, HIPAA Enabled, IAM-enabled, Service Endpoint Supported, IBM supported.
- AnonTech ViziVault Platform** (By Anon Technology, Inc.): Manage personal information as-a-service safely, securely, and in compliance with data privacy regulations using ViziVault. Features: Lite, Free, HIPAA Enabled, IAM-enabled, Third party supported.
- API Connect** (By IBM): An enterprise-grade platform for creating, securing, managing, sharing, monetizing, and analyzing custom APIs located on-premises and on the cloud. Features: Lite, Free, EU Supported, IAM-enabled, IBM supported.
- App Configuration** (By IBM): Centralized, in-flight configuration for web and mobile applications and distributed environments. Features: Lite, Free, IAM-enabled, Service Endpoint Supported, IBM supported.
- App Connect** (By IBM): Connect your applications, automate tasks, and improve productivity. Features: Lite, Free, IBM supported.
- App ID** (By IBM): User Authentication and User Profiles for your apps. Features: Lite, Free, EU Supported, Financial Services Validated, HIPAA Enabled, IAM-enabled, IBM supported.

The Windows taskbar at the bottom shows the system clock at 8:50 PM on 11/19/2022, along with weather information (25°C Partly cloudy) and various system icons.

Step

5: After clicking on Resource list select Internet of things platform and click on launch

Service Details - IBM Cloud

cloud.ibm.com/services/iotf-service/crm%3Av1%3Abluemix%3Apublic%3Aiotf-service%3Aeu-gb%3Aa%2F40f4cfff634fee88afb5e6302edbd5%3Aaa1936f0-5fdc-4cde-94d8-052e01640bf5%...

IBM Cloud

Search resources and products...

Catalog Manage MOHANA PRIYAA M's ...

Resource list /

# Internet of Things Platform-42

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	Non-Production	Production
<p>The Lite service plan provides a lightweight development environment to get you started with the connectivity capabilities of Watson IoT Platform.</p>	<p>The Non-Production service plan is a full-featured, fully-integrated offering that enables you to explore Watson IoT Platform to see how the service can fit into your IoT environment.</p>	<p>The Production service is a fully managed SaaS offering that enables you to manage and analyze enterprise IoT data.</p>
<ul style="list-style-type: none"><li>Free</li><li>200 MB data-transfer limit</li></ul>	<ul style="list-style-type: none"><li>Starts at \$500 per month</li><li>Capacity limit based on device type</li></ul>	<ul style="list-style-type: none"><li>Includes IBM Service &amp; Support</li><li>Pricing based on number of devices per</li></ul>

25°C Partly cloudy

ENG IN 8:52 PM 11/19/2022

Step

6: Refresh the page and the login page will appear.

The screenshot shows a web browser window with two tabs: "Service Details - IBM Cloud" and "IBM Watson IoT Platform". The address bar displays "internetofthings.ibmcloud.com". The page header includes the "IBM Watson IoT Platform" logo and a "Sign in" button. The main content area features a dark blue background with a central graphic. The graphic consists of white lines connecting various icons (cloud, factory, airplane, smartphone, and a person) to the central text "Equipment". To the left of "Equipment" is the text "Collect data from" and to the right is "and make value from it". Below the central text is a "Learn More" link with a downward-pointing chevron. At the bottom of the browser window, a Windows taskbar is visible with icons for various applications and a system tray showing the date and time as 8:53 PM on 11/19/2022. A "Cookie Preferences" button is also visible in the bottom right corner of the browser window.

Service Details - IBM Cloud x IBM Watson IoT Platform x +

internetofthings.ibmcloud.com

IBM Watson IoT Platform

Sign in

Collect data from

Equipment

and make value from it

Learn More

Cookie Preferences

25°C Partly cloudy ENG IN 8:53 PM 11/19/2022

Step

7: Then click on the profile and click on the bluemix with organization id

The screenshot displays the IBM Watson IoT Platform web interface. The browser's address bar shows the URL `internetofthings.ibmcloud.com`. The page header includes the text "IBM Watson IoT Platform" on the left and a user profile section on the right with the email `1911028@nec.edu.in` and the text "ID: (select org)".

The main content area features a dark blue background with a central graphic. The word "Things" is prominently displayed in the center. To the left of "Things" is the text "Collect data from" accompanied by icons of a cloud, a factory, and an airplane. To the right is the text "and make value from it" with icons of a person, a smartphone, and a server. Below the central "Things" text is a "Learn More" link with a downward-pointing chevron icon.

The Windows taskbar at the bottom of the screen shows various application icons, including the Start button, Edge browser, Mail, PowerPoint, Chrome, File Explorer, and Word. The system tray on the right indicates a temperature of 25°C, "Partly cloudy" weather, and the date and time: "ENG 8:56 PM IN 11/19/2022".



## Step

8: Then turn on device simulator and then create a random function for Temperature, Humidity and Gas Level.

The screenshot displays the IBM Watson IoT Platform interface. At the top, the header shows the platform name, a user profile with email 1911028@nec.edu.in and ID 5dzjyk, and an 'Add Device' button. Below the header, a navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A search bar labeled 'Search by Device ID' is present. On the right, a 'Device Simulator' toggle is turned on. The main content area shows a table of devices. One device, with ID 14072002 and status 'Connected', is selected. Below the table, a modal window titled 'Recent Events' is open, showing a list of events. The events table has columns for Event, Value, Format, and Last Received. The events listed are 'Data' events with JSON values containing distance and alert information, all received 'a few seconds ago'. At the bottom of the modal, there is a pagination control showing '1 of 1 page'.

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
14072002	Connected	IOT_GAS_LEAKAGE_MONITORING	Device	Nov 19, 2022 1:01 AM	

Event	Value	Format	Last Received
Data	{"Distance":89.98,"ALERT!!":"Distance less than ...	json	a few seconds ago
Data	{"Distance":89.98,"ALERT!!":"Distance less than ...	json	a few seconds ago
Data	{"Distance":90,"ALERT!!":"Distance less than 10...	json	a few seconds ago

