

## IBM Cloud Services

|              |   |
|--------------|---|
| Team ID      | PNT2022TMID11082  |
| Project Name | Project - SmartFarmer - IoT Enabled Smart Farming Application |

- Created The IBM Watson IOT Platform and a Device

The screenshot shows the IBM Cloud Catalog interface. The user is creating a new service named "Internet of Things Platform". The service is listed as "Free" and is located in Frankfurt. The "Lite" plan is selected, which includes up to 500 registered devices and a maximum of 200 MB of each data metric. The user has checked the "I have read and agree to the following license agreements" checkbox and is ready to "Create".

**Internet of Things Platform**

This service is the hub of all things IBM IoT, it is where you can set up and manage your connected devices so that your apps can access their live and historical data.

**Create**    **About**

Type: Service  
Provider: IBM  
Last updated: 08/15/2022  
Category: Internet of Things  
Compliance: IAM-enabled  
Location: Frankfurt, London, Dallas, Washington DC

Select a location: Frankfurt (eu-de)

Select a pricing plan: [United States](#)

| Plan | Features  | Pricing |
|------|---|---------|
| Lite | Includes up to 500 registered devices, and a maximum of 200 MB of each data metric<br>Maximum of 500 registered devices<br>Maximum of 500 application bindings<br>Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed | Free    |

I have read and agree to the following license agreements:  
[Terms](#)

**Create**    **Add to estimate**

Resource list / Internet of Things Platform-w1 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

The Lite service plan provides a lightweight development environment to get you started with the connectivity capabilities of Watson IoT Platform.

- Free
- 200 MB data-transfer limit
- AND annotation limit/limits

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.

- Starts at \$500 per month
- Capacity limit based on device type
- Optional Analytics Services and Blockchain

The Production service is a fully managed SaaS offering that enables you to manage and analyze enterprise IoT data.

- Includes IBM Service & Support
- Pricing based on number of devices per device type

This screenshot shows the IBM Watson IoT Platform landing page. It features a central diagram of a central node connected to various peripheral components like clouds and sensors. Below this is a section titled 'IBM Watson IoT Platform Journey' with three stages: 'Lite', 'Non-Production', and 'Production'. Each stage has a brief description and a list of features. A sidebar on the left is titled 'Manage' and includes 'Plan' and 'Connections' options. Top navigation includes 'Resource list / Internet of Things Platform-w1', 'Active', 'Add tags', 'Details', and 'Actions...'.

IBM Watson IoT Platform Sign in

Collect data from

Buildings

and make value from it

Learn More

Cookie Preferences

This screenshot shows the IBM Watson IoT Platform landing page with a dark background. It features a large central graphic of a building with various pipes and sensors attached to its exterior. Text overlaid on the graphic reads 'Collect data from' on the left and 'Buildings' in large letters in the center, followed by 'and make value from it' on the right. At the bottom, there are 'Learn More' and 'Cookie Preferences' buttons. The top right corner has a 'Sign in' button.

The screenshot shows the 'Browse Devices' page of the IBM Watson IoT Platform. On the left is a dark sidebar with various icons. At the top, there are navigation links: 'Browse', 'Action', 'Device Types', 'Interfaces', and a blue 'Add Device' button. Below these are two tabs: 'All Devices' (selected) and 'Diagnose'. A descriptive text block 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.' A search bar labeled 'Search by Device ID' is present. A table displays device details:

|   | Device ID | Status       | Device Type | Class ID | Date Added            |
|---|-----------|--------------|-------------|----------|-----------------------|
| > | 1234      | Disconnected | abcd        | Device   | Nov 11, 2022 10:00 AM |

Below the table are buttons for 'Items per page' (set to 50), a dropdown for page selection, and a message '1 Simulation running'. On the right, there's a 'Device Simulator' toggle switch, a refresh icon, and a help icon.

This screenshot shows the same interface as above, but with a detailed view of the device '1234' from the previous screenshot. The device row in the table is highlighted. A modal window titled 'Device Type: abcd' is open on the right, showing event configuration details:

- Events**: 1 event type named 'event\_1' is listed. There are buttons for 'New event type' and 'Send'.
- Schedule**: Set to '1' and 'Every Minute'.
- Payload**: A code editor shows the event payload: 

```
0 <
1 "randomNumber": random(0, 100),
2 "temp": random(90,110),
3 "hum": random(60,100)
4 >
5 }
```
- Logs**: A section with a 'Upload a CSV file' button.

The screenshot shows a device management interface with a sidebar on the left containing various icons for device types and actions. The main area displays a device detail view for a device with ID 1234. The device is currently Disconnected. The interface includes tabs for Identity, Device Information, Recent Events, State, and Logs. The Recent Events tab is active, showing a table of recent events. The table has columns for Event, Value, Format, and Last Received. The data in the table is as follows:

| Event   | Value                                   | Format | Last Received     |
|---------|---|--------|-------------------|
| event_1 | {"randomNumber":51,"temp":97,"hum":60}  | json   | a few seconds ago |
| event_1 | {"randomNumber":68,"temp":101,"hum":94} | json   | a minute ago      |
| event_1 | {"randomNumber":79,"temp":95,"hum":66}  | json   | 2 minutes ago     |
| event_1 | {"randomNumber":66,"temp":107,"hum":84} | json   | 3 minutes ago     |
| event_1 | {"randomNumber":67,"temp":109,"hum":67} | json   | 3 minutes ago     |

A message at the bottom states "1 Simulation running".