

Team ID	PNT2022TMID21687
Project Name	Smart Farmer-IOT Enabled smart Farming application
Team member	Hariprasath.T, Porselvi.S, muthusathish.p
Team lead	Rajalakshmi V

CREATE THE IBM WATSON IOT PLATFORM AND A DEVICE

STEP 1:

The screenshot shows the IBM Cloud 'Create' page for the Internet of Things Platform. The user is logged in as 'Rajalakshmi V's Account'. The page is divided into a left sidebar, a main content area, and a right summary panel.

Left Sidebar:

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

Main Content Area:

- Select a location:** A dropdown menu is set to 'London (eu-gb)'.
- Select a pricing plan:** A table displays available plans. The 'Lite' plan is selected.

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

Right Summary Panel:

- Internet of Things Platform** (Free)
- Location: London
- Plan: Lite
- Service name: Internet of Things Platform-Ip
- Resource group: Default

Warning Message:

Existing Lite plan instance
You can have only 1 Lite plan instance of this service per resource group. [Delete](#) your current Lite plan instance in Default resource group to create a new one, or [view the existing instance.](#)

License Agreement:

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

Buttons: 'Create' (disabled), 'Add to estimate'.

STEP 2:

The screenshot shows the same IBM Cloud 'Create' page for the Internet of Things Platform, but for a different user: 'Hariprasath T's Account'. The layout is identical to Step 1, with the 'Lite' plan selected.

Left Sidebar:

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

Main Content Area:

- Select a location:** A dropdown menu is set to 'London (eu-gb)'.
- Select a pricing plan:** A table displays available plans. The 'Lite' plan is selected.

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

Right Summary Panel:

- Internet of Things Platform** (Free)
- Location: London
- Plan: Lite
- Service name: Internet of Things Platform-63
- Resource group: Default

License Agreement:

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

Buttons: 'Create' (active/blue), 'Add to estimate'.

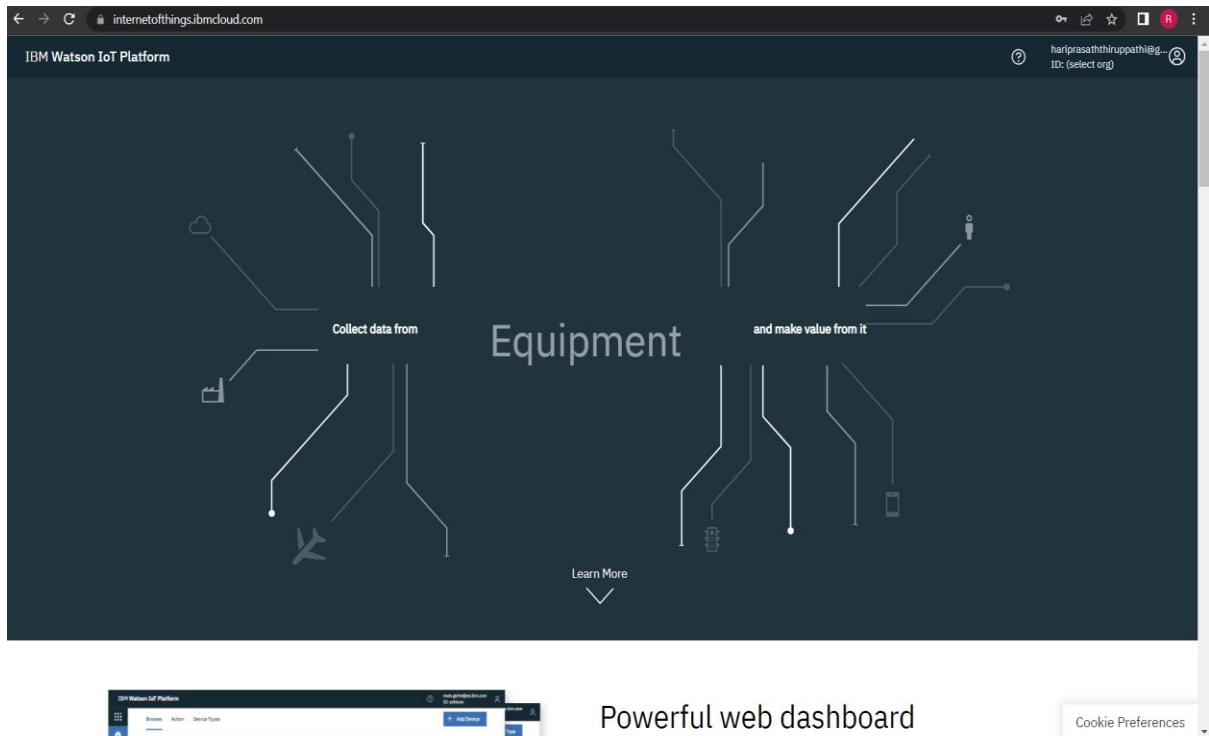
STEP 3

The screenshot shows the IBM Cloud interface for the 'Internet of Things Platform-5h' resource. The left sidebar contains a 'Manage' section with 'Plan' and 'Connections' options. The main content area features a large graphic of a central square with four rounded corners and a small circle in the center, connected to four lines. To the right of this graphic is the heading 'Let's get started with IBM Watson IoT Platform' followed by the text 'Securely connect, control, and manage devices. Quickly build IoT applications that analyze data from the physical world.' Below this text are two buttons: 'Launch' and 'Docs'. Further down, a section titled 'Ready for the next level?' introduces the 'IBM Watson IoT Platform Journey'. This journey is represented by a horizontal line with three circular markers. The first marker is checked and labeled 'Lite', with a description: 'The Lite service plan provides a lightweight development environment to get you started with the connectivity capabilities of Watson IoT Platform.' and a bullet point '• Free'. The second marker is empty and labeled 'Non-Production', with a description: '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.' and a bullet point '• Starts at \$500 per month'. The third marker is empty and labeled 'Production', with a description: 'The Production service is a fully managed SaaS offering that enables you to manage and analyze enterprise IoT data.' and a bullet point '• Includes IBM Service & Support'. A blue chat bubble icon is visible in the bottom right corner.

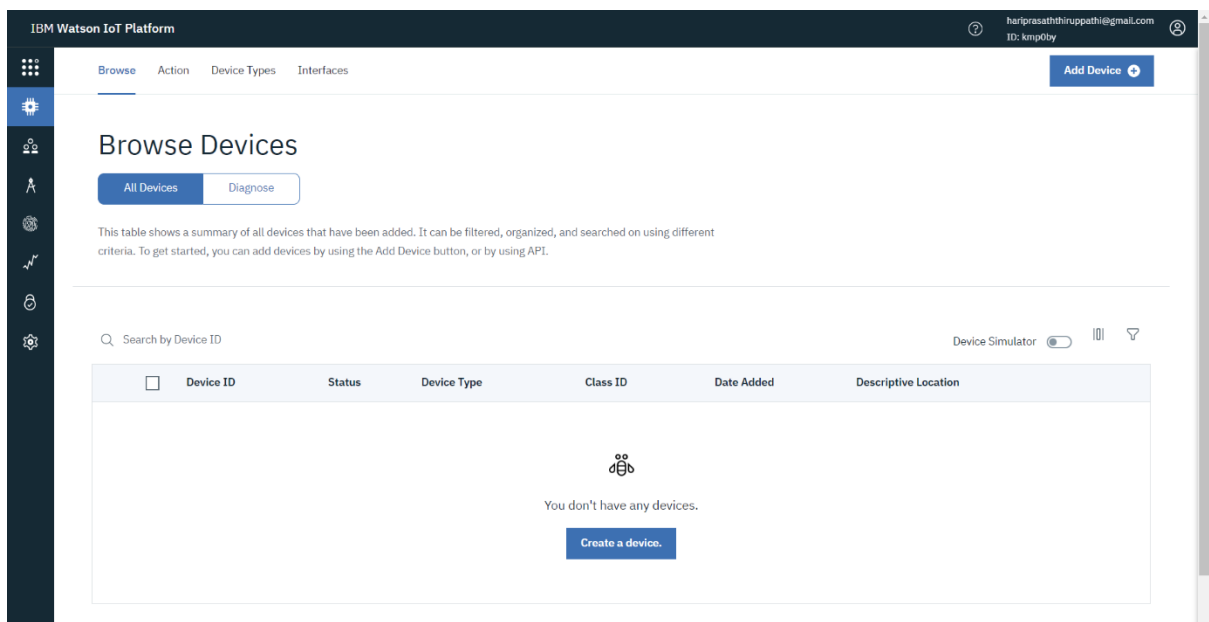
STEP 4

The screenshot displays the IBM Watson IoT Platform dashboard. The top navigation bar includes the 'IBM Watson IoT Platform' logo, a search icon, and a 'Sign in' button. The main content area features a large, stylized graphic with the word 'Equipment' in the center. To the left of 'Equipment' is the text 'Collect data from' and to the right is 'and make value from it'. The graphic consists of various icons (cloud, factory, airplane, car, etc.) connected by lines to the central 'Equipment' text. Below this graphic is a 'Learn More' link with a downward arrow. At the bottom of the dashboard, there is a section titled 'Powerful web dashboard' with a 'Cookie Preferences' button on the right. A small inset image shows a preview of the dashboard's user interface.

STEP 5



STEP 6



STEP 7

IBM Watson IoT Platform

hariprasaththirupathi@gmail.com
ID: kmp0by

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 NODEMCU

Device ID 12345

Cancel Next

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

STEP 8

IBM Watson IoT Platform

hariprasaththirupathi@gmail.com
ID: kmp0by

Browse Action Device Types Interfaces

Add Device

Identity Device Information Security Summary

Verify that the following information is correct then select Finish

Device Type NODEMCU

Device ID 12345

Serial Number 43251

Model ESP8226

Description NodeMCU is a IoT Module based on ESP8266 wifi Module. NodeMCU uses Lua Scripting language and is an open source Internet of Things (IoT) platform. This modules has CH340g USB to TTL IC.

View Metadata

Security Token To be generated

STEP 9

IBM Watson IoT Platform

Device Drilldown - 12345

← Back

Device Credentials

- Connection Information
- Recent Events
- State
- Device Information
- Metadata
- Diagnostics
- Connection Logs
- Device Actions

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.

Organization ID	kmp0by
Device Type	NODEMCU
Device ID	12345
Authentication Method	use-token-auth
Authentication Token	i6X88if_y3u(DWT7IX

⚠ Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the device to generate a new authentication token.

[Find out how to add these credentials to your device](#)

Connection Information

Basic connection information about this device.

STEP 10

IBM Watson IoT Platform

Device Drilldown - 12345

← Back

Device Credentials

- Connection Information
- Recent Events
- State
- Device Information
- Metadata
- Diagnostics
- Connection Logs

Connection Information

Basic connection information about this device.

Device ID	12345
Device Type	NODEMCU
Date Added	Nov 9, 2022 11:21 PM
Added By	hariprasaththiruppathi@gmail.com
Connection Status	Disconnected