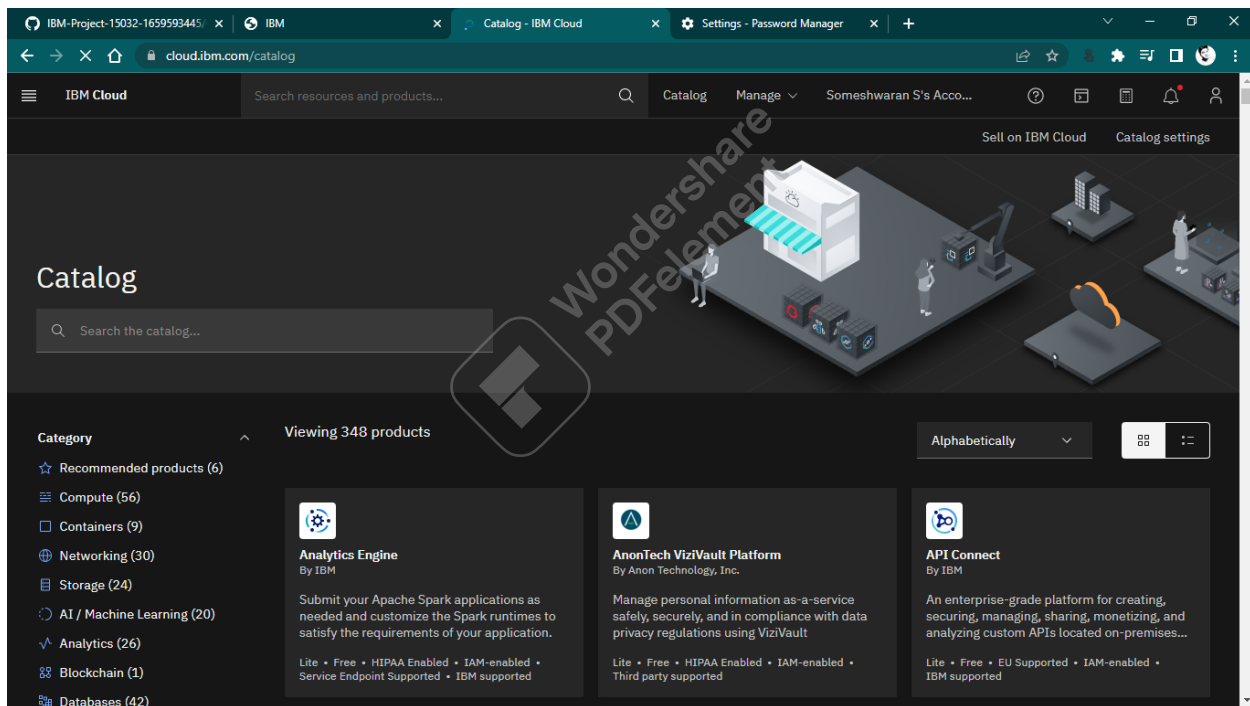


Creating IBM Watson IoT Platform and Device

<u>Team ID</u>	<u>PNT2022TMID45881</u>
<u>Project Name Project</u>	<u>IOT Based Safety Gadget for Child Safety Monitoring&Notification</u>

Step : 1 :



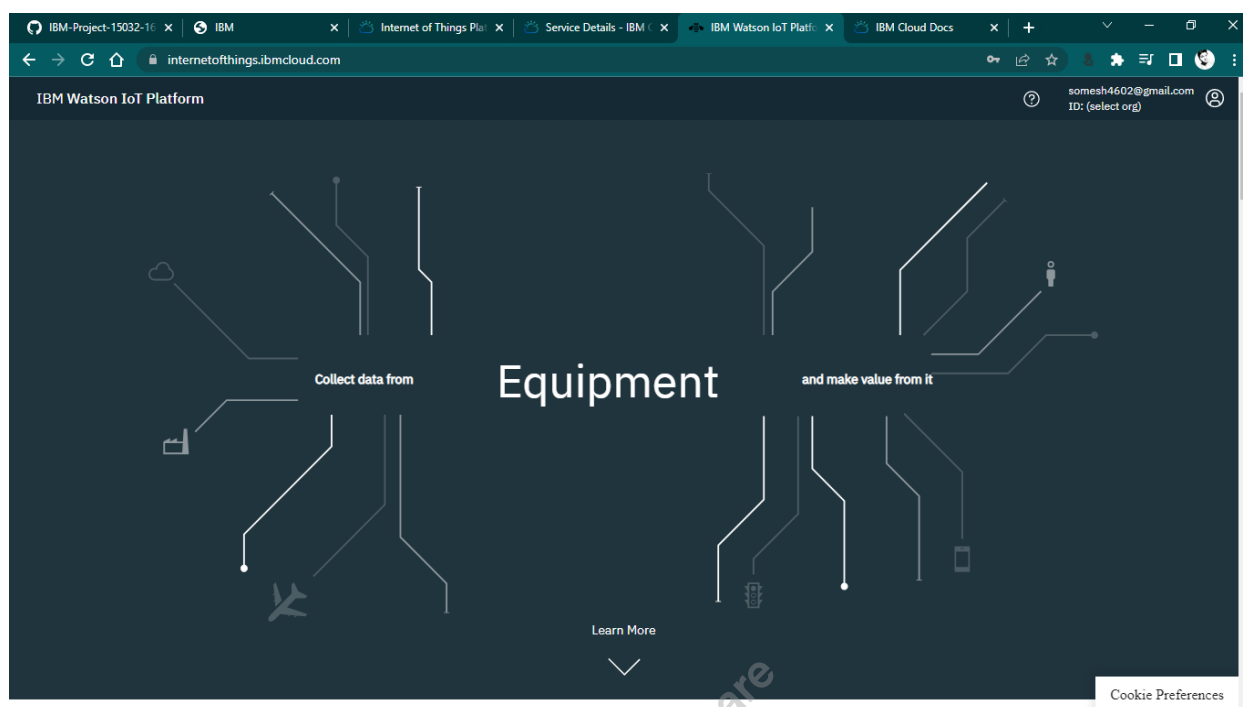
Step : 2 :

The screenshot shows the IBM Cloud catalog page for the 'Internet of Things Platform' service. The page is in a dark theme. On the left, there's a sidebar with 'Compliance' and 'IAM-enabled' sections. The main content area displays the 'Lite' plan, which includes up to 500 registered devices and a maximum of 200 MB of each data metric. The plan is free. On the right, there's a 'Summary' section showing the service name, location (Frankfurt), plan (Lite), and resource group (Default). Below the plan details, there's a 'Configure your resource' section with fields for 'Service name' (Internet of Things Platform-f1), 'Select a resource group' (Default), 'Tags' (Examples: env:dev, version-1), and 'Access management tags' (Examples: access:dev, projversion-1). At the bottom right, there are buttons for 'Create' and 'Add to estimate', along with a checkbox for 'I have read and agree to the following license agreements' and a link to 'Terms'.

Step : 3 :

The screenshot shows the IBM Cloud 'Internet of Things Platform-p0' resource page. The page is in a dark theme. The top navigation bar includes 'IBM Cloud', 'Search resources and products...', 'Catalog', 'Manage', and 'Someshwaran S's Acco...'. The main content area features a large blue icon representing the IoT platform. Below the icon, there's a section titled 'Let's get started with IBM Watson IoT Platform' with a 'Launch' button and a 'Docs' button. Further down, there's a section titled 'Ready for the next level?' with a progress bar showing three stages: 'Lite', 'Non-Production', and 'Production'. The 'Lite' stage is currently selected, and it includes a description of the service plan. The 'Non-Production' and 'Production' stages are also described. On the left side, there's a sidebar with 'Manage', 'Plan', and 'Connections' sections.

Step : 4 :



Step : 5 :

The screenshot shows the "Browse Devices" page in the IBM Watson IoT Platform. The browser address bar displays "vvi5vc.internetofthings.ibmcloud.com/dashboard/devices/browse". The page has a dark blue sidebar with navigation icons. The main content area has a header with "Browse", "Action", "Device Types", and "Interfaces" tabs, and an "Add Device" button. Below the header is the "Browse Devices" section, which includes a "All Devices" button and a "Diagnose" button. A descriptive text 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." Below this is a search bar labeled "Search by Device ID". To the right of the search bar is a "Device Simulator" toggle switch. The main content is a table with the following data:

Device ID	Status	Device Type	Class ID	Date Added
12345	Disconnected	NodeMCU	Device	Oct 20, 2022 5:05 PM

At the bottom of the table, it says "Items per page 50 | 1-1 of 1 item" and "1 of 1 page".

Step : 6 :

The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform. The browser address bar indicates the URL: `vyi5vc.internetofthings.ibmcloud.com/dashboard/devices/browse/add`. The user is logged in as `somesh4602@gmail.com` with ID `vyi5vc`. The wizard has four steps: Identity, Device Information, Security, and Summary. The 'Identity' step is currently active, indicated by a blue circle and the word 'Identity' in blue. Below the progress bar, the instruction reads: 'Select a device type for the device that you are adding and give the device a unique ID.' There are two input fields: 'Device Type' with the value 'NodeMCU' and 'Device ID' with the value '12345'. At the bottom right of the form, there are 'Cancel' and 'Next' buttons. The text 'Browse Devices' is visible at the bottom of the screen.

Step : 7 :

The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform, now at Step 7: Device Information. The 'Device Information' step is active, indicated by a blue circle and the text 'Device Information' in blue. The instruction reads: 'You can modify the default device information and enter more information about the device for identification purposes.' The form is divided into two columns of input fields. The left column contains: 'Serial Number' (Enter Serial Number), 'Model' (Enter Model), 'Description' (Enter Description), and 'Hardware Version' (Enter Hardware Version). The right column contains: 'Manufacturer' (Enter Manufacturer), 'Device Class' (Enter Device Class), 'Firmware Version' (Enter Firmware Version), and 'Descriptive Location' (Enter Descriptive Location). At the bottom left of the form, there is an 'Add Metadata' button with a plus icon. At the bottom right, there are 'Back' and 'Next' buttons.

Step : 8 :

IBM Watson IoT Platform

someesh4602@gmail.com
ID: vvi5vc

Browse Action Device Types Interfaces

Add Device

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 of 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

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 : 9 :

IBM Watson IoT Platform

someesh4602@gmail.com
ID: vvi5vc

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

[View Metadata](#)

Security Token
12345678

[Back](#) [Finish](#)

Browse Devices

All Devices Diagnose

Step : 10 :

The screenshot shows the IBM Watson IoT Platform interface. The browser address bar displays the URL: `vyi5vc.internetofthings.ibmcloud.com/dashboard/devices/drilldown/NodeMCU:12345?returnTo=/devices/browse`. The page title is "Device Drilldown - 12345". On the left, a sidebar menu lists various options: Device Credentials, Connection Information, Recent Events, State, Device Information, Metadata, Diagnostics, Connection Logs, and Device Actions. The main content area is titled "Device Credentials" and contains the following information:

Organization ID	vyi5vc
Device Type	NodeMCU
Device ID	12345
Authentication Method	use-token-auth
Authentication Token	12345678

Below the table, a warning icon and text state: "Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the device to generate a new authentication token." A link "Find out how to add these credentials to your device" is also present.

Step : 11 :

The screenshot shows the IBM Watson IoT Platform interface. The browser address bar displays the URL: `vyi5vc.internetofthings.ibmcloud.com/dashboard/devices/browse`. The page title is "IBM Watson IoT Platform". The top navigation bar includes "Browse", "Action", "Device Types", and "Interfaces". A "Add Device" button is visible. Below the navigation bar, a table lists the devices. The table has columns: Device ID, Status, Device Type, Class ID, and Date Added. The first row shows a device with ID 12345, Status Disconnected, Device Type NodeMCU, Class ID Device, and Date Added Nov 1, 2022 1:16 PM. Below the table, a sidebar menu lists various options: Identity, Device Information, Recent Events, State, and Logs. The main content area is titled "Device List" and contains the following information:

Device ID	12345
Device Type	NodeMCU
Date Added	Nov 1, 2022 1:16 PM
Added By	somesh4602@gmail.com
Connection Status	Disconnected

At the bottom, a footer indicates "Items per page 50" and "1 of 1 page".