

Team ID PNT2022TMID17406

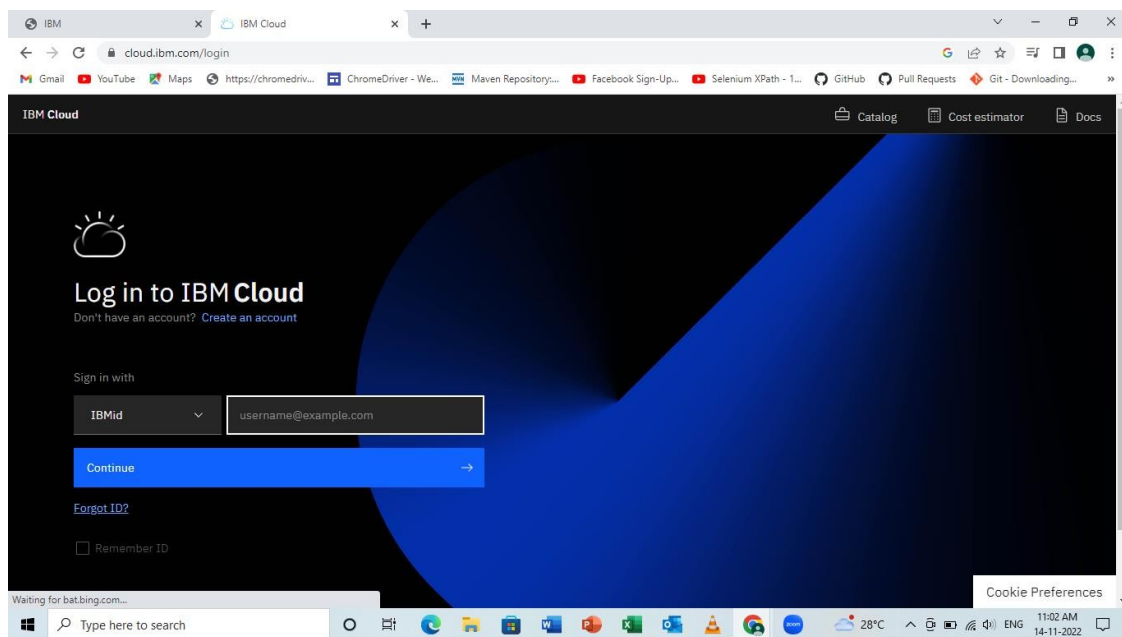
CREATE IBM WATSON IOT PLATFORM AND DEVICE

AIM:

To create the IBM Watson IoT platform and device.

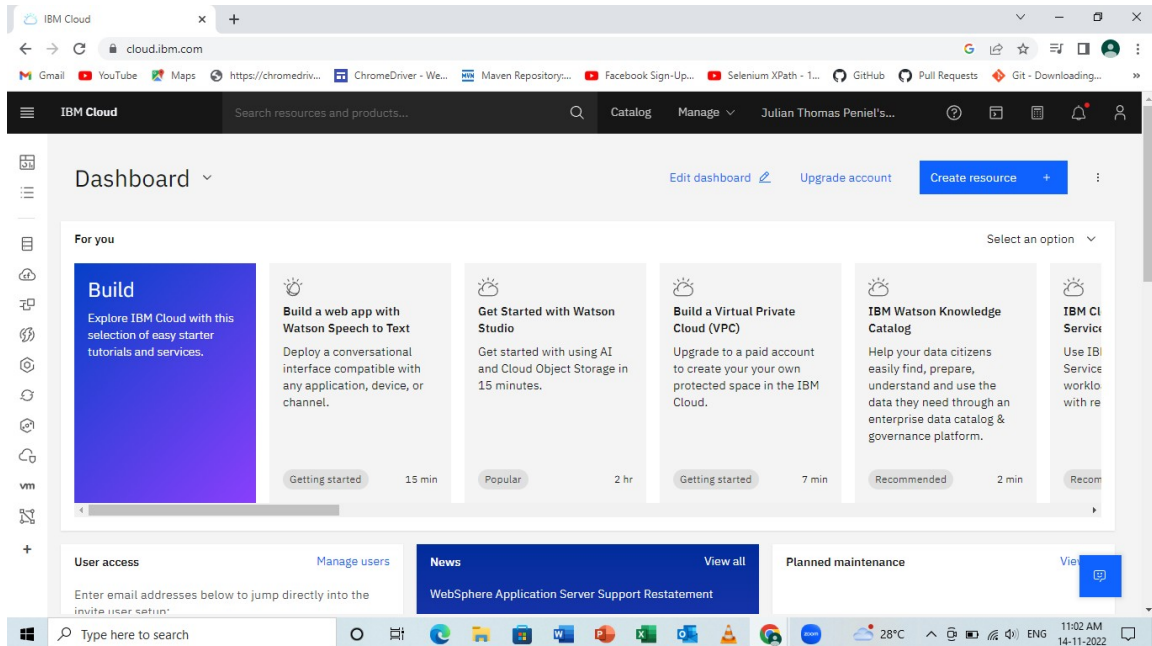
STEPS:

1. First create an IBM cloud account with IBM id and a password.

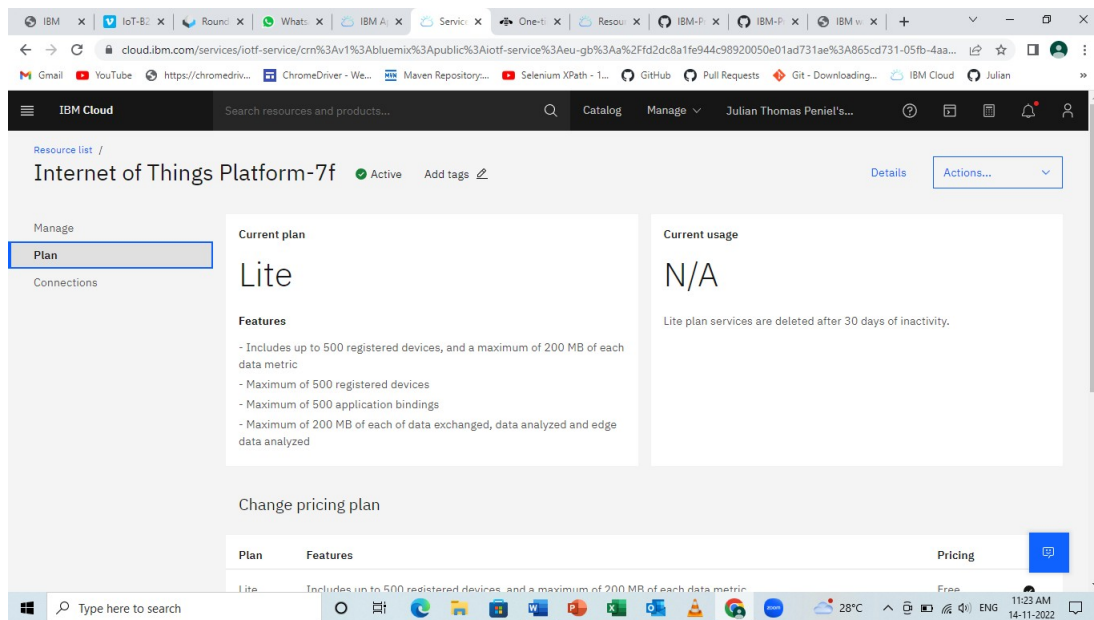


2. Home page of IBM cloud.

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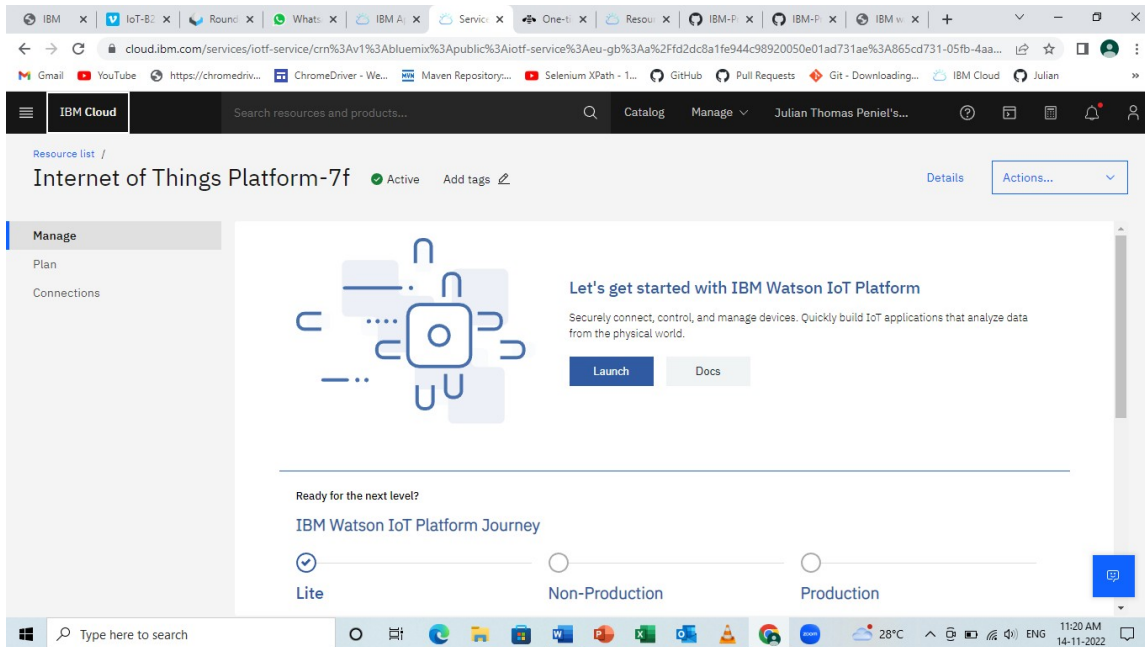


3. Internet of Things Platform Child safety will be created, where there are different options like manage, plan, and connection.

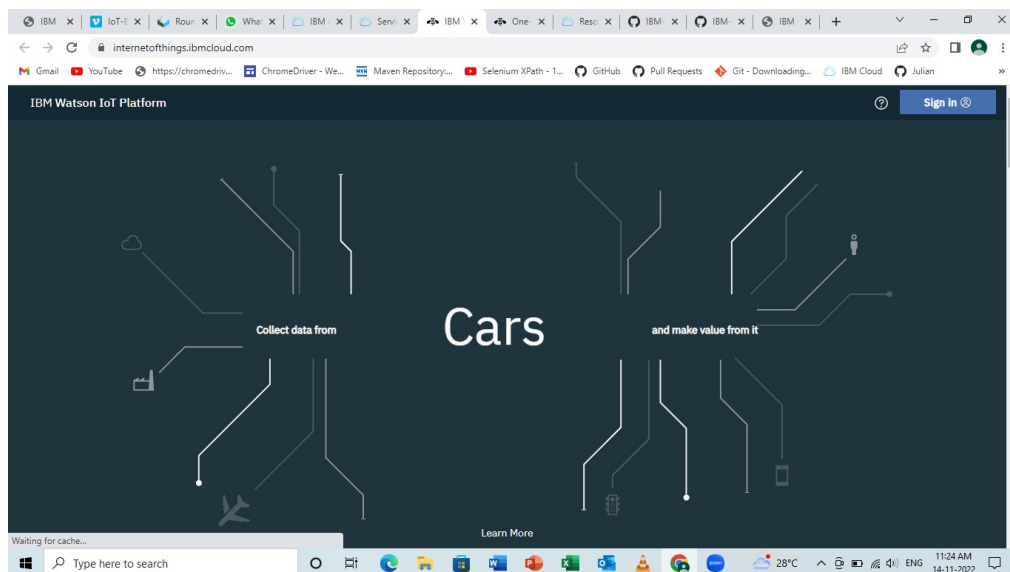


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4. Clicking on the launch button in the manage tab, it will open to this.



5. Enter the details to sign in to the Watson Cloud to create a device.



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Log in to IBM

IBMId [Forgot IBMId?](#)

310819106036@smartinternz.com

☒ Remember me ⓘ

[Continue](#)

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

Need help? [Contact the IBMId help desk](#)

Contact Privacy Terms of use Accessibility Cookie preferences

Powered by IBM Security Verify

6. Once logged in the name will be displayed and it goes back to the first page.

IBM Watson IoT Platform

310819106036@smartinternz.com ID: (select org)

Collect data from

Cars

and make value from it

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For more information, please review your [Cookie preferences](#) options and IBM's [privacy statement](#).

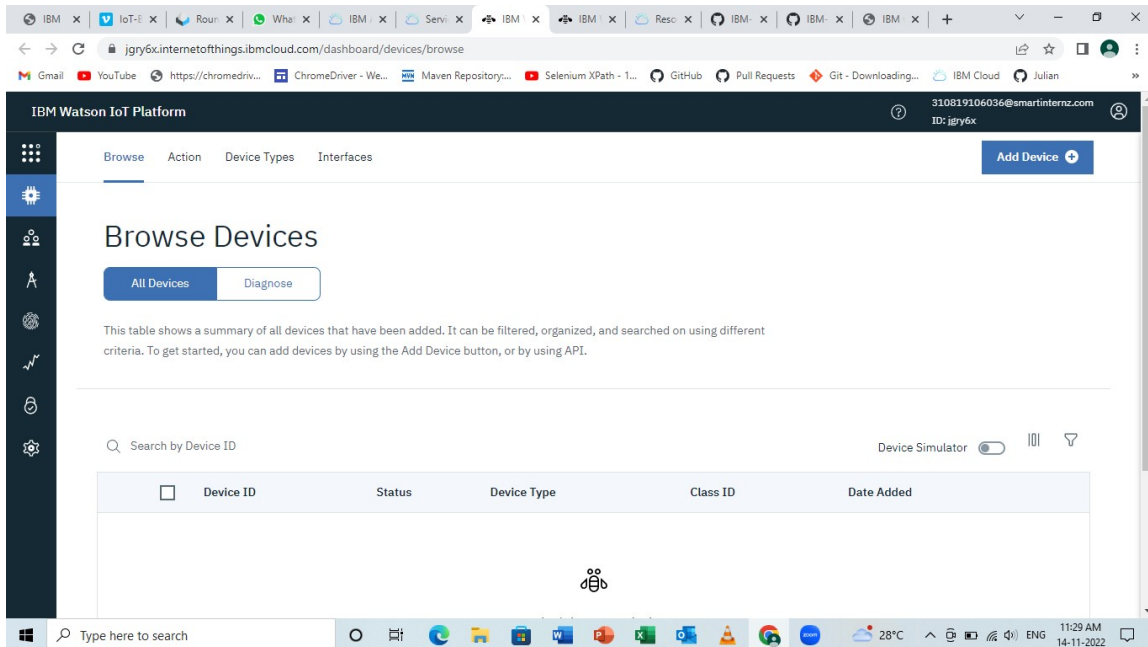
To provide a smooth navigation, your cookie preferences will be shared across the IBM web domains listed [here](#).

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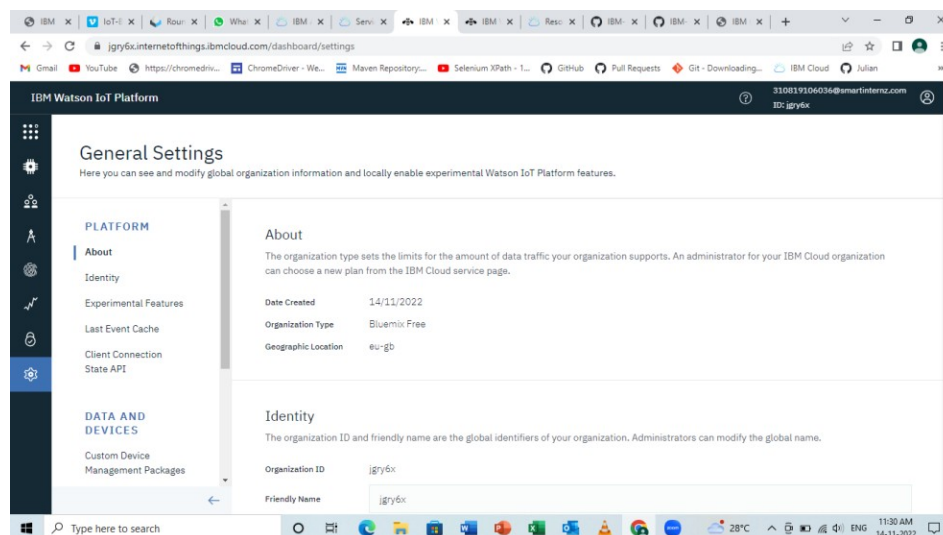
[Required only](#)

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7. And again clicking on the launch button will open this tab, the device will help in the creation of the devices, the addition of devices, and the display of details of the devices.

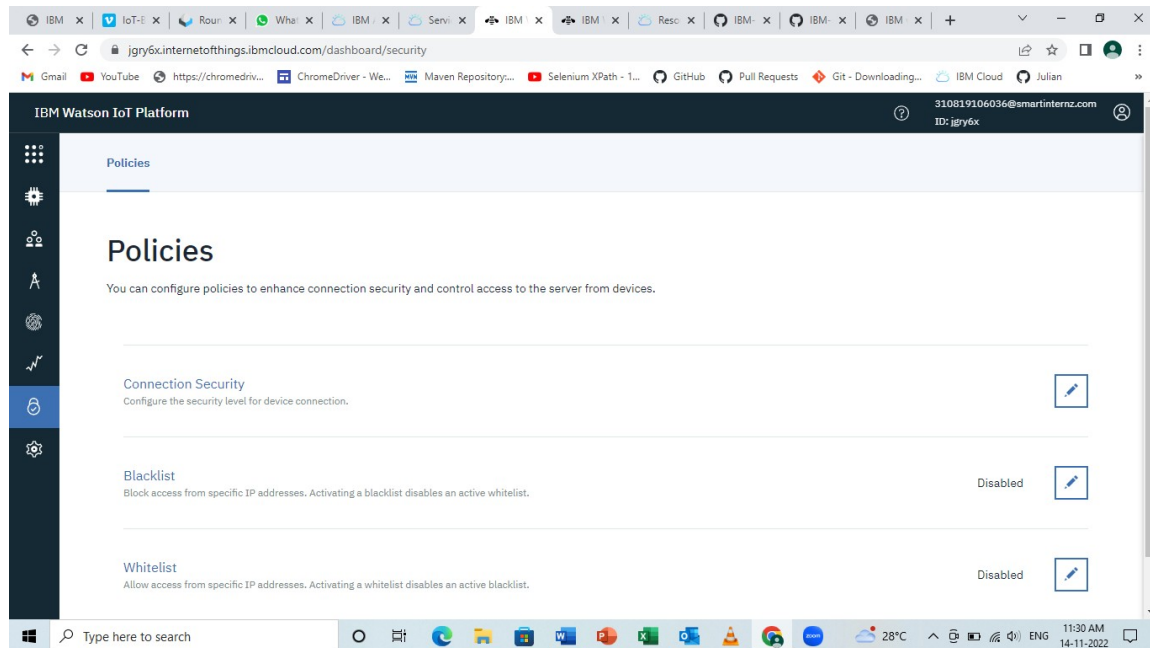


8. The setting tab is used to change the general setting if needed for the project.

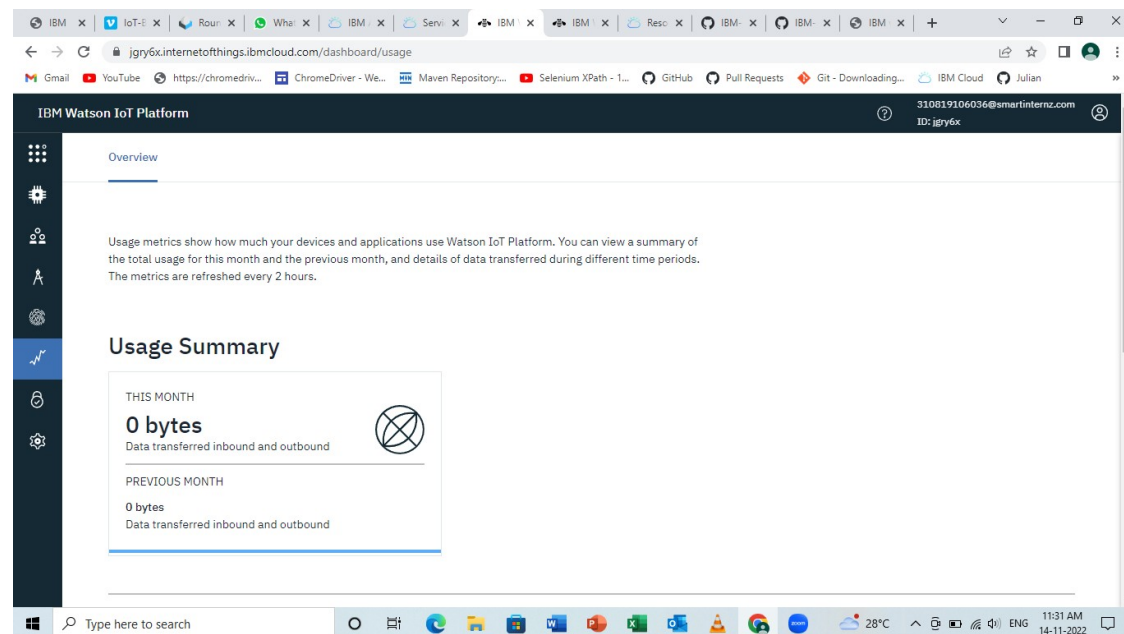


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9. the security tab we can choose the type of security connection and can change according to specification.



10. Usage gives the summary of how many bytes are used between the devices and the IBM cloud.



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11. The member tab is add the teams members to work in the platform.

The screenshot shows the 'Browse Members' page in the IBM Watson IoT Platform. The page has a dark sidebar with navigation icons. The main content area has a header 'Browse' and a '+ Add Members' button. Below the header is a search bar with the placeholder 'Type the member email to search for'. A table below the search bar shows a summary of members. The table has columns: Email Address, Name, Role, Added By, and Expires. There is one result listed: 310819106036@smartinternz..., 310819106036@smar..., Administrator, -, and -. The page footer shows a search bar and system information like 28°C and 11:32 AM 14-11-2022.

| Email Address | Name | Role | Added By | Expires |
|------------------------------|----------------------|---------------|----------|---------|
| 310819106036@smartinternz... | 310819106036@smar... | Administrator | - | - |

12. This tab is used when you want to connect to some other platform and to integrate with other services.

The screenshot shows the 'Browse API Keys' page in the IBM Watson IoT Platform. The page has a dark sidebar with navigation icons. The main content area has a header 'Browse' and a '+ Generate API Key' button. Below the header is a search bar with the placeholder 'Type the app description to search for'. A table below the search bar shows a summary of API keys. The table has columns: Key, Description, Role, and Expires. There are 0 results listed. Below the table is a bee icon and the text 'There are no API Keys'. The page footer shows a search bar and system information like 28°C and 11:32 AM 14-11-2022.

| Key | Description | Role | Expires |
|-----------|-------------|------|---------|
| 0 results | | | |

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13. Click on the device tab and click on the add device button, then give the device type and device id and click next.

The screenshot shows the IBM Watson IoT Platform interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. The 'Add Device' wizard is displayed with a progress bar showing four steps: Identity (selected), Device Information, Security, and Summary. Below the progress bar, a message states: 'Select a device type for the device that you are adding and give the device a unique ID.' The 'Device Type' field contains 'Nodemcu' and the 'Device ID' field contains '199795'. At the bottom right of the wizard, there are 'Cancel' and 'Next' buttons. The browser's address bar shows the URL 'jgry6x.internetofthings.ibmcloud.com/dashboard/devices/browse/add'. The Windows taskbar at the bottom shows the search bar and various application icons, with the system clock indicating 11:33 AM on 14-11-2022.

IBM Watson IoT Platform

310819106036@smartinternz.com
ID: jgry6x

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 199795

Cancel Next

Type here to search

28°C ENG 11:33 AM 14-11-2022

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14. This page to enter extra details and of the hardware.

The screenshot shows the 'Add Device' page in the IBM Watson IoT Platform. The progress bar indicates four steps: Identity, Device Information (current), Security, and Summary. The 'Device Information' section contains the following fields:

| Field | Value |
|----------------------|----------------------------|
| Serial Number | Enter Serial Number |
| Model | Enter Model |
| Description | Enter Description |
| Hardware Version | Enter Hardware Version |
| Manufacturer | Enter Manufacturer |
| Device Class | Enter Device Class |
| Firmware Version | Enter Firmware Version |
| Descriptive Location | Enter Descriptive Location |

Below the fields is a button labeled 'Add Metadata'.

15. Clicking on next it goes to the summary of the device then click finish.

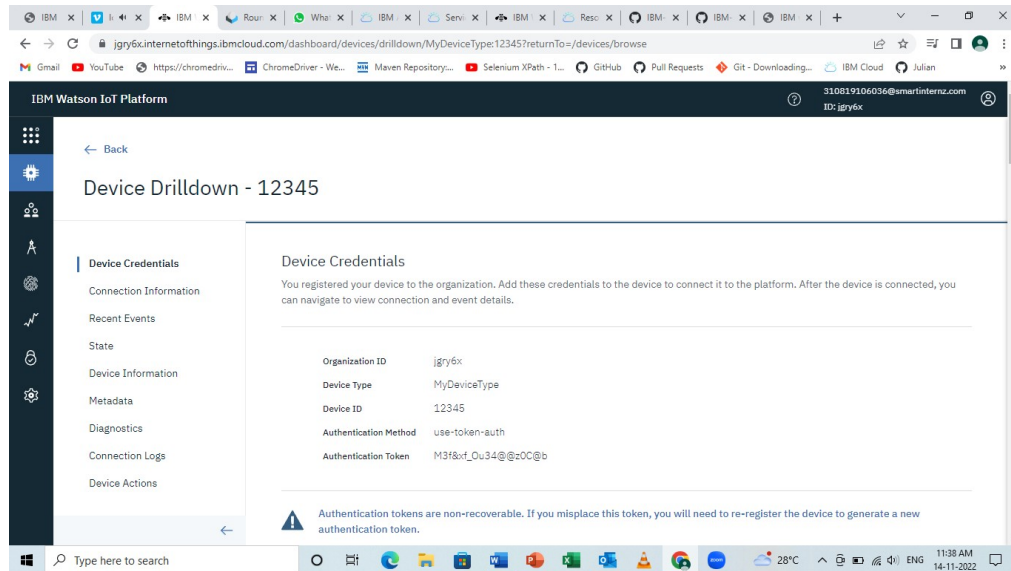
The screenshot shows the 'Add Device' page in the IBM Watson IoT Platform, now at the 'Summary' step. The progress bar shows four steps: Identity, Device Information, Security, and Summary (current). The 'Summary' section displays the following information:

| Field | Value |
|----------------|-----------------|
| Device Type | MyDeviceType |
| Device ID | 12345 |
| Security Token | To be generated |

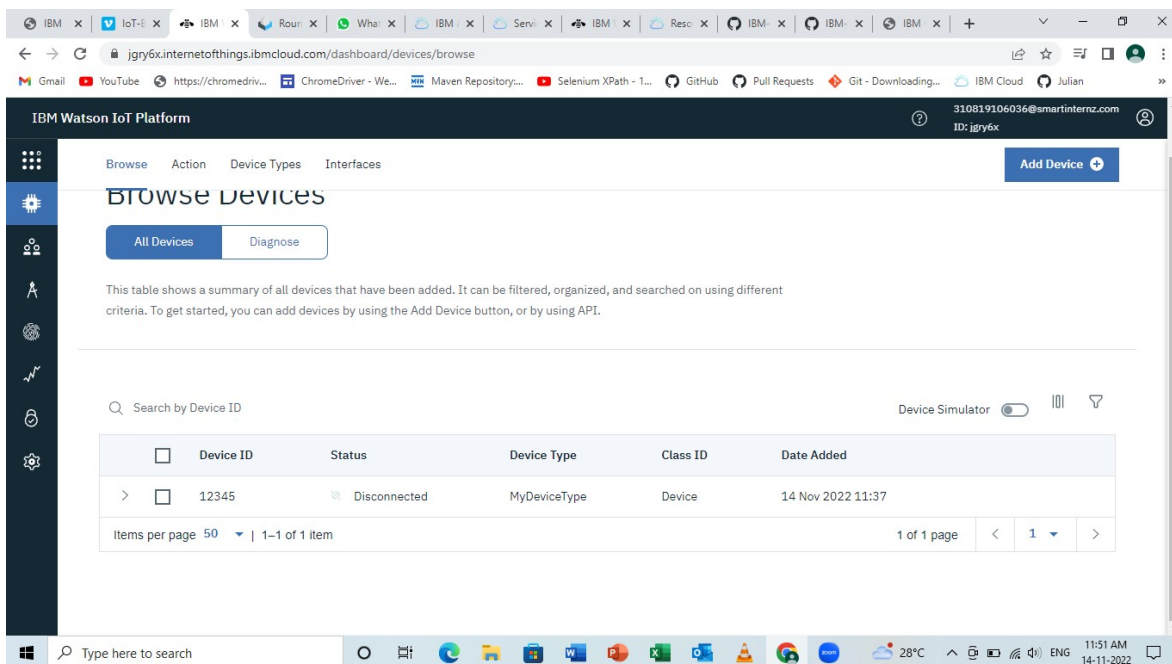
Below the summary information is a button labeled 'View Metadata'. At the bottom right of the page are two buttons: 'Back' and 'Finish'.

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16. The device credentials will be displayed with all the details.



17. Clicking on the device tab we can now see the added device. Clicking on it will display the other details.



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The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes links for Browse, Action, Device Types, and Interfaces. A search bar is present with the text "Search by Device ID". The main content area displays a table of devices. The first device listed is a NodeMCU with ID 199795, which is disconnected. Below the table, there is a detailed view of the selected device, showing its identity, device information, recent events, state, and logs. The device information section includes the following details:

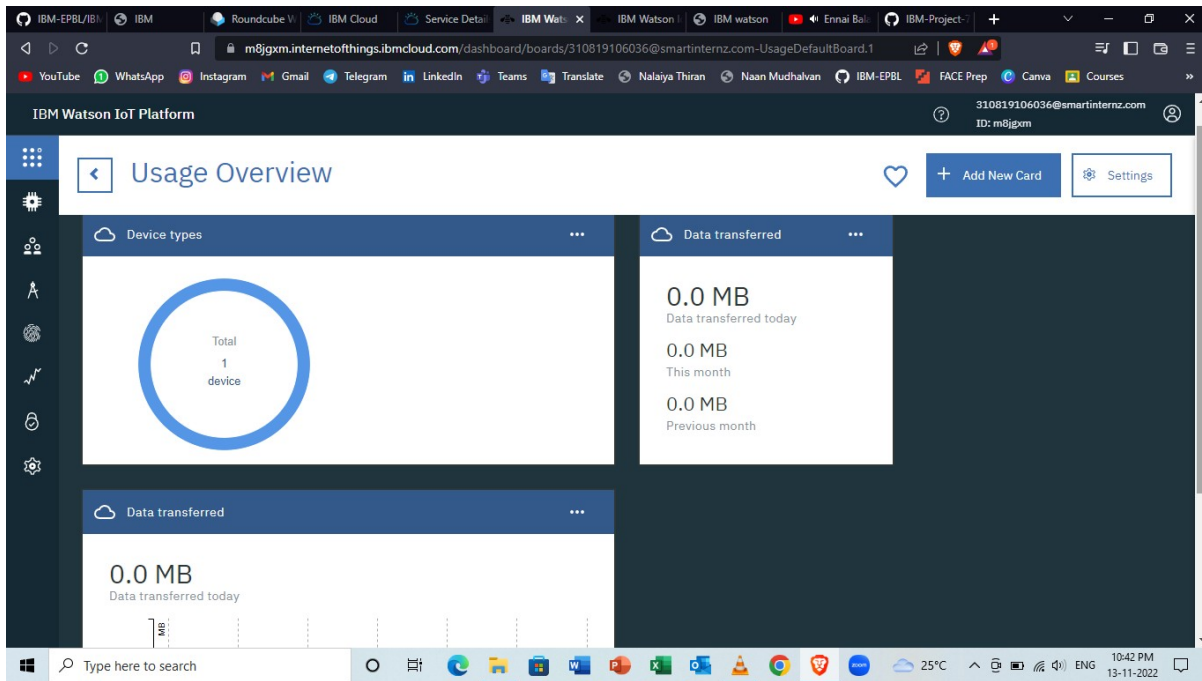
| Identity | Device Information | Recent Events | State | Logs |
|-------------------|-------------------------------|---------------|-------|------|
| Device ID | 199795 | | | |
| Device Type | NodeMCU | | | |
| Date Added | Nov 13, 2022 10:39 PM | | | |
| Added By | 310819106036@smartinternz.com | | | |
| Connection Status | Disconnected | | | |

The bottom of the dashboard shows a taskbar with various application icons and system status information, including the time 10:40 PM and date 13-11-2022.

18. The Boards will display card for the project.

The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes links for Your boards, Public boards, and a button to Create New Board. The main content area displays a list of boards. The first board listed is "USAGE OVERVIEW" with 3 cards. The second board listed is "RISK AND SECURITY OVERVIEW" with 4 cards. Below the list, there is a section titled "Boards shared with you". The bottom of the dashboard shows a taskbar with various application icons and system status information, including the time 10:41 PM and date 13-11-2022.

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RESULT:

An IBM Watson cloud for IoT and a device is created.