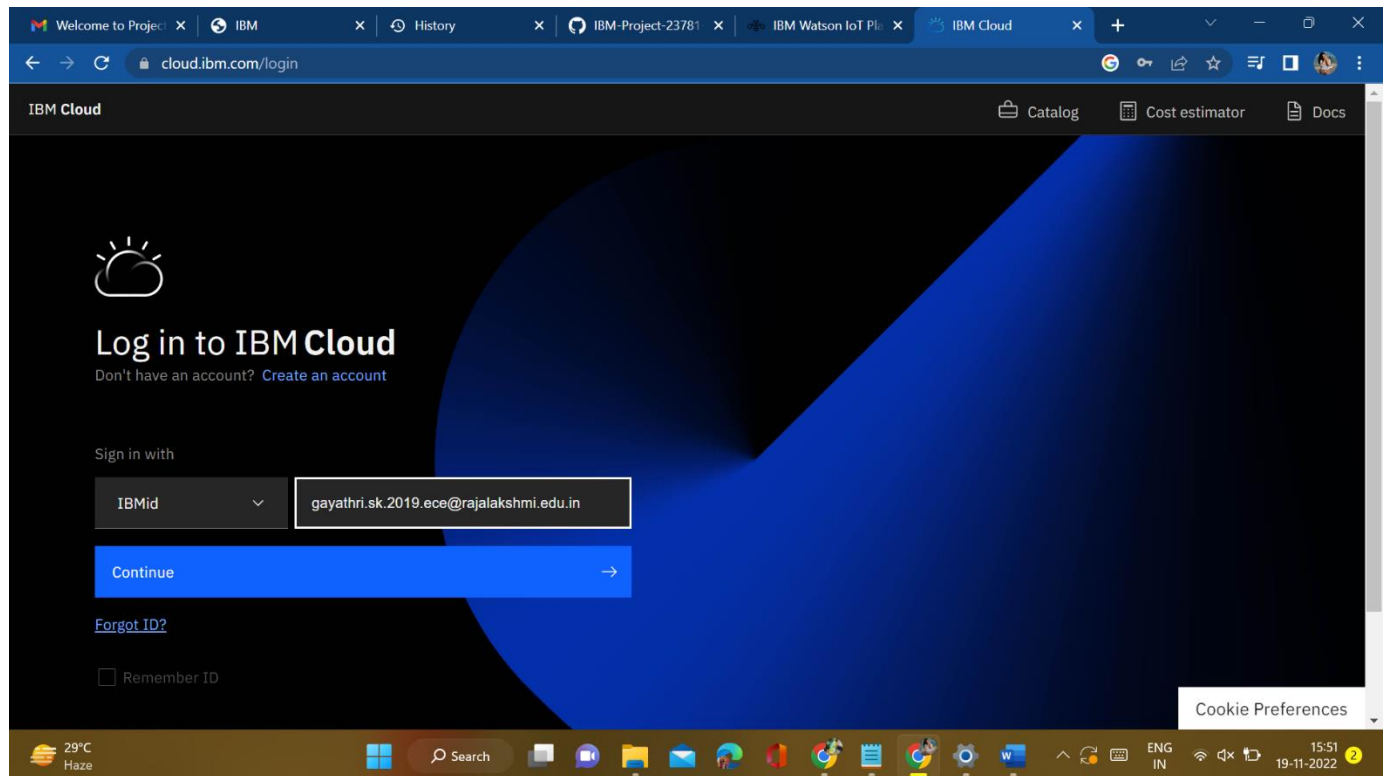


Create And Configure IBM Cloud Service
Create IBM Watson IoT Platform And Device

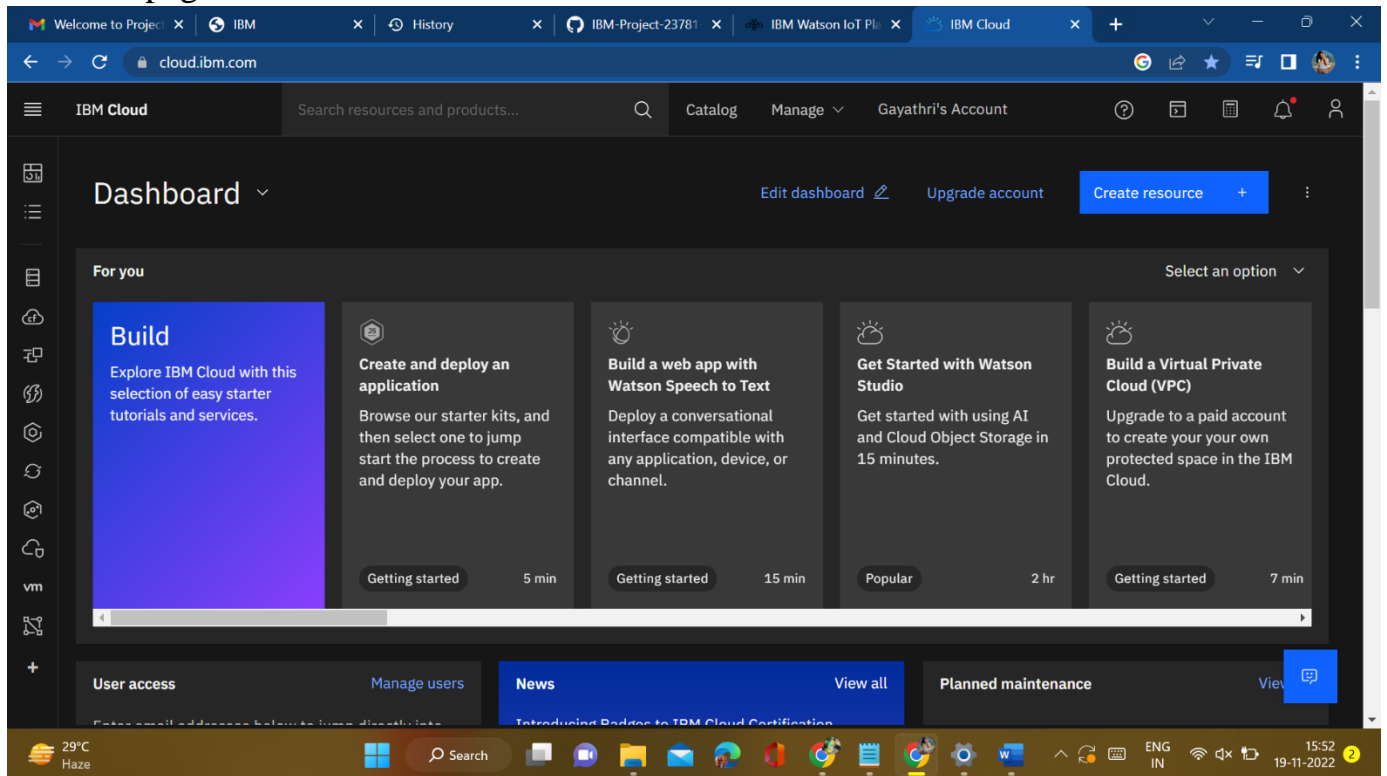
Date	24 October 2022
Team ID	PNT2022TMID02431
Project Name	IoT Based Safety Gadget For Child Safety Monitoring & Notification
Maximum Marks	4 Marks

STEPS

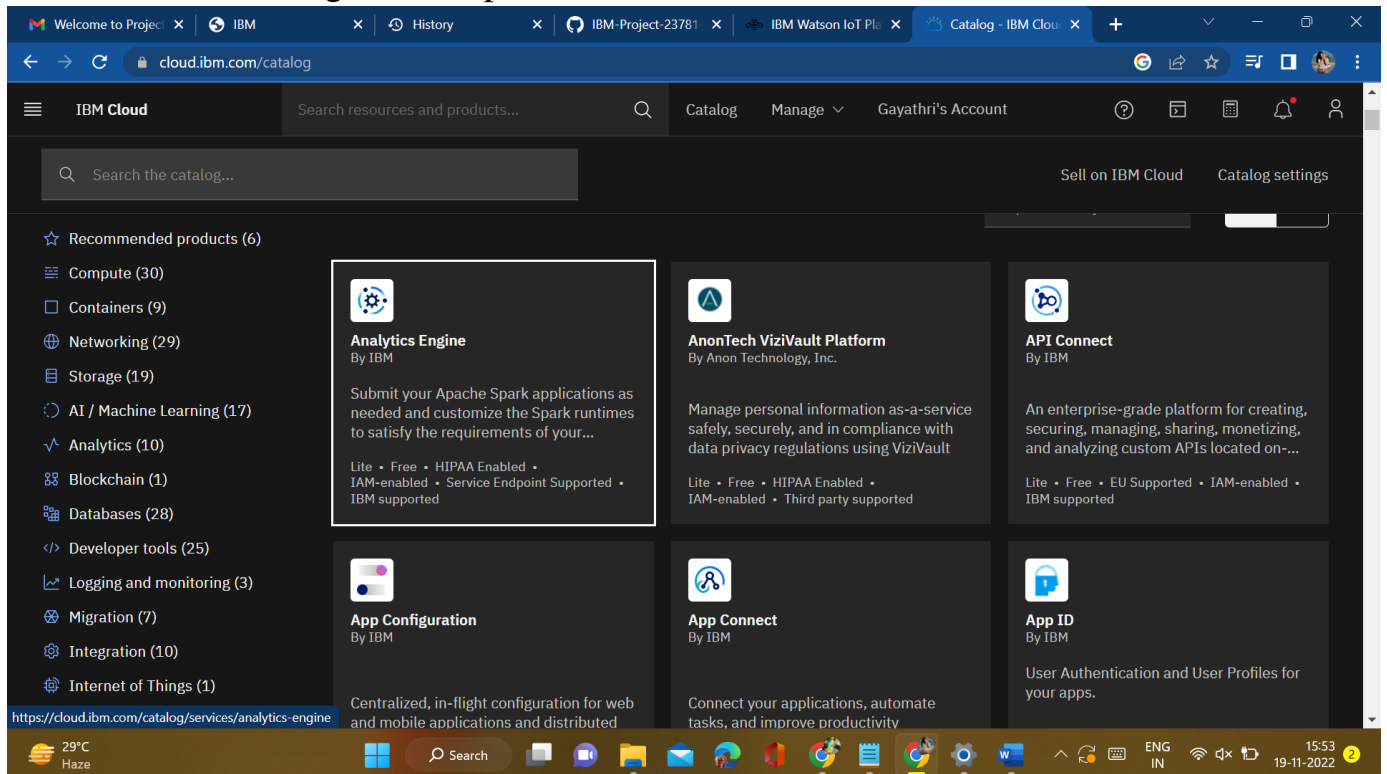
1. Firstly create an IBM cloud account with IBMid and password



2. Home page of IBM cloud



3. Click on the catalog on the top



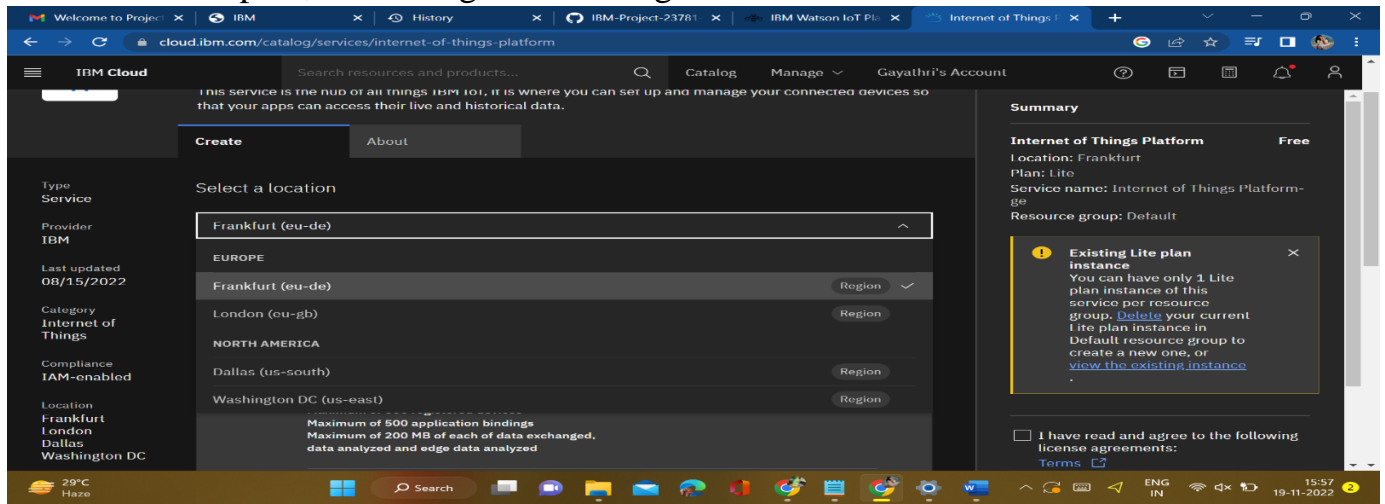
4. Click on IoT in the category mentioned

The screenshot shows the IBM Cloud catalog page for the Internet of Things Platform. The page is titled "Internet of Things Platform" and includes a description: "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." The "Create" button is highlighted. On the right, a "Summary" panel shows the service details: "Internet of Things Platform", "Location: Frankfurt", "Plan: Lite", "Service name: Internet of Things Platform-ge", and "Resource group: Default". A warning message states: "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." The bottom of the page shows a Windows taskbar with the date and time 15:54 on 19-11-2022.

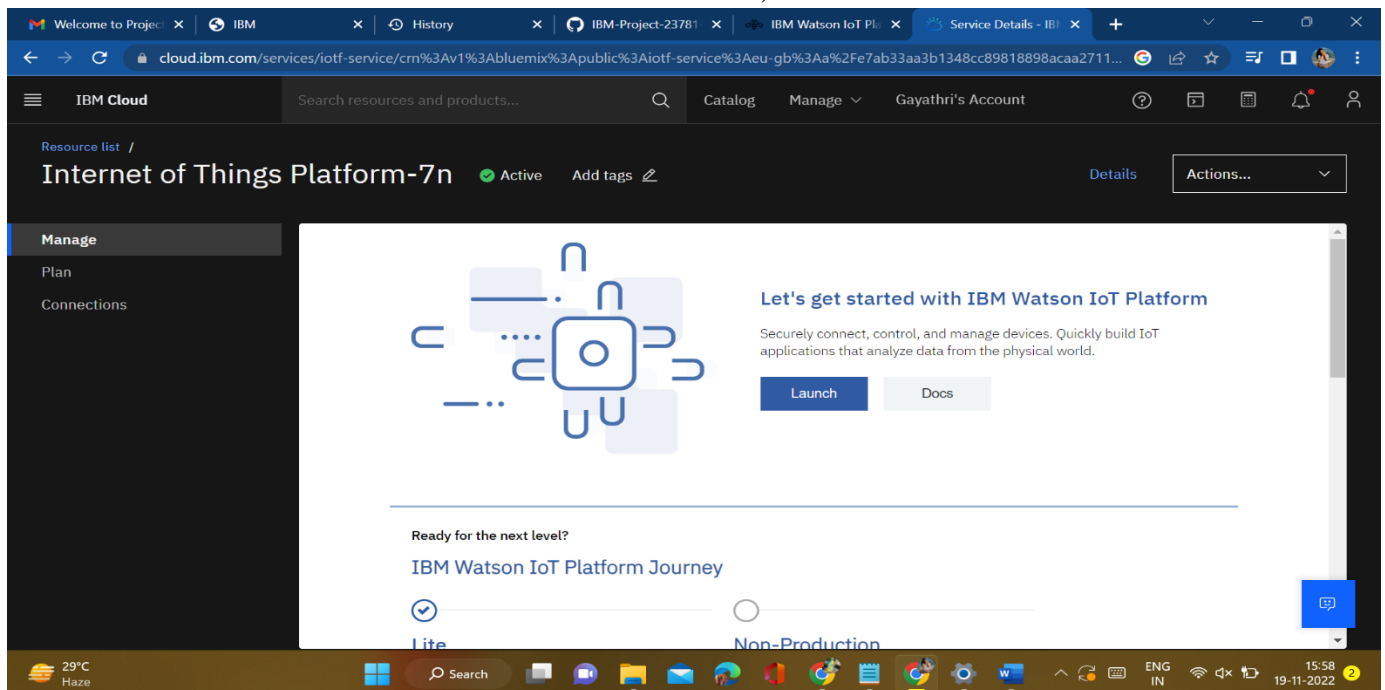
5. If already a lite is present delete it else u can't create another

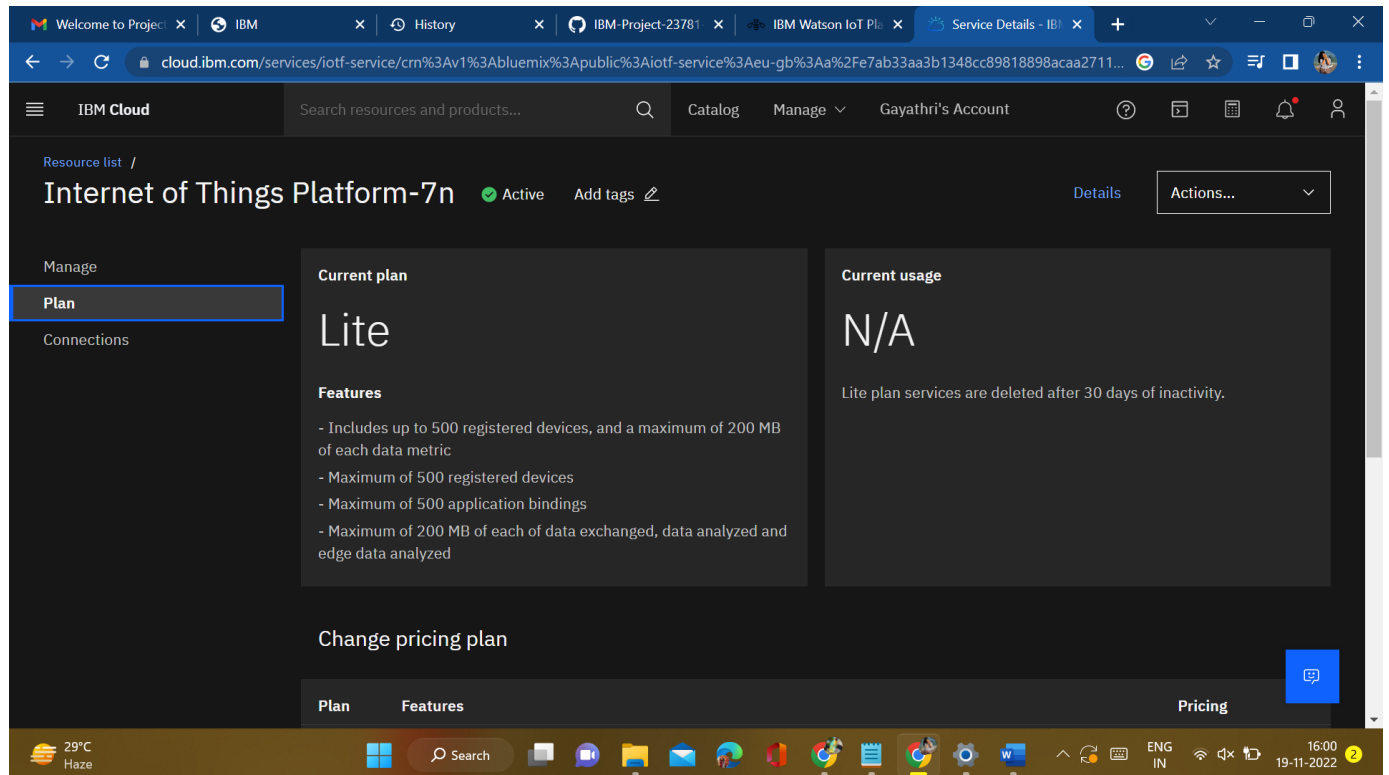
The screenshot shows the IBM Cloud catalog page for the Internet of Things Platform, specifically the "Configure your resource" section. The "Service name" field is filled with "Internet of Things Platform-ge". The "Select a resource group" dropdown is set to "Default". The "Tags" field has the example "env:dev, version-1". The "Access management tags" field has the example "access:dev, proj:version-1". On the right, the "Summary" panel shows the same service details as the previous screenshot. A warning message states: "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." The bottom of the page shows a Windows taskbar with the date and time 15:55 on 19-11-2022.

6. Enter the location and in the configure your resource type the service name and choose the plan, tick the agree with it agreements and then click on create



7. Internet of Things Platform Child_safety will be created, where there are different options like manage, plan, and connection (manage is for launch, Plan gives us the idea about the payment package and its upgrades, and lastly the connection is for to connect IoT with other services)





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



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

The screenshot shows the IBM Watson IoT Platform interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A sidebar on the left contains icons for various functions. The main content area is titled 'Browse Devices' and includes a table of devices. The table has columns for Device ID, Status, Device Type, Class ID, and Date Added. A single device is listed with ID 12345, status 'Disconnected', and type 'NodeRed'. Below the table, there is a search bar and a 'Device Simulator' toggle. The bottom of the page shows a Windows taskbar with the date 19-11-2022 and time 16:01.

Device ID	Status	Device Type	Class ID	Date Added
12345	Disconnected	NodeRed	Device	Nov 19, 2022 1:22 PM

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

The screenshot shows the IBM Watson IoT Platform home page. The top navigation bar includes '41141 P104024@newprin...' and 'ID: (aala et o p)'. The main content area features a large 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'. Below the graphic, there is a 'Learn More' button and a 'Cookie Preferences' button. The bottom of the page shows a Windows taskbar with the date 19-11-2022 and time 16:01.

11. 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

IBM Watson IoT Platform

gayathri.sk.2019.ece@rajalakshmi.edu.in
ID: d5mrhv

Browse Action Device Types Interfaces

Add Device +

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 criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

Device Simulator ☐

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added
> <input type="checkbox"/>	12345	Disconnected	NodeRed	Device	Nov 19, 2022 1:22 PM

Items per page 50 | 1-1 of 1 item

1 of 1 page

29°C Haze

Search

ENG IN

16:01 19-11-2022

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

IBM Watson IoT Platform

gayathri.sk.2019.ece@rajalakshmi.edu.in
ID: d5mrhv

Browse

+ Add Members

Browse Members

This table shows a summary of the members of the organization. It can be filtered, organized, and search on using different criteria. To get started, you can add members by clicking Add Members, or by using the API. For more information about members, see [Managing user access](#).

gayathri.g.2019.ece@rajalakshmi.edu.in

Email Address	Name	Role	Added By	Expires
1 result				

There are no members

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

IBM Watson IoT Platform

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ID: d5mrhv

Browse IBM Cloud Apps

[+ Generate API Key](#)

Browse API Keys

Type the app description to search for

This table shows a summary of the API keys that have been added for the organization. It can be filtered, organized, and search on using different criteria. To get started, you can add API keys by clicking Generate API Key, or by using the API. For more information about adding API keys, see [API key connection](#).

<input type="checkbox"/> Key	Description	Role	Expires
0 results			

There are no API Keys

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

IBM Watson IoT Platform

gayathri.sk.2019.ece@rajalakshmi.edu.in
ID: d5mrhv

Browse Action Device Types Interfaces

[Add Device](#)

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 criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

Device Simulator ☐

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added
> <input type="checkbox"/>	12345	Disconnected	NodeRed	Device	Nov 19, 2022 1:22 PM

Items per page 50 | 1-1 of 1 item

1 of 1 page

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

16. Clicking next it goes to the security where we do authentication token id.

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

The screenshot displays the IBM Watson IoT Platform dashboard. The top navigation bar includes tabs for 'Welcome to P...', 'IBM', 'History', 'IBM-Project-2', 'IBM Watson Io', 'Service Details', and 'IBM Watson Io'. The main content area shows a table of devices with columns for 'Device ID', 'Status', 'Device Type', 'Device', and 'Date Added'. A modal window is open, displaying the details for device ID 12345. The modal has tabs for 'Identity', 'Device Information', 'Recent Events', 'State', and 'Logs'. The 'Identity' tab is selected, showing the following details:

Property	Value
Device ID	12345
Device Type	NodeRed
Date Added	Nov 19, 2022 1:22 PM
Added By	gayathri.sk.2019.ece@rajalakshmi.edu.in
Connection Status	Disconnected

The bottom of the dashboard shows a status bar with weather information (29°C Haze), system icons, and the date/time (16:04 19-11-2022).

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

The screenshot displays the IBM Watson IoT Platform dashboard in a web browser. The browser's address bar shows the URL `d5mrhv.internetofthings.ibmcloud.com/dashboard/devices/browse`. The dashboard header includes the title "IBM Watson IoT Platform" and a user profile for "gayathri.sk.2019.ece@rajalakshmi.edu.in" with ID "d5mrhv". The main navigation bar has tabs for "Browse", "Action", "Device Types", and "Interfaces". A sidebar on the left contains icons for various IoT functions. The main content area shows a list of devices, with one device selected and its details expanded. The device has ID "12345", is "Disconnected", and is of type "NodeRed". It was added on "Nov 19, 2022 1:22 PM" by the user "gayathri.sk.2019.ece@rajalakshmi.edu.in". The details panel has tabs for "Identity", "Device Information", "Recent Events", "State", and "Logs". The "Identity" tab is active, showing the following details:

Property	Value
Device ID	12345
Device Type	NodeRed
Date Added	Nov 19, 2022 1:22 PM
Added By	gayathri.sk.2019.ece@rajalakshmi.edu.in
Connection Status	Disconnected

At the bottom of the details panel, it indicates "Items per page 50" and "1-1 of 1 item". The Windows taskbar at the bottom shows the date and time as "16:04 19-11-2022".

Safe the details of the device as the authentication tokens are nonrecoverable and if misplaced then we have to create a new one.

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

It has different tabs like Identity, Device Information, State and login.

IBM Watson IoT Platform

gayathri.sk.2019.ece@rajalakshmi.edu.in
ID: d5mrhv

Browse Action Device Types Interfaces

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 criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID Device Simulator

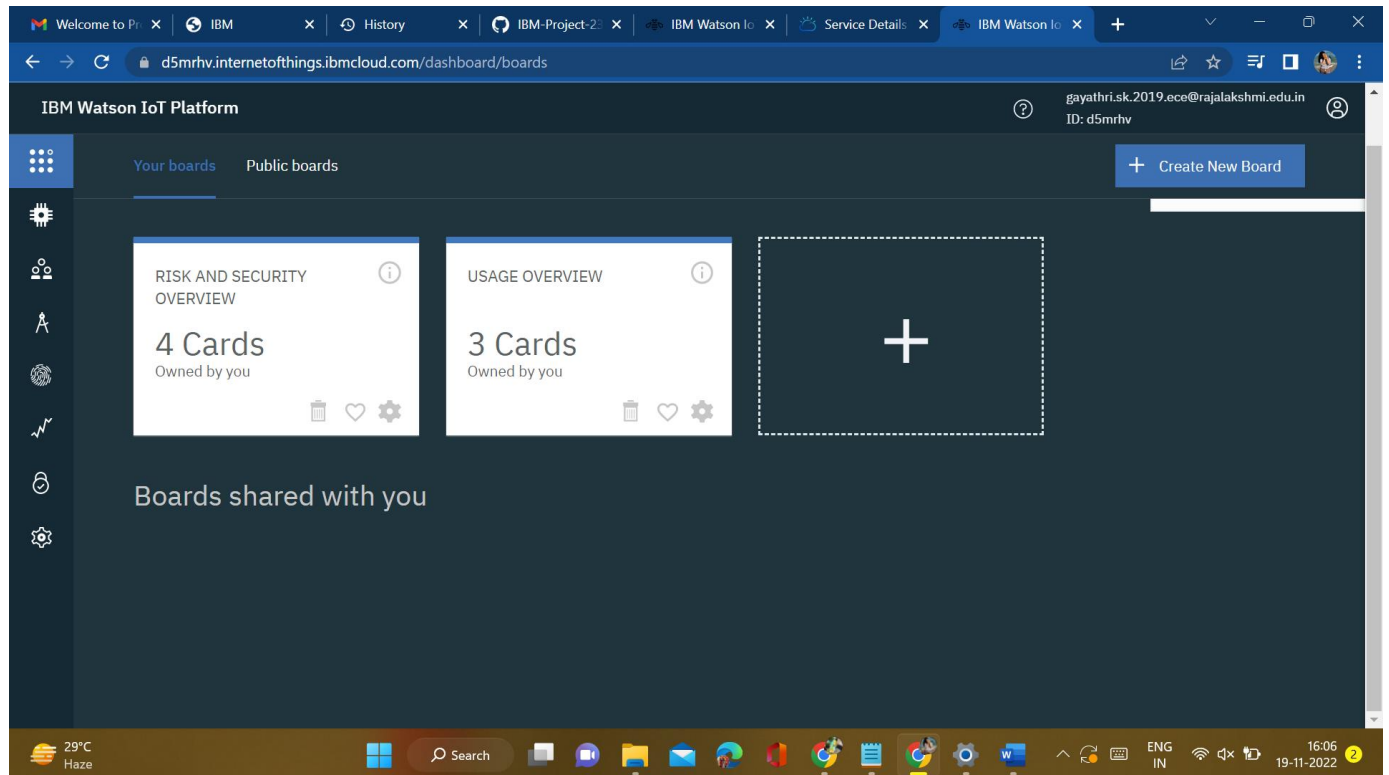
Device ID	Status	Device Type	Class ID	Date Added
12345	Disconnected	NodeRed	Device	Nov 19, 2022 1:22 PM

Identity Device Information Recent Events State Logs

Device ID 12345

In a similar way, we can create n number of devices with a 50 per page limit as per the requirement of our project.

20..The Boards will display card for the project.



RESULT:

An IBM Watson cloud for IoT and a device is created