

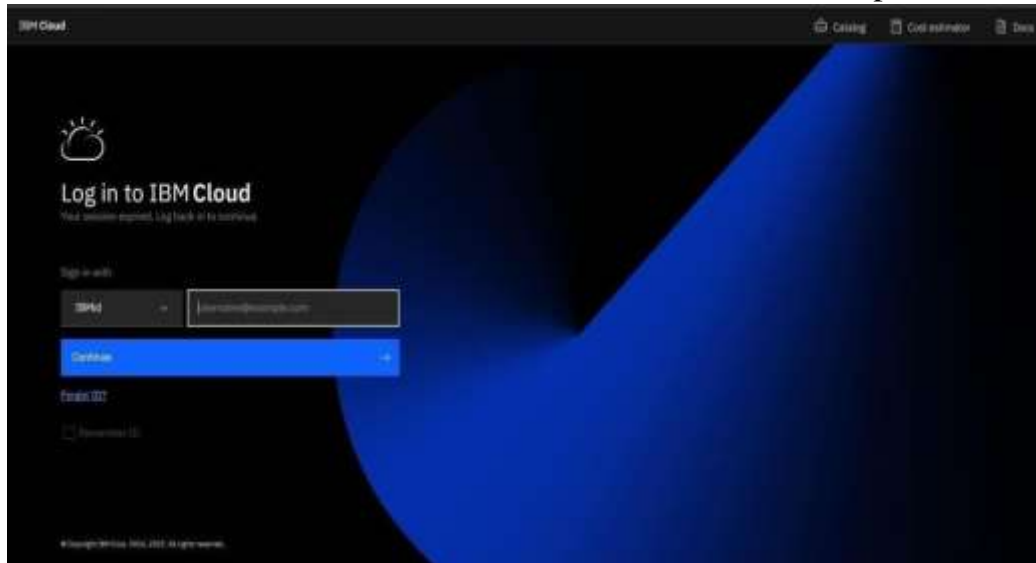
TEAM ID : PNT2022TMID15011

## CREATE IBM WATSON IOT PLATFORM AND DEVICE

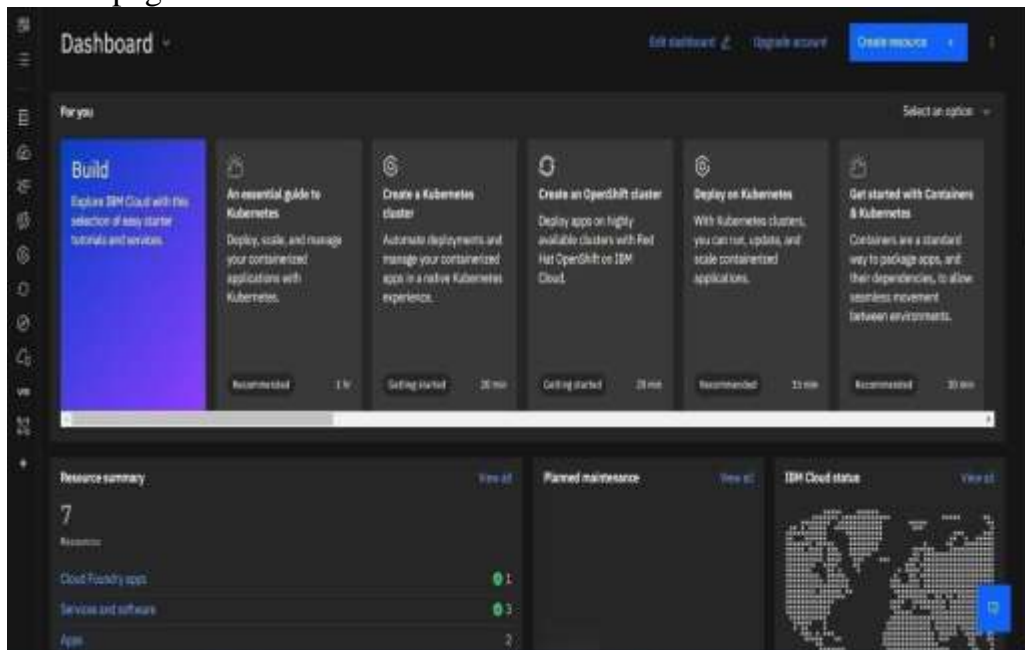
1.To create the IBM Watson IOT platform and device

STEPS:

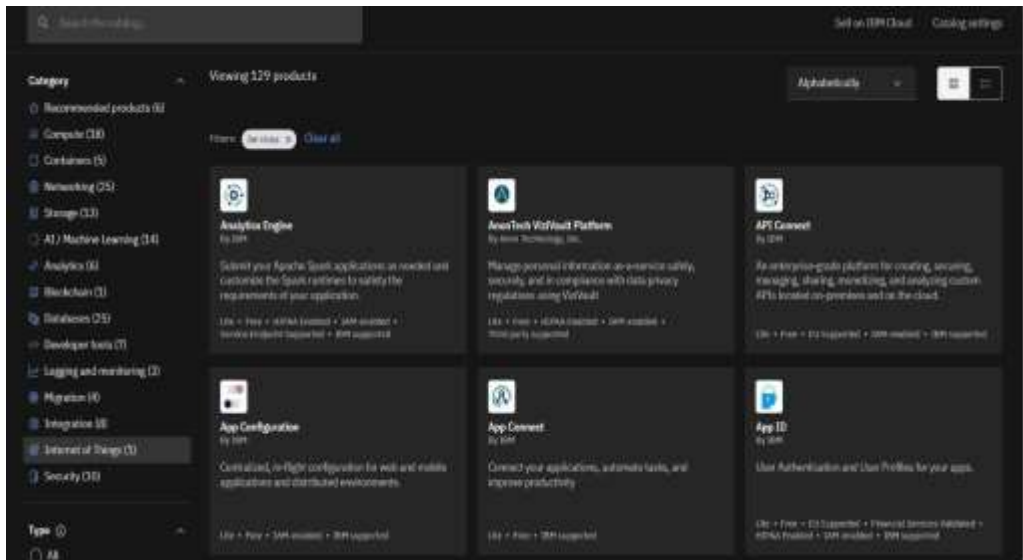
1.Create an IBM cloud account with the individual IBM id and password



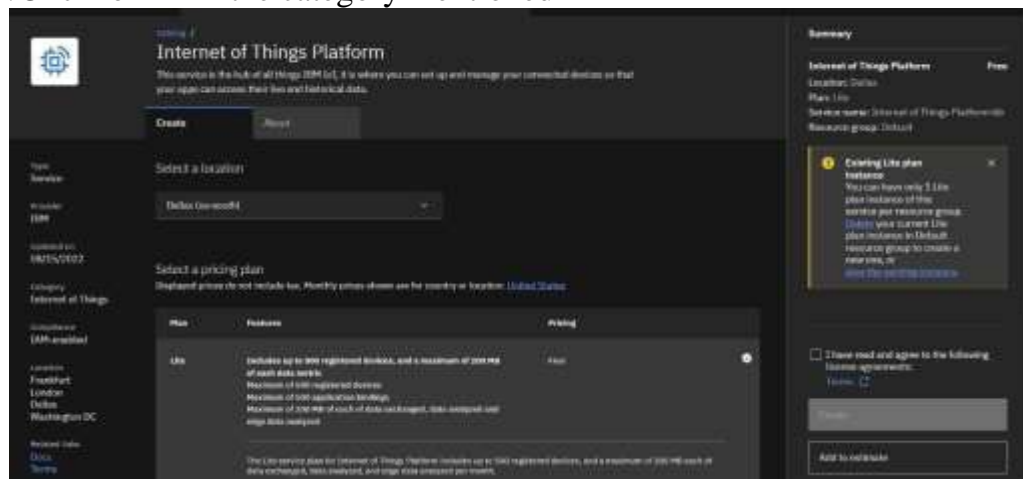
2.Home page of IBM cloud



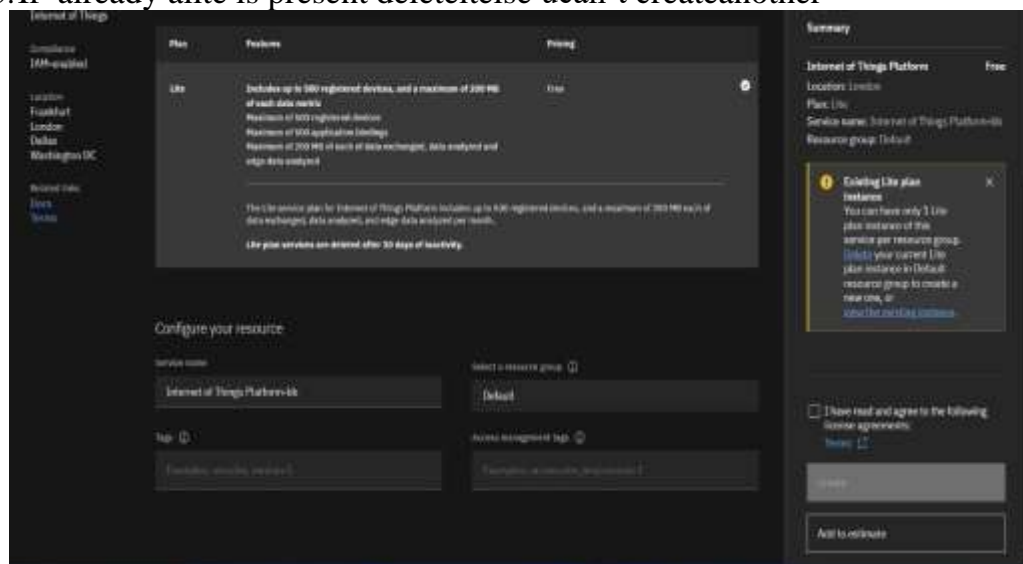
3.Click on the catalog on the top



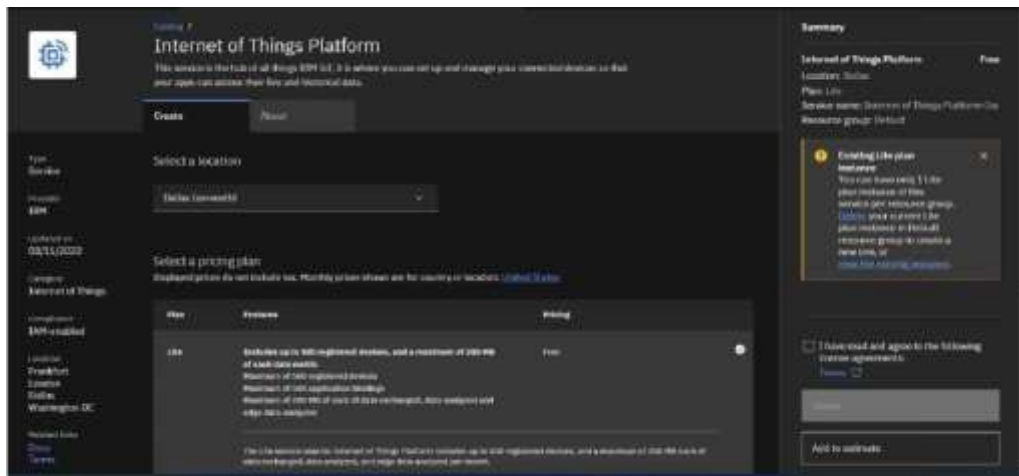
4. Click on IT in the category mentioned



5. If already life is present delete it else you can't create another



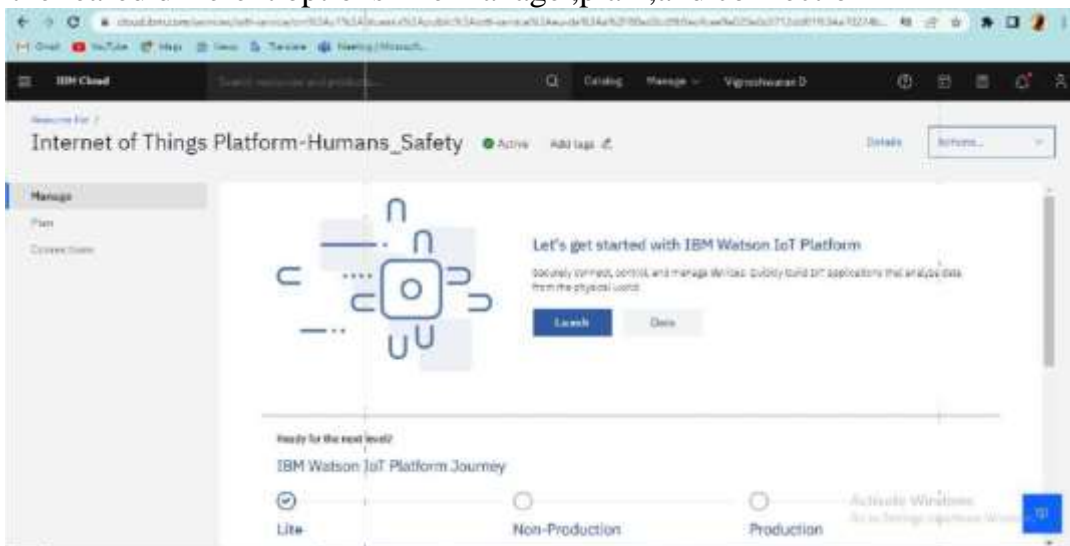
6. Enter the location and in the configure your resource type the service name and choose the plan, tick the agree with agreements and then click on create



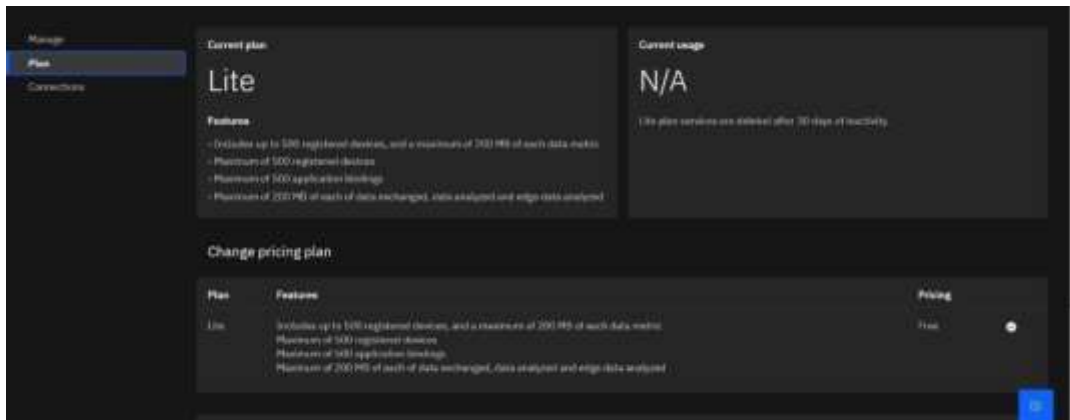
## 7. Clickcreate



## 8. Internet of Things Platform crop protection system will be created, where the reared different options like manage ,plan ,and connection



9. 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



10. Click on the launch button in the manage tab ,it will open to this



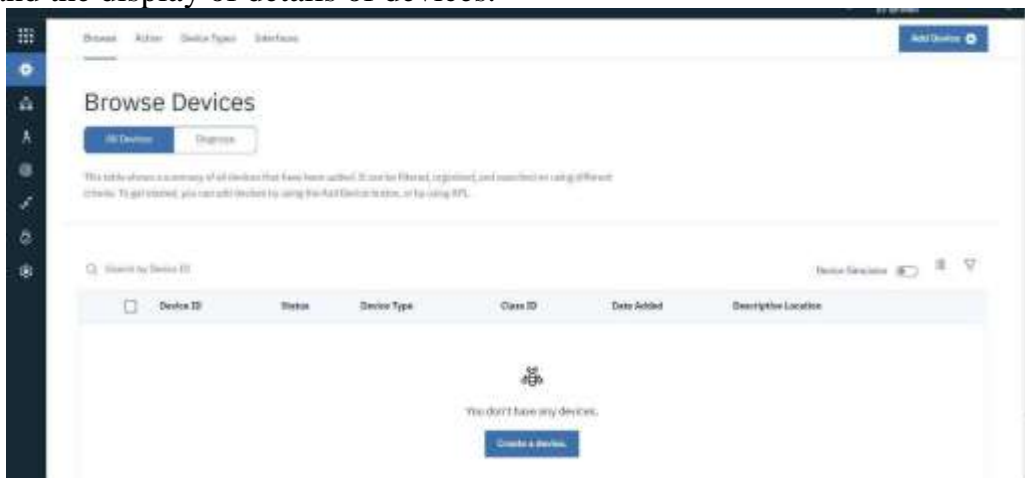
11. Enter the details to sign in to the Watson Cloud to create a device



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



13. 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 devices.



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



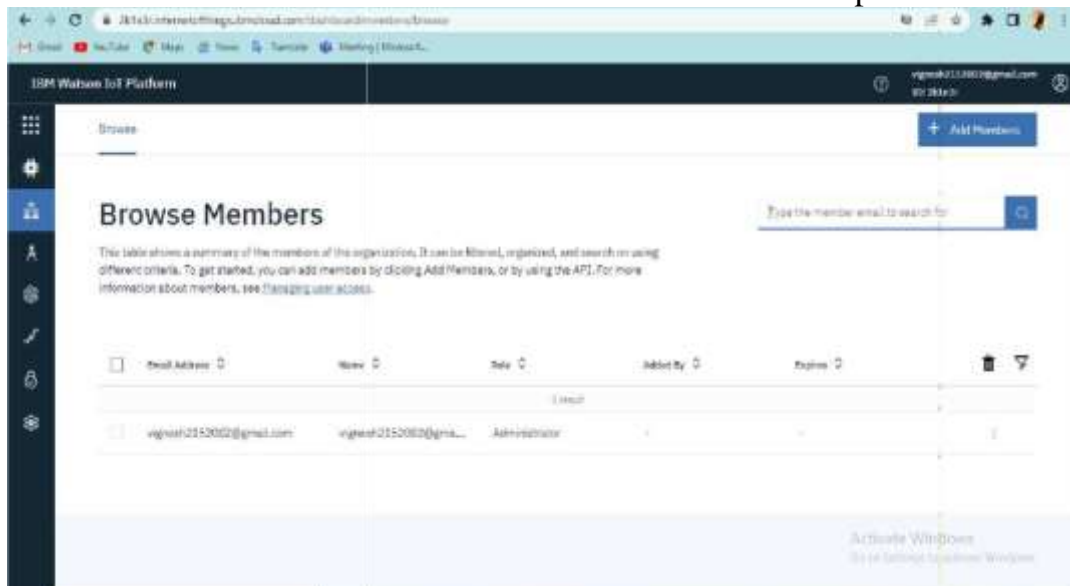
15. In the security tab we can choose the type of security connection and can change according to specification



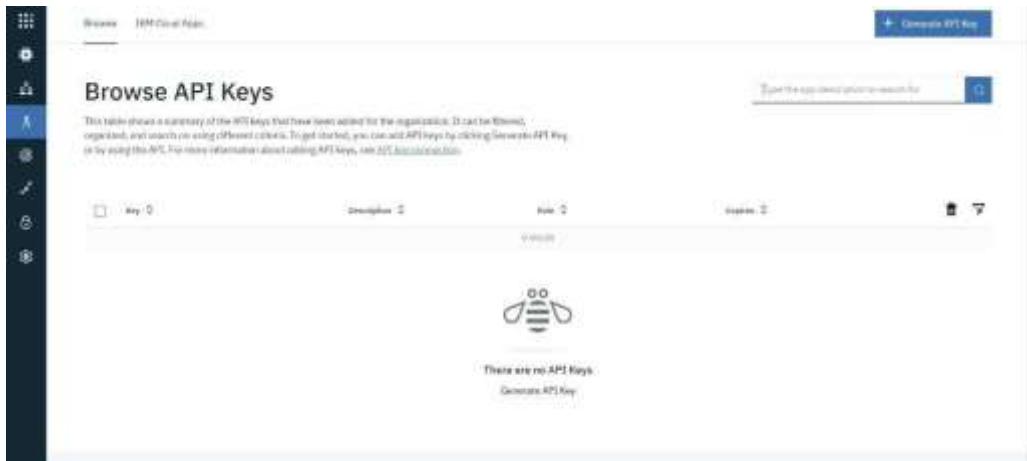
16. Usage gives the summary of how many bytes are used between the devices and the IBM cloud



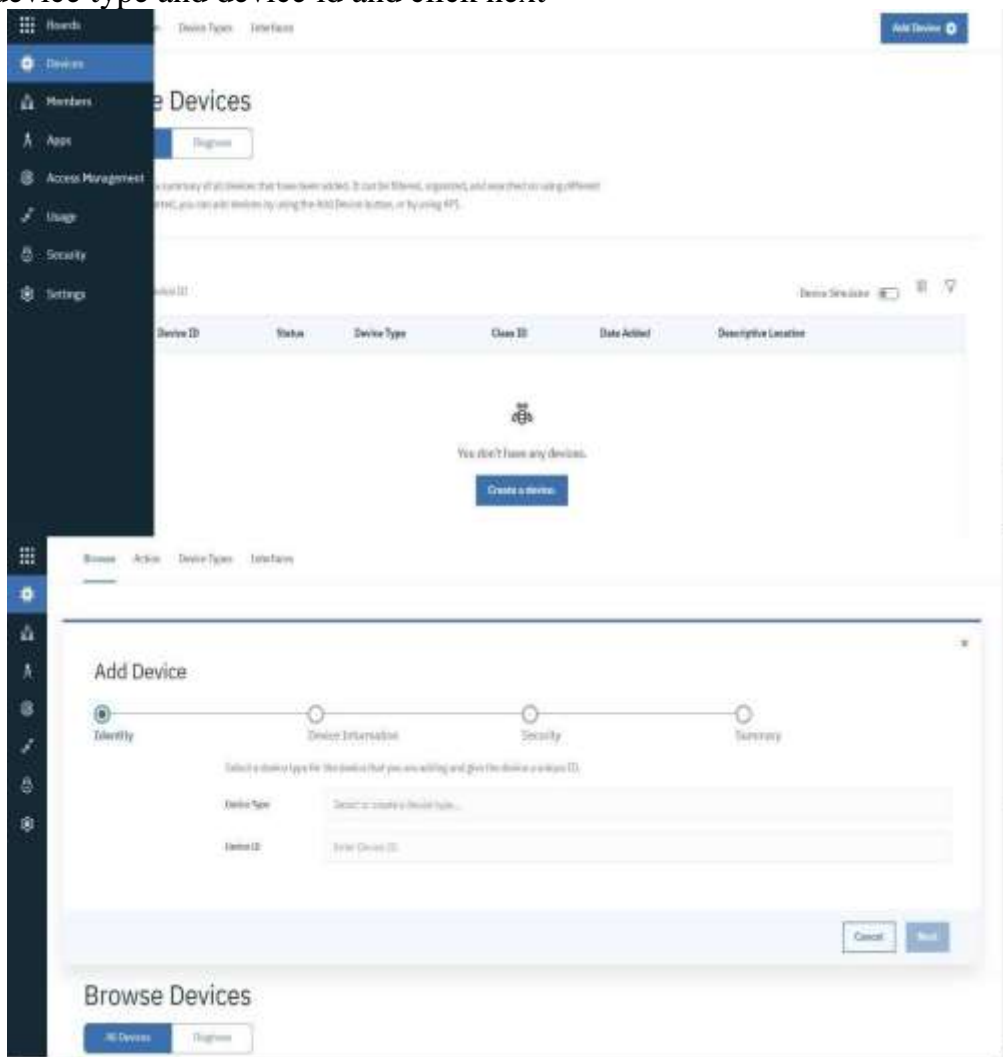
17. The member tab is add the teams members to work in the platform



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



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



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

The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform. The 'Device Information' step is active, showing a progress bar with four steps: Identity, Device Information, Security, and Summary. The 'Device Information' step contains several input fields for device details:

- Serial Number: 12345678901234567890
- Model: 12345678901234567890
- Description: 12345678901234567890
- Hardware Version: 12345678901234567890
- Manufacturer: 12345678901234567890
- Device Class: 12345678901234567890
- Manufacturer Model: 12345678901234567890
- Designated Location: 12345678901234567890

At the bottom, there is an 'Add Metadata' button and 'Back' and 'Next' buttons.

21. Clicking next it goes to the security where we do authentication to kind.

The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform, now at the 'Security' step. The progress bar shows the 'Security' step as active. The page contains instructions on authentication tokens and a text input field for the token.

Allow the service to generate an authentication token for you. Tokens are 16 characters and contain a mix of alphanumeric characters and symbols. The token is returned to you at the end of the device registration process.

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, test names, or other predefined sequences.

Authentication Token: 12345678901234567890

Make a note of the authentication token. Tokens cannot be recovered. Tokens are encrypted before being stored.

Authentication tokens are encrypted before we store them.

At the bottom, there are 'Back' and 'Next' buttons.

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

The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform, now at the 'Summary' step. The progress bar shows the 'Summary' step as active. The page displays a summary of the device information entered in the previous steps.

Verify that the following information is correct then click Finish

- Device Type: 12345678901234567890
- Model: 12345678901234567890
- Serial Number: 12345678901234567890
- Hardware Version: 12345678901234567890
- Manufacturer: 12345678901234567890
- Device Class: 12345678901234567890
- Manufacturer Model: 12345678901234567890
- Designated Location: 12345678901234567890

At the bottom, there is a 'View Metadata' button and 'Back' and 'Finish' buttons.

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



24. Safe the details of the device as the authentication tokens are non recoverable and if misplaced then we have to create anemones.

25. 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.

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

26. The Boards will display card for the project.



CONCLUSION:

An IBM Watson cloud for IoT and a device is created