

SENDING A DATA FROM RASPBERRY-PI TO IBM WATSON

PROJECT NAME	INDUSTRIAL SPECIFIC FIRE MANAGEMENT SYSTEM
TEAM ID	PNT2022TMID48285

AIM:

To send sensor data (or any dummy data) from Raspberry –Pi to IBM Watson .In our case it is DHT sensors Data.

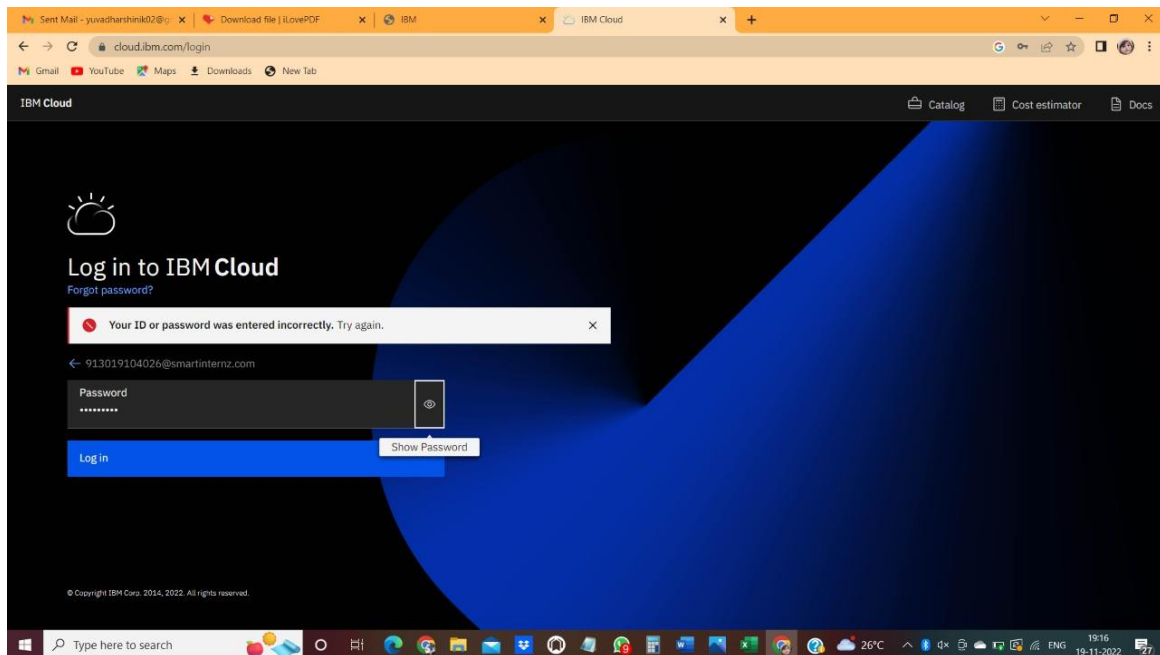
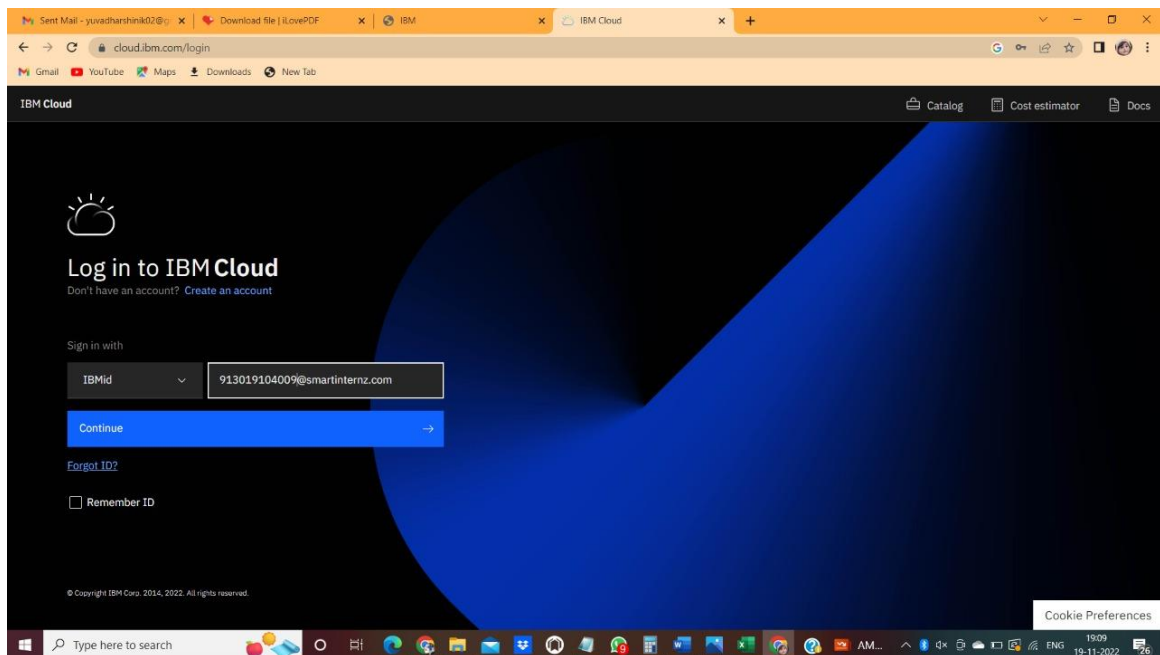
REQUIREMENTS:

HARDWARE:

- RASPBERRY-PI (3B)(WITH ETHERNET CABLE OR WIFI CONNECTED)
- USB MOUSE
- USB KEYBOARD
- VGA TO HDMI CABLE
- A MONITOR
- RASPBERRY'S POWER SUPPLY
- DHT-11 Sensor ➤Connecting Wires

SOFTWARE:

- IBM BLUEMIX ACCOUNT



cloud.ibm.com/catalog

IBM Cloud

Search resources and products...

Search the catalog...


Sell on IBM Cloud Catalog settings

Category

- Recommended products (6)
- Compute (30)
- Containers (9)
- Networking (29)
- Storage (19)
- AI / Machine Learning (17)
- Analytics (10)
- Blockchain (1)
- Databases (28)
- Developer tools (25)
- Logging and monitoring (3)
- Migration (7)
- Integration (10)
- Internet of Things (1)
- Security (25)
- Mobile (1)


Viewing 206 products

Alphabetically

**Analytics Engine**
By IBM


Submit your Apache Spark applications as needed and customize the Spark routines to satisfy the requirements of your application.

Lite • Free • HIPAA Enabled • IAM-enabled • Service Endpoint Supported • IBM supported

**AnonTech VizVault Platform**
By Anon Technology, Inc.


Manage personal information as-a-service safely, securely, and in compliance with data privacy regulations using VizVault

Lite • Free • HIPAA Enabled • IAM-enabled • Third party supported

**API Connect**
By IBM


An enterprise-grade platform for creating, securing, managing, sharing, monetizing, and analyzing custom APIs located on-premises and on the cloud.

Lite • Free • EU Supported • IAM-enabled • IBM supported

**App Configuration**
By IBM


Centralized, in-flight configuration for web and mobile applications and distributed environments.

Lite • Free • IAM-enabled • Service Endpoint Supported • IBM supported

**App Connect**
By IBM

Connect your applications, automate tasks, and improve productivity

Lite • Free • IBM supported

**App ID**
By IBM

User Authentication and User Profiles for your apps.

Lite • Free • EU Supported • Financial Services Validated • HIPAA Enabled • IAM-enabled • IBM supported

cloud.ibm.com/catalog?category=iot

IBM Cloud

Search resources and products...

Search the catalog...

Sell on IBM Cloud Catalog settings

Internet of Things

Viewing 1 product

Filters: Internet of Things X Clear all

Type

☒ All
☐ Services
☐ Software
☐ Professional services

Provider


☐ IBM (1)

Pricing plan

☐ Lite
☐ Free

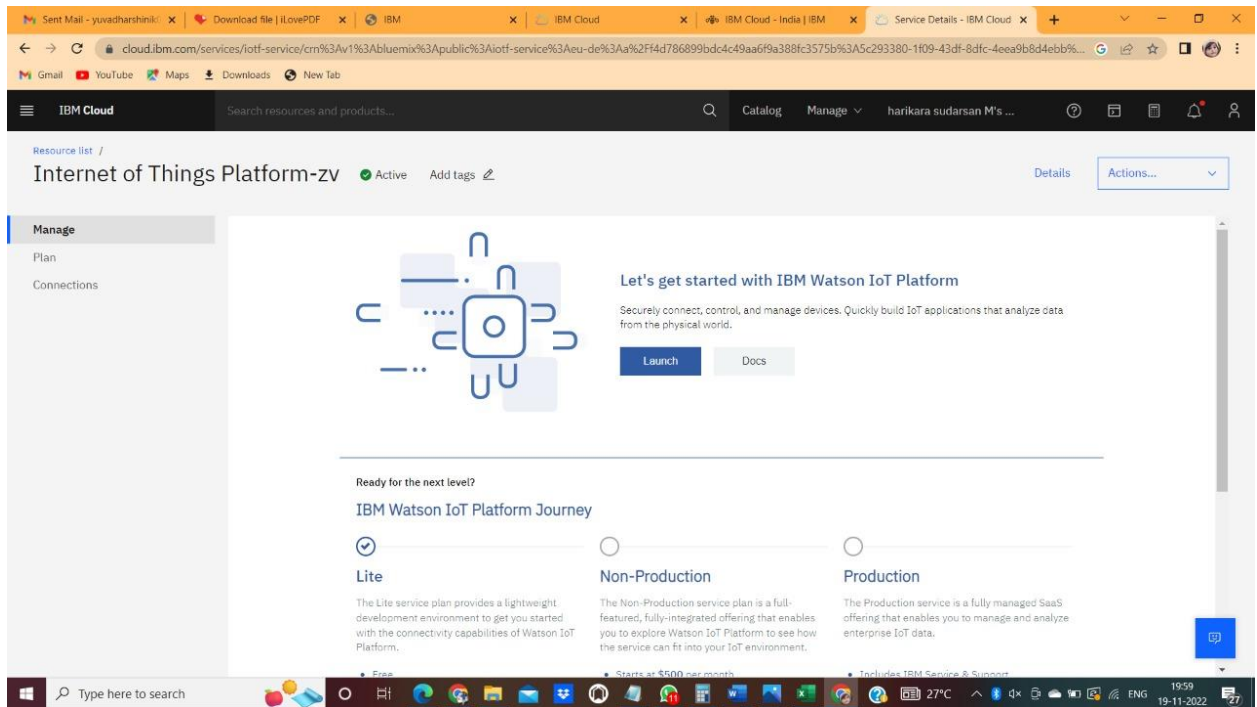
Compliance

☐ IAM-enabled

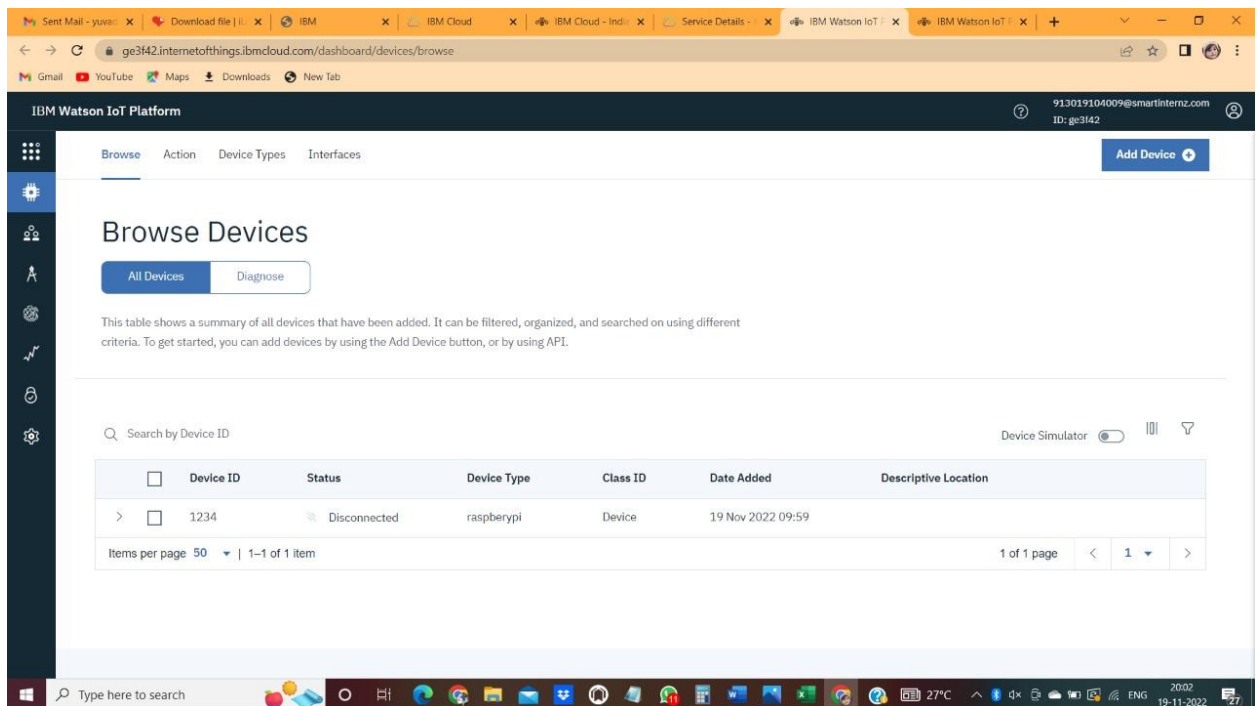
**Internet of Things Platform**
By IBM

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.

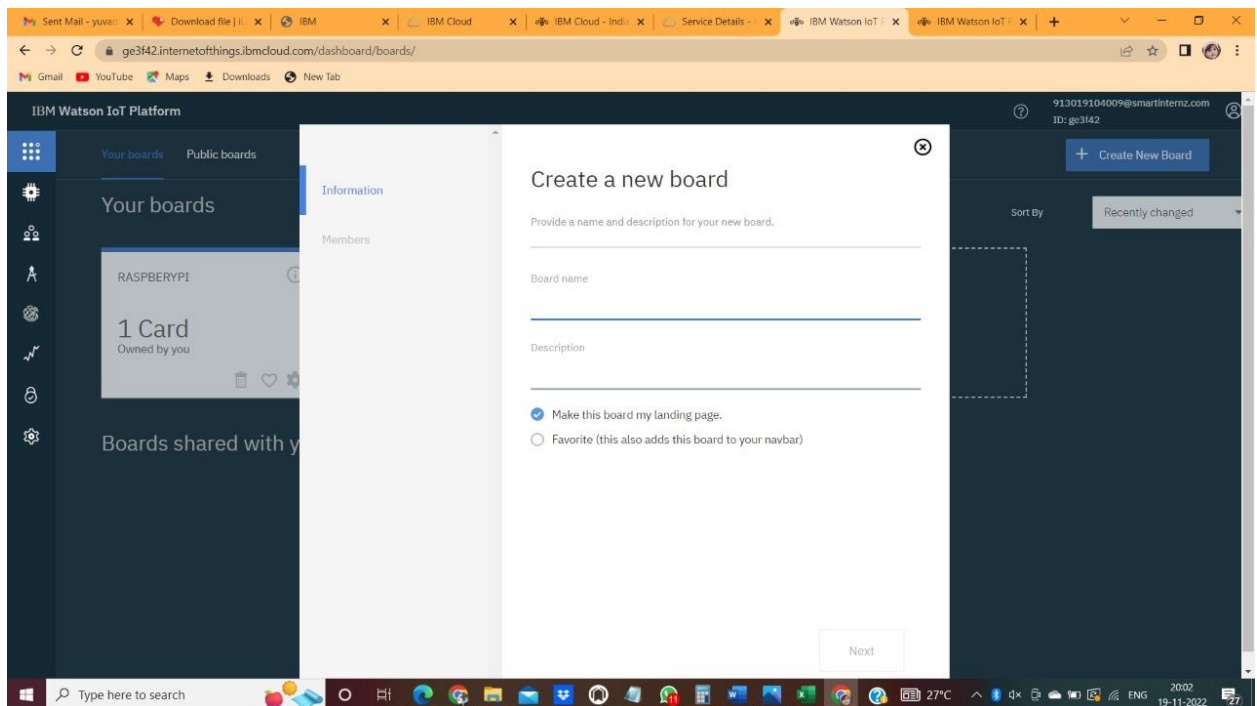
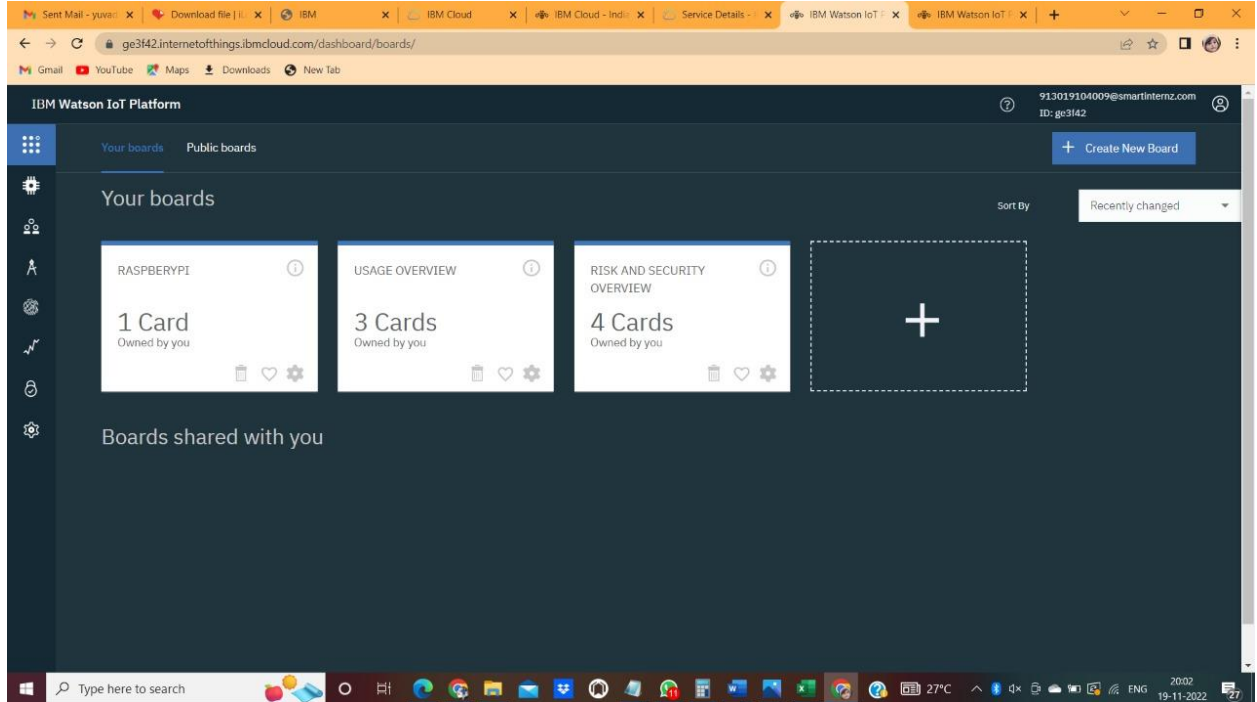
Lite • Free • IAM-enabled • IBM supported

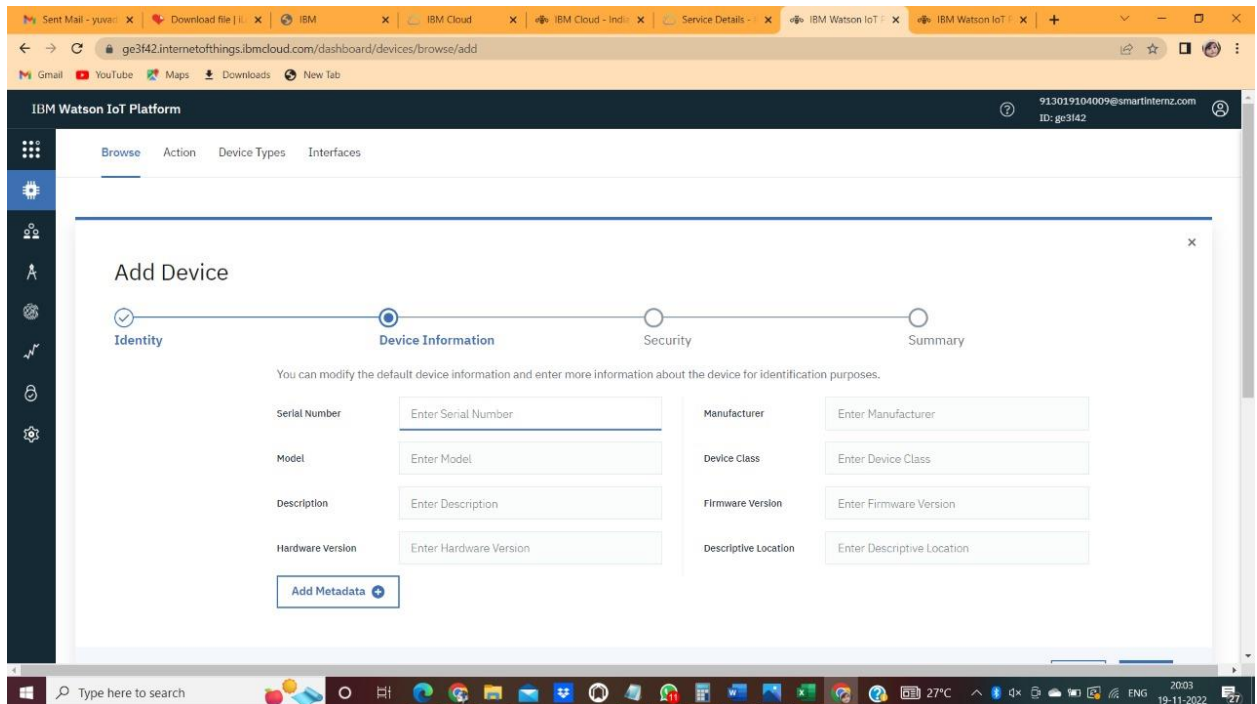
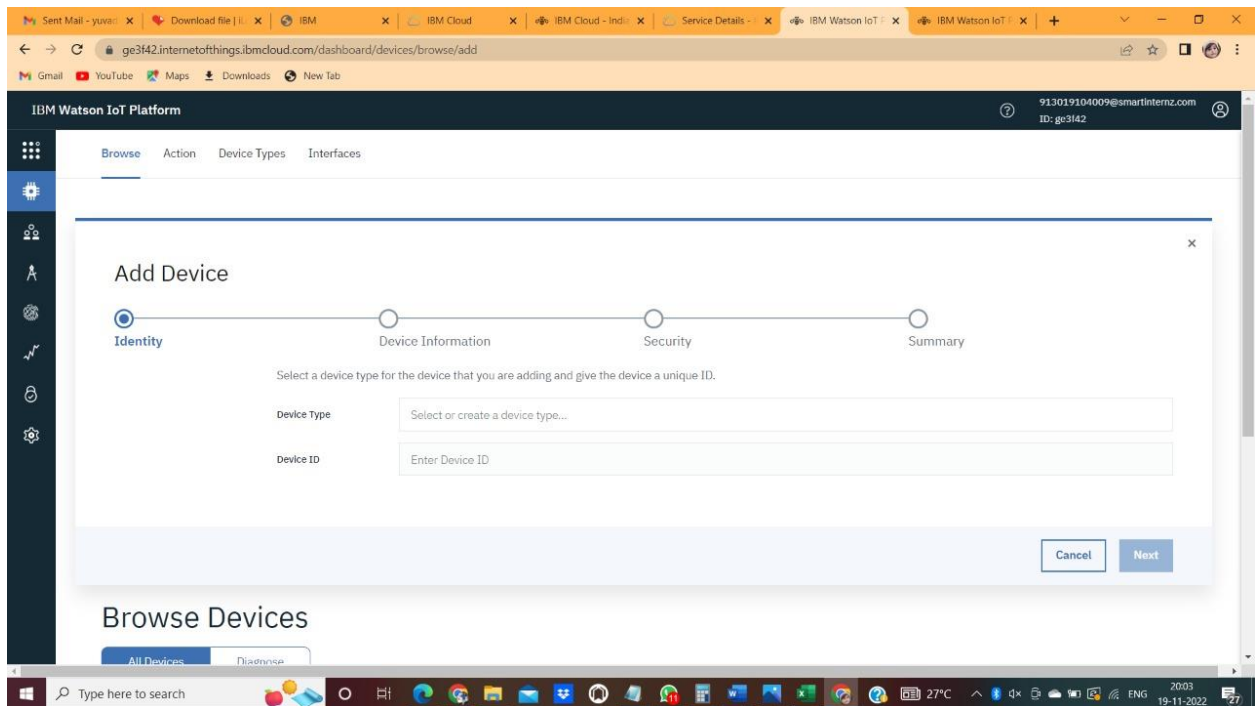


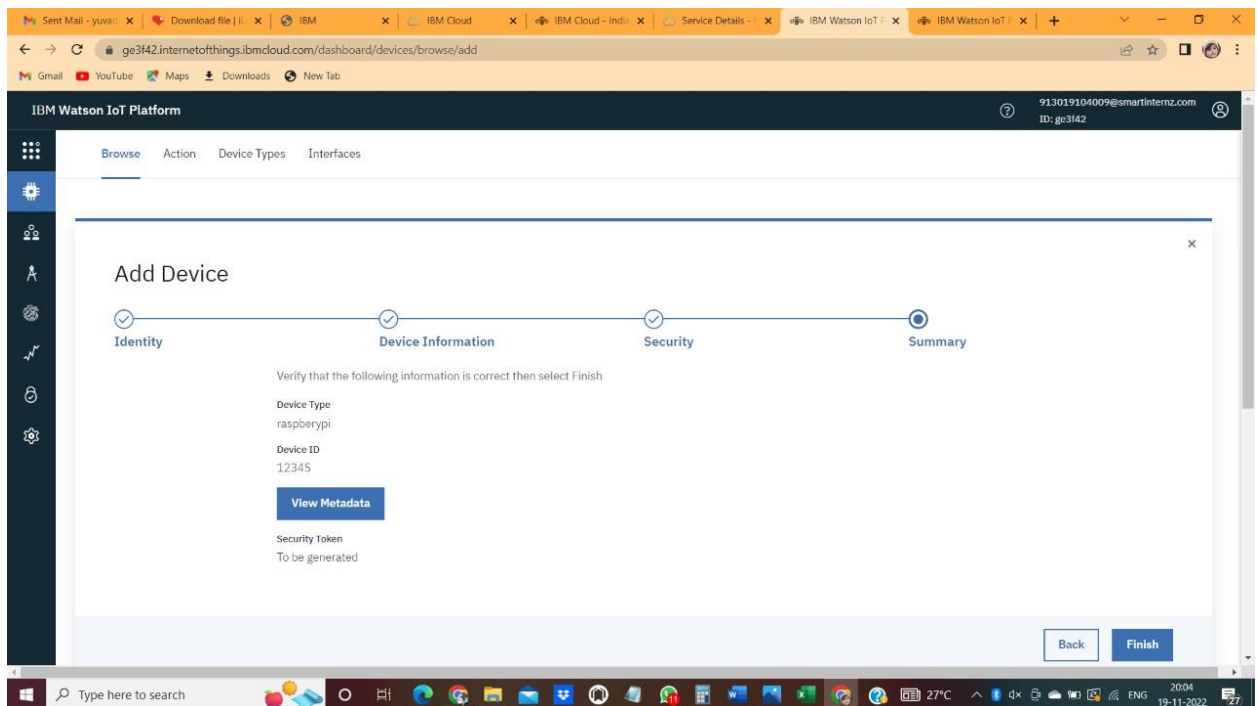
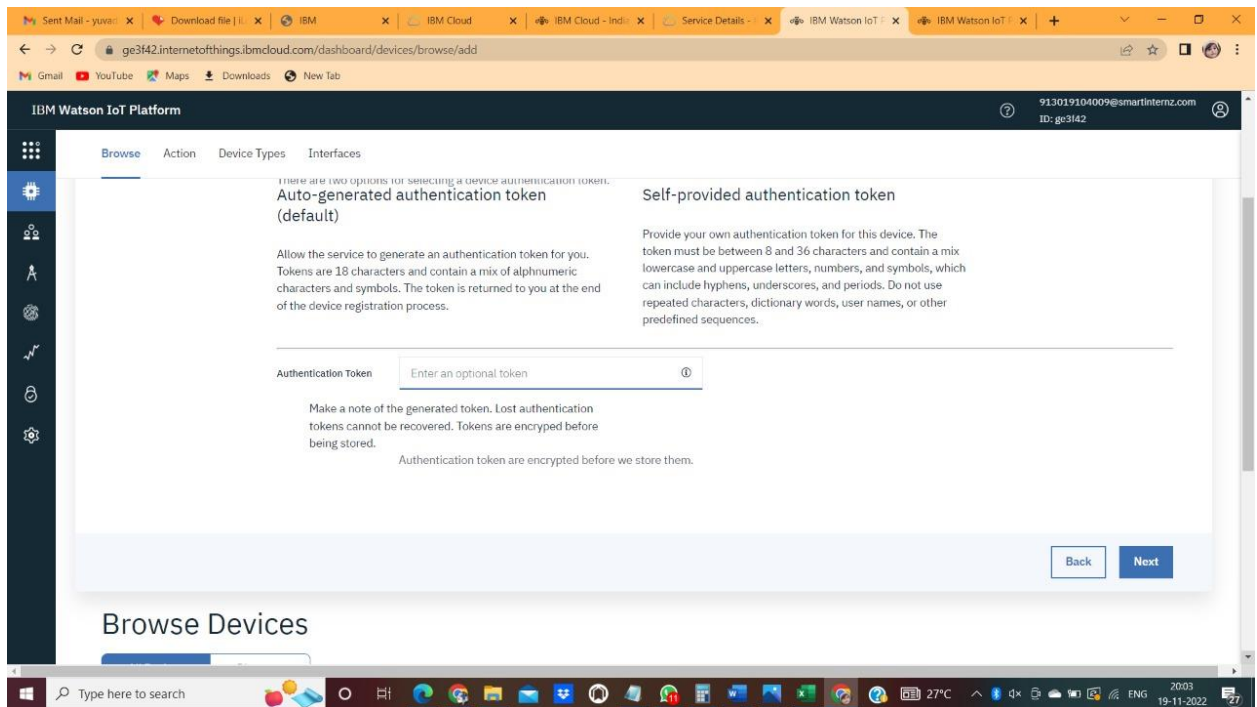
Dashboard of IBM Watson IoT platform,
Click on device



After click on add device this page will open







IBM Watson IoT Platform

Device Drilldown - 12345

Device Credentials

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	ge3f42
Device Type	raspberrypi
Device ID	12345
Authentication Method	use-token-auth
Authentication Token	xH2rWbBeveb@0gIghs


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

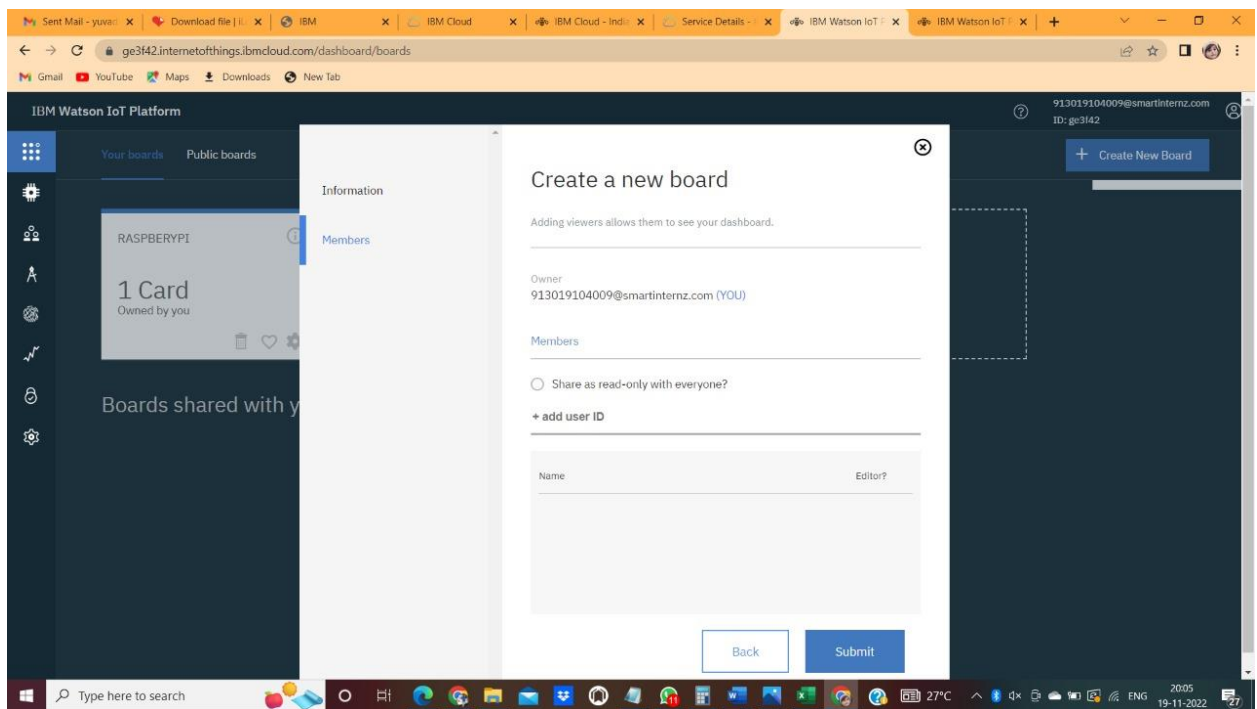
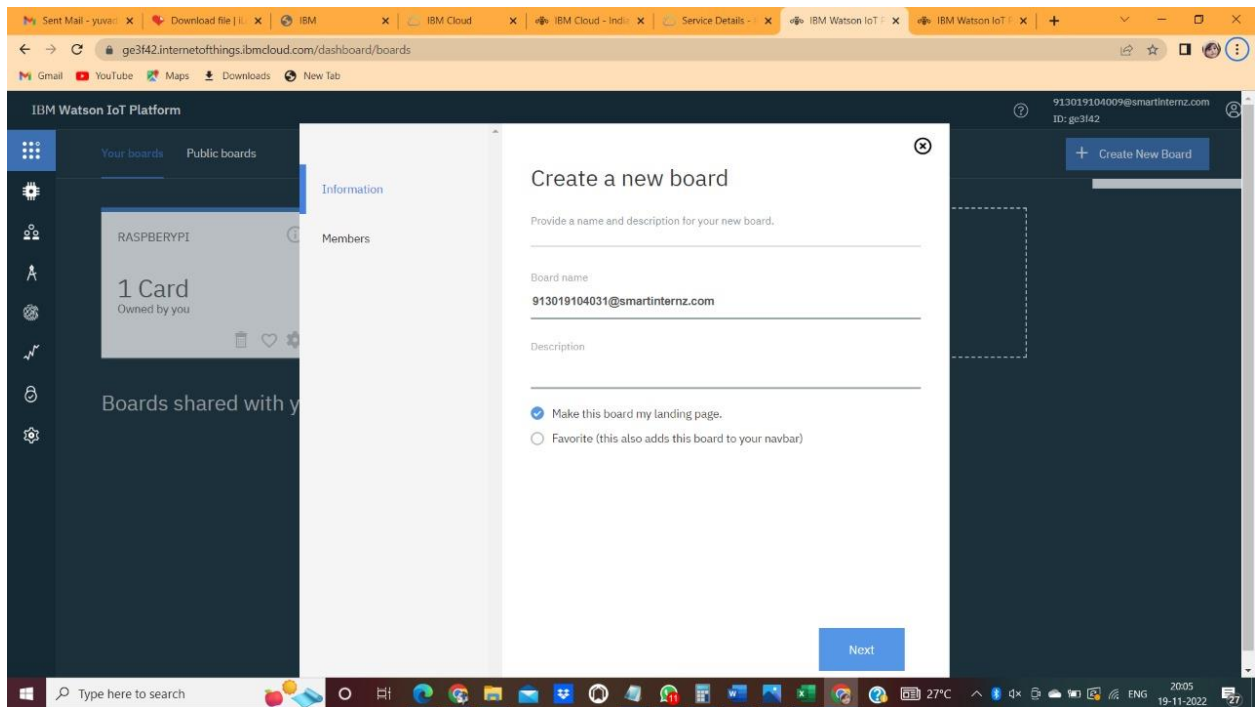
[Find out how to add these credentials to your device](#)

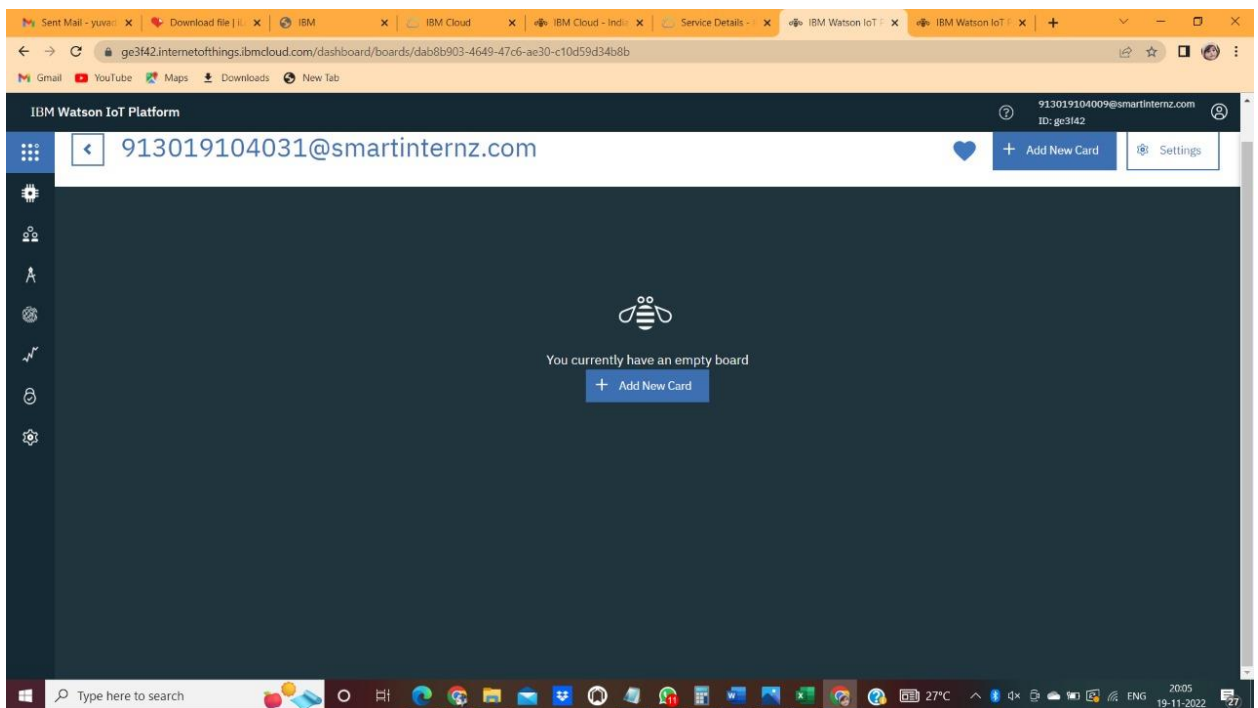
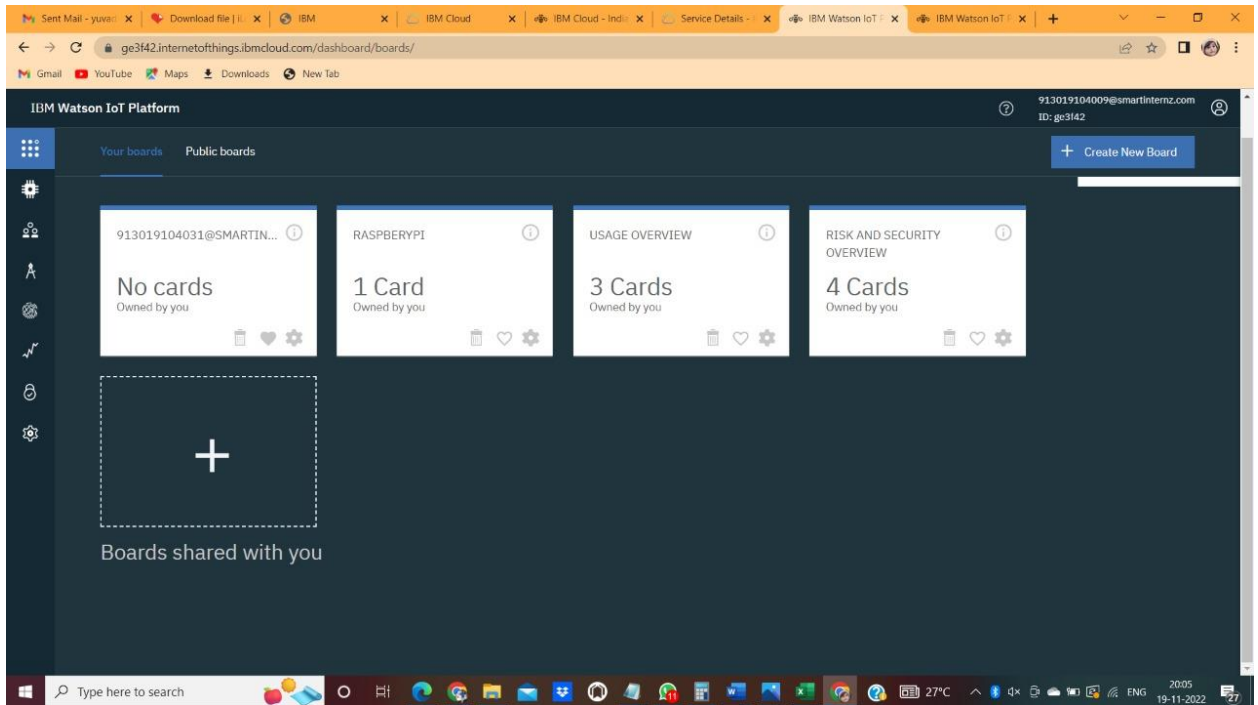
IBM Watson IoT Platform

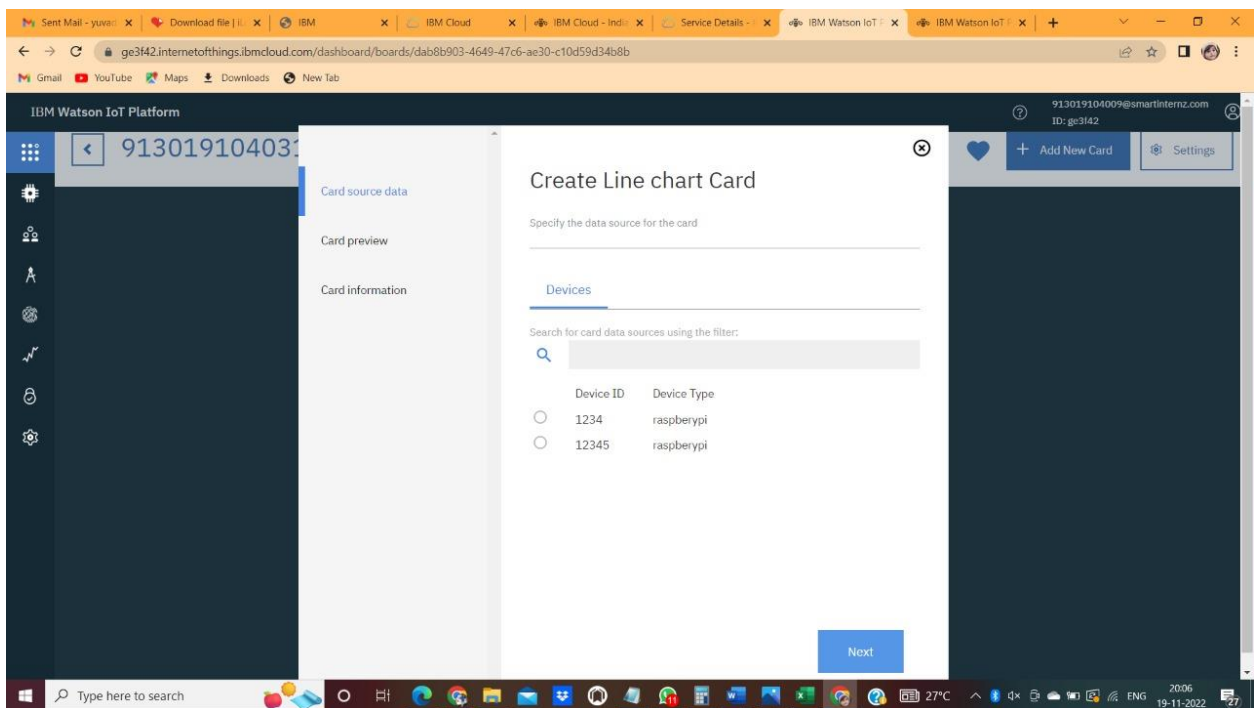
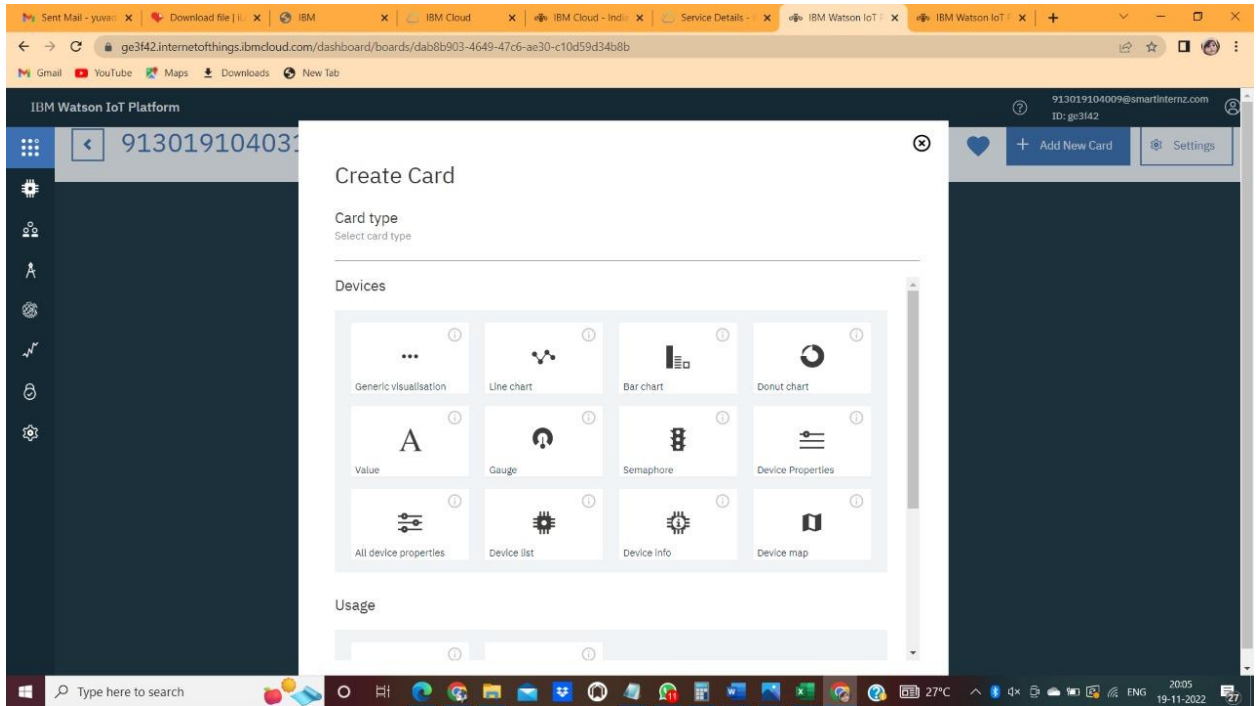
Device Drilldown - 12345

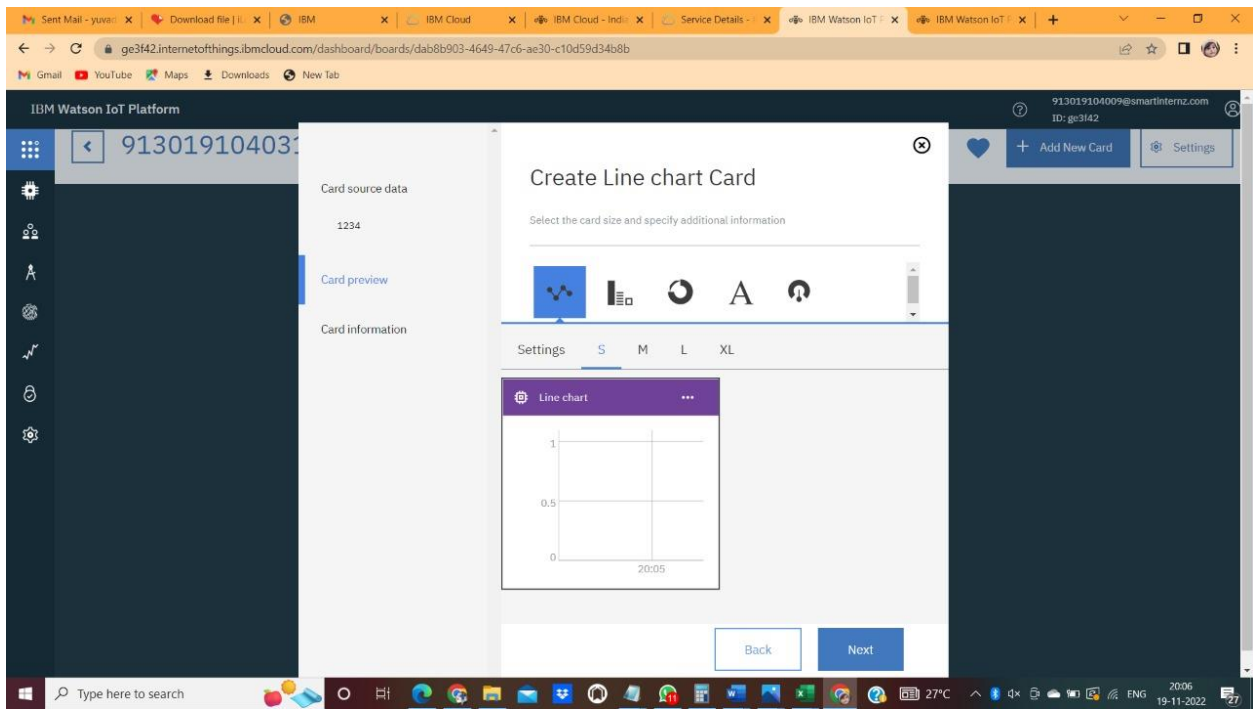
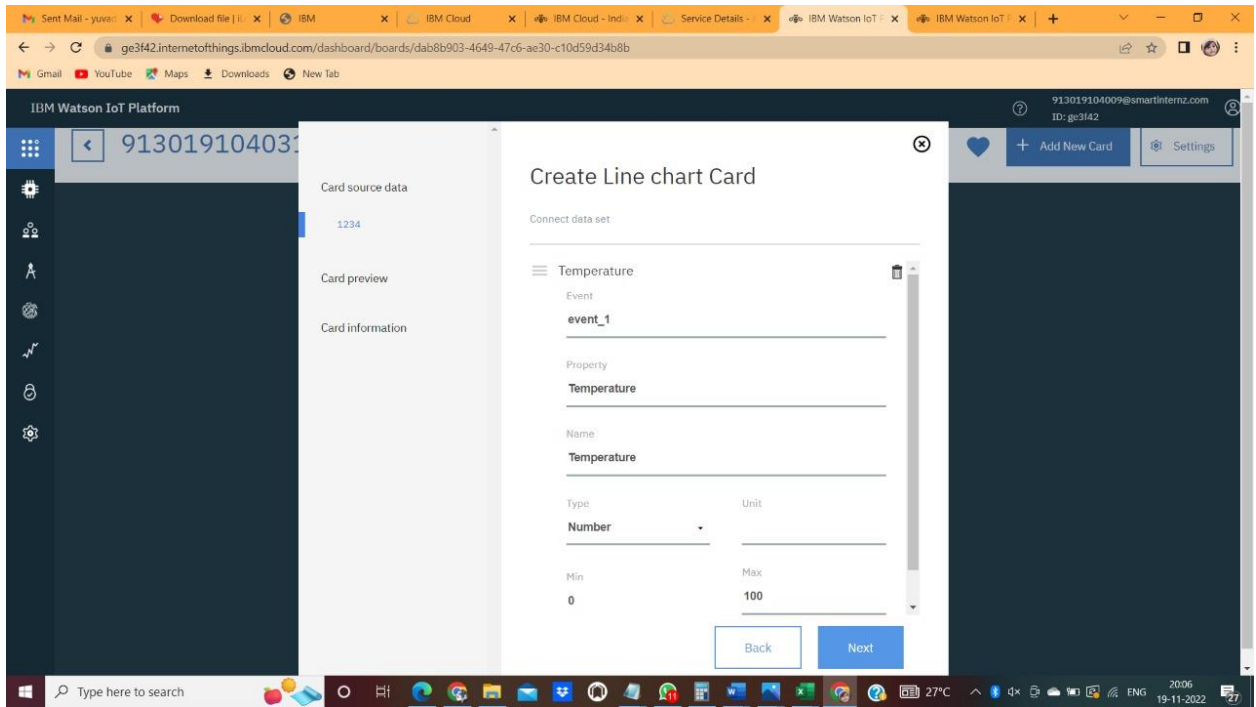
Recent Events

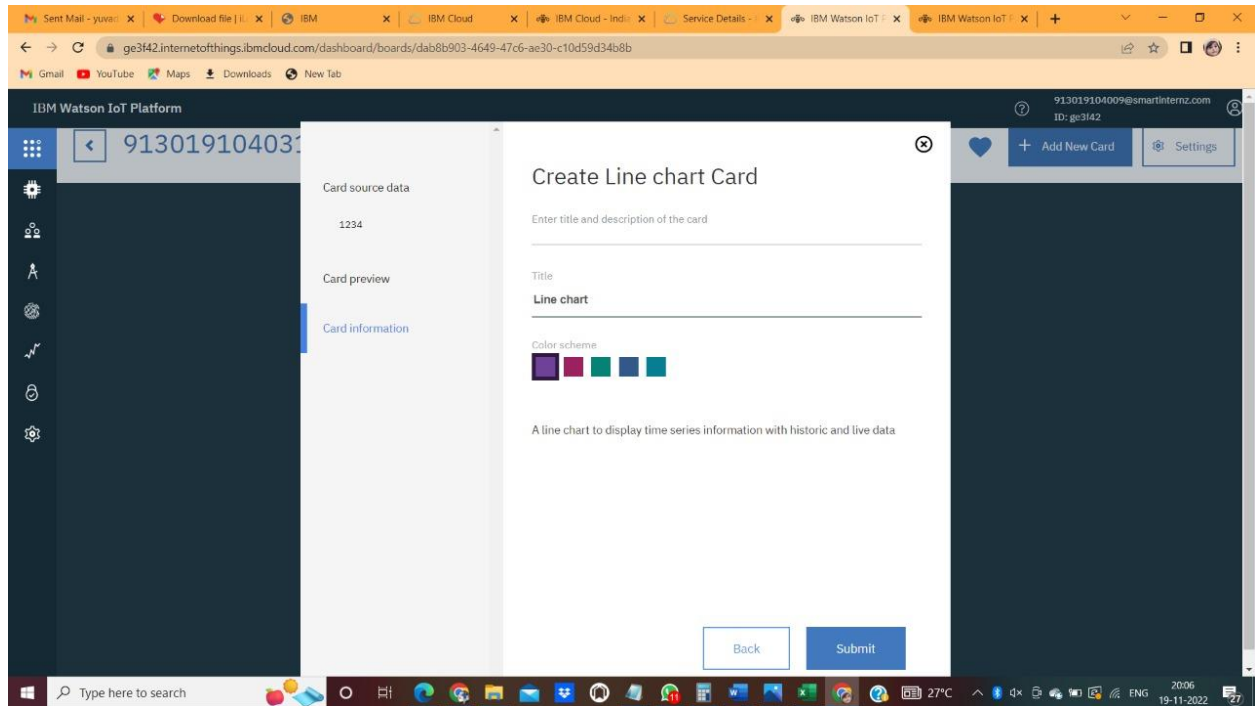
Event	Value	Format	Last Received
 Waiting for device events...			











RESULT:

Hence, we were able to send data from our pi to IBM Watson and visualize it on a chart.