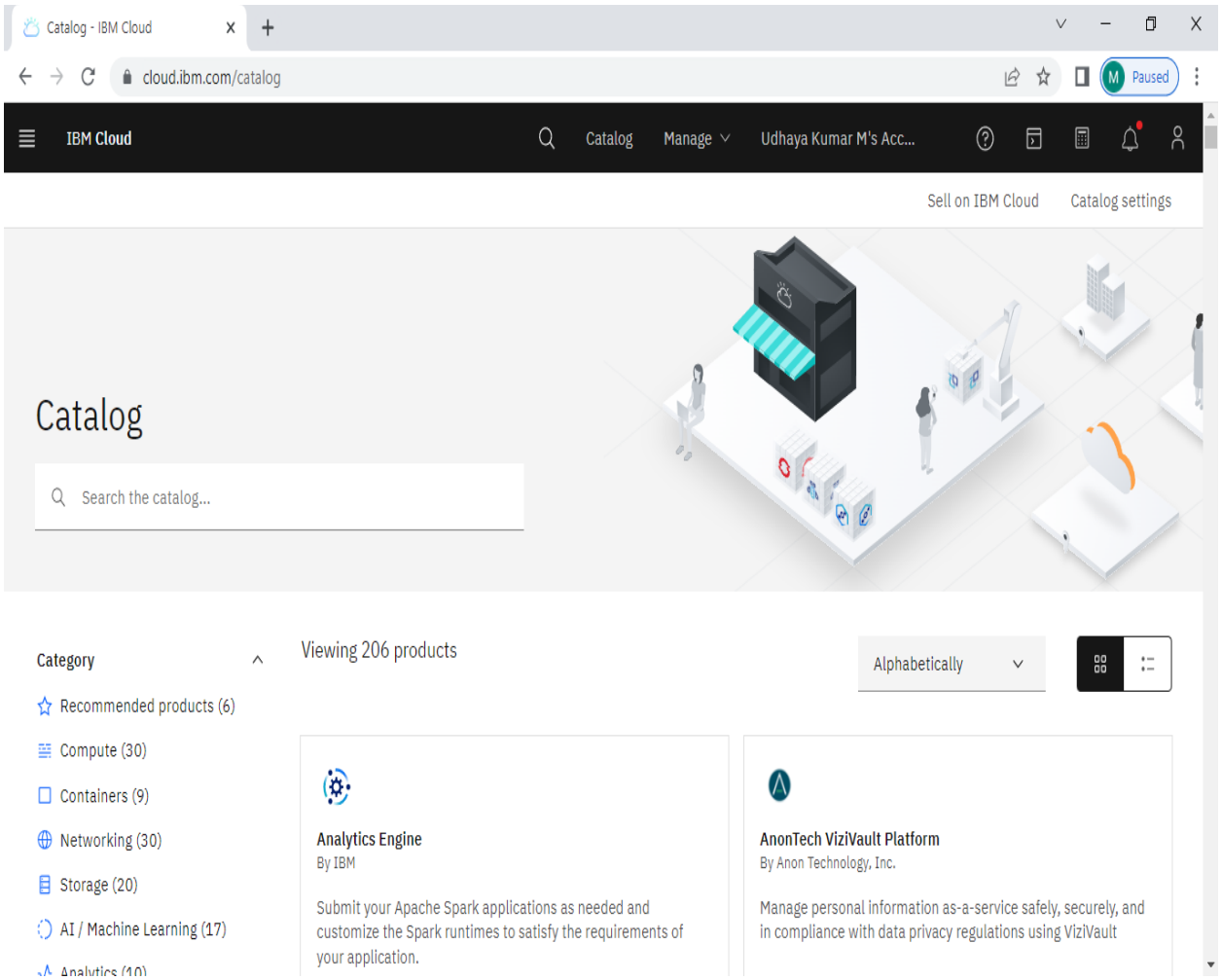
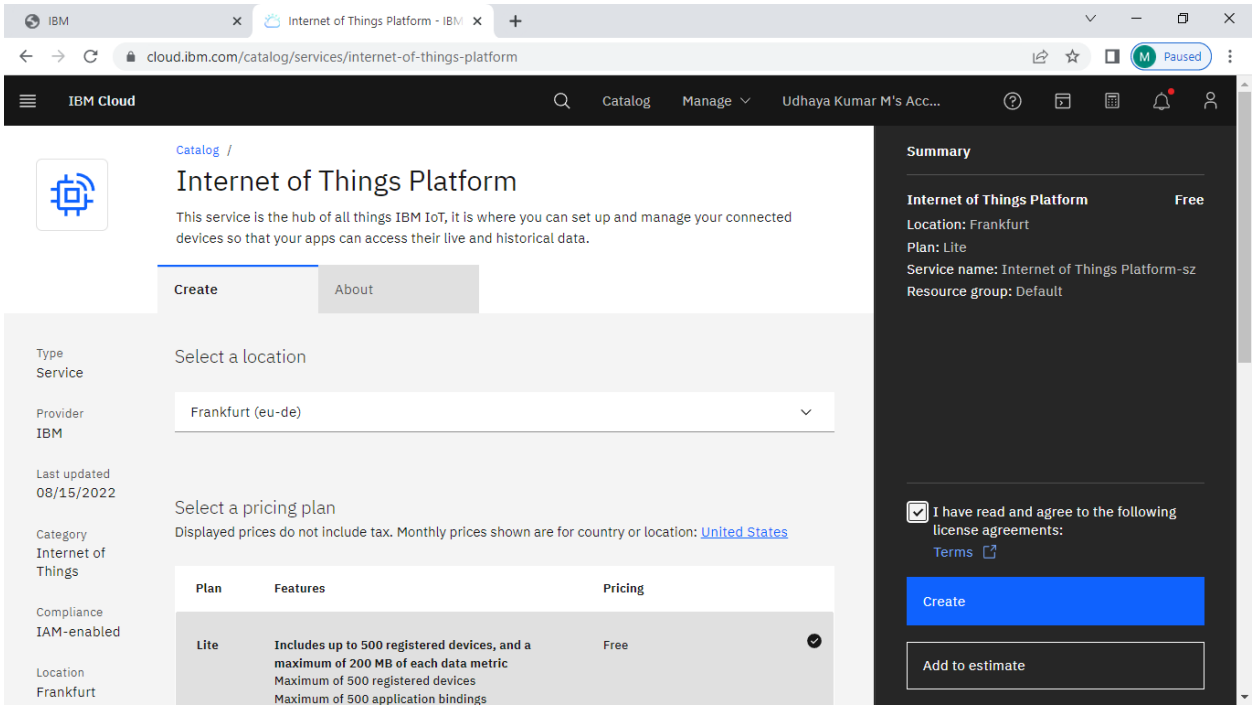
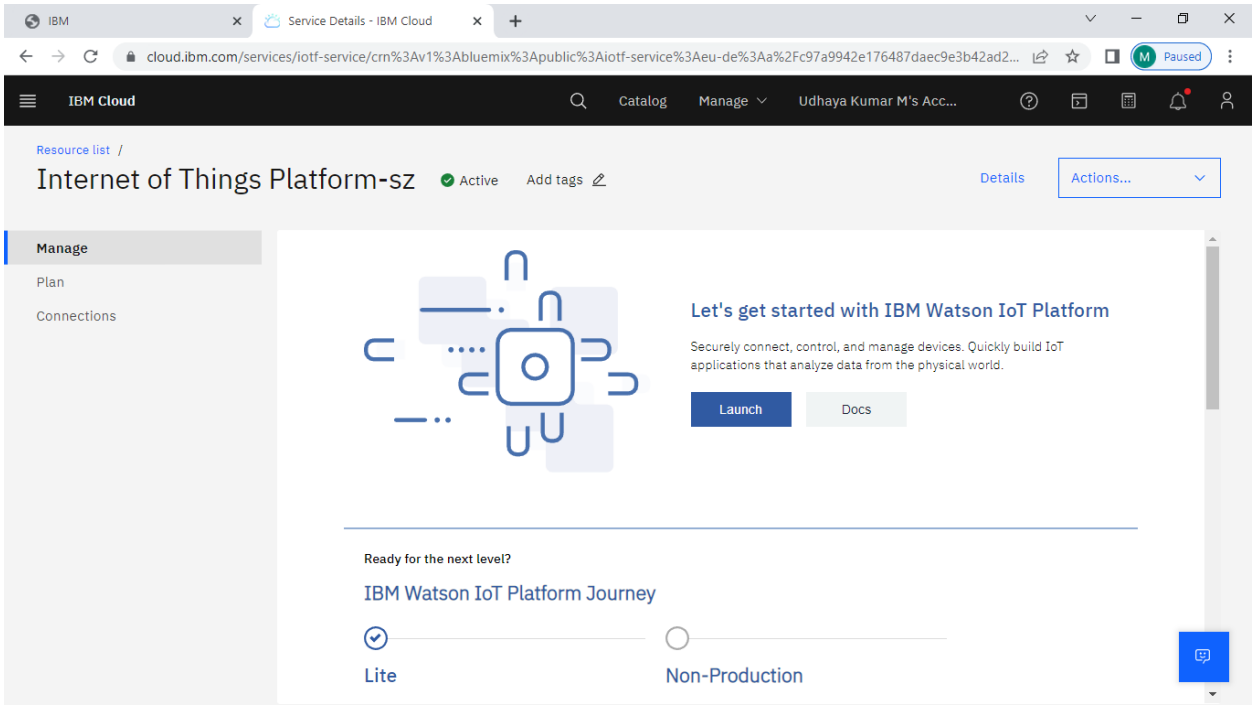
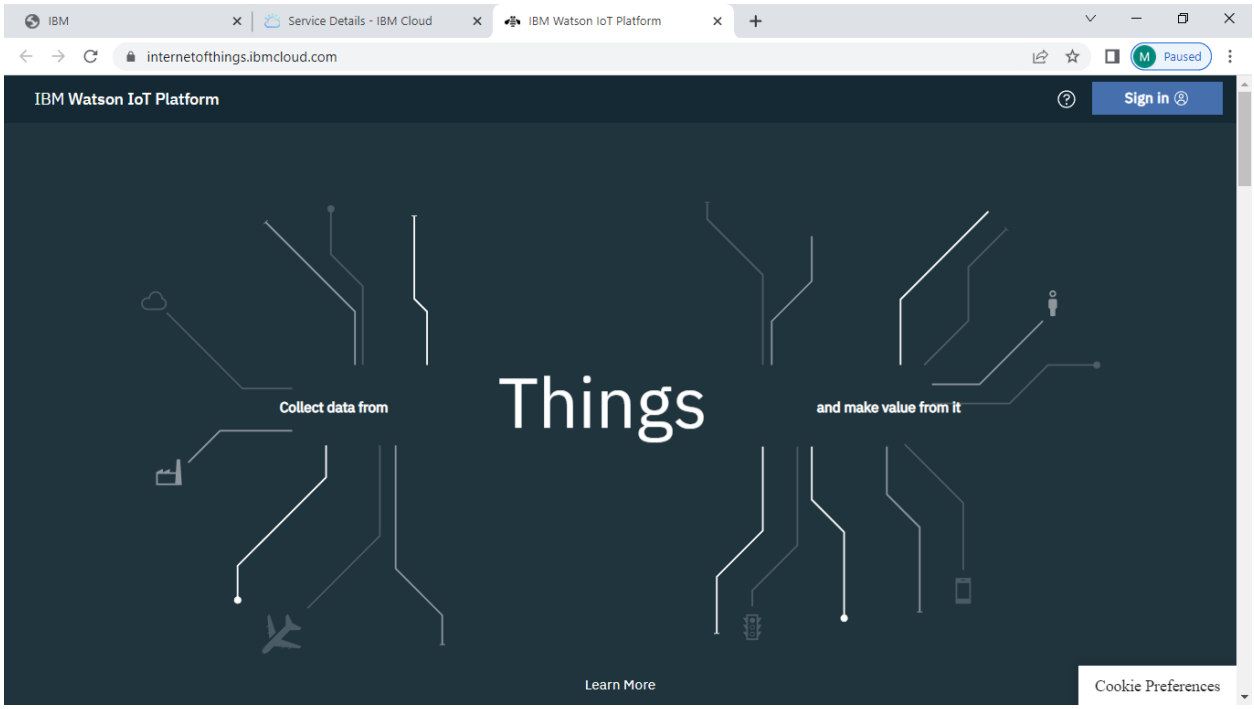
CREATE IBM WATSON IOT PLATFORM AND DEVICE

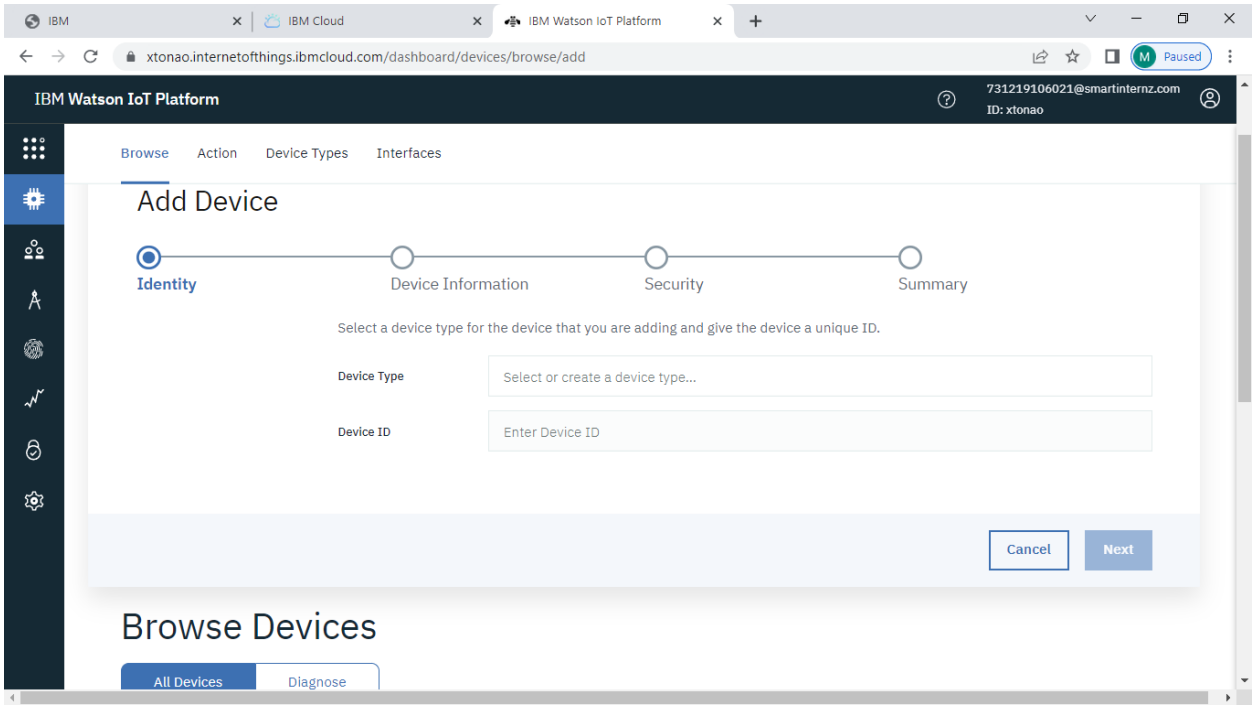
TEAM ID	PNT2022TMID44431
PROJECT NAME	Gas Leakage monitoring and alerting System

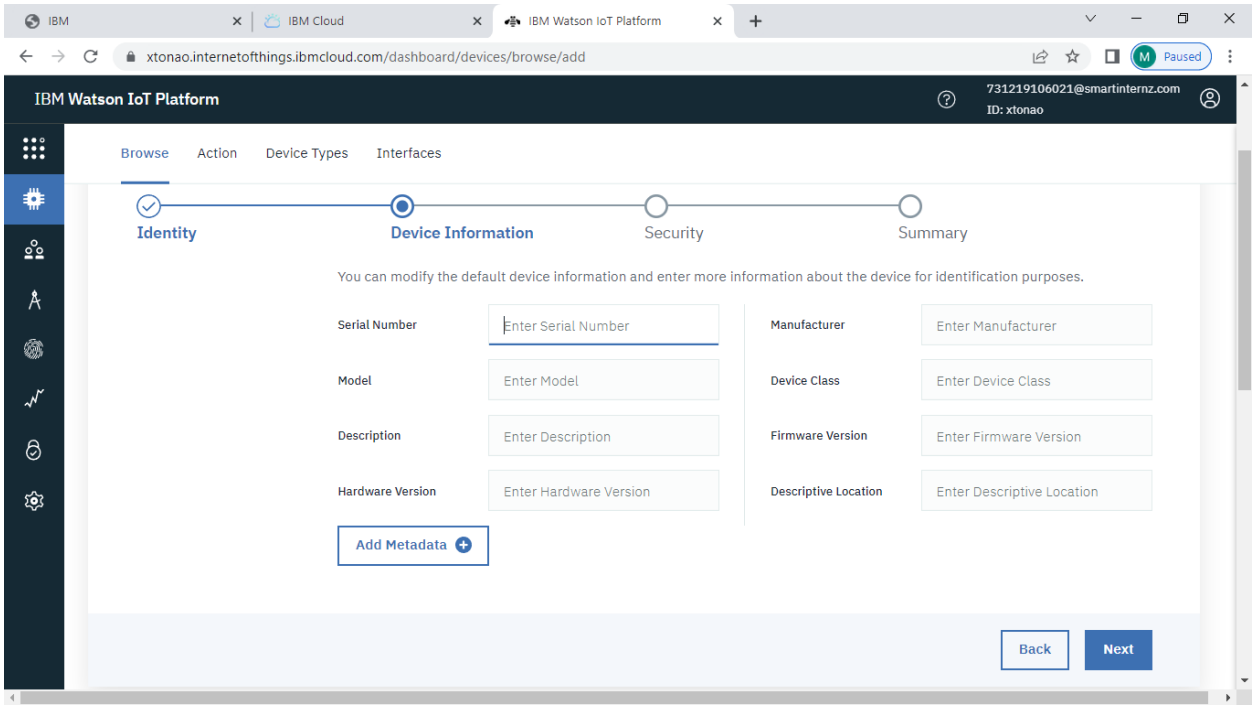


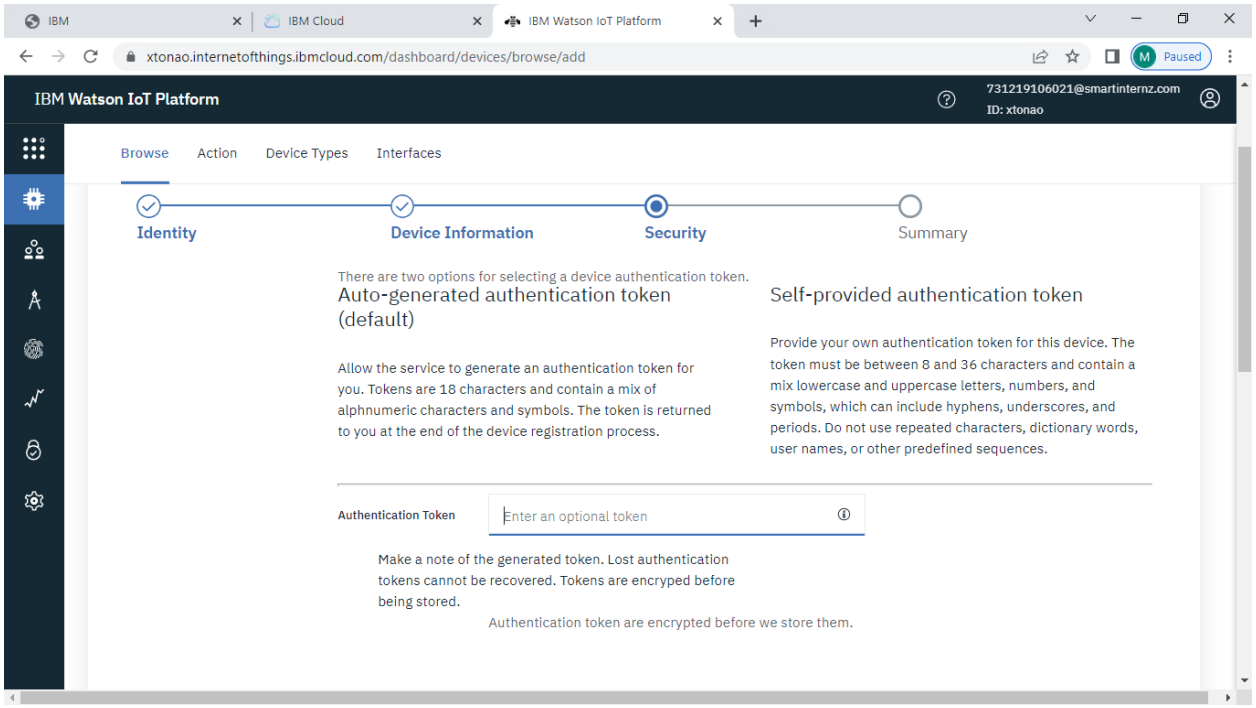

IBM
Internet of Things Platform - IBM
cloud.ibm.com/catalog/services/internet-of-things-platform
Paused
IBM Cloud
Catalog
Manage
Udhaya Kumar M's Acc...
Catalog /
Internet of Things Platform
This service is the hub of all things IBM IoT, it is where you can set up and manage your connected devices so that your apps can access their live and historical data.
Create
About
Type
Service
Provider
IBM
Last updated
08/15/2022
Category
Internet of Things
Compliance
IAM-enabled
Location
Frankfurt
Select a location
Frankfurt (eu-de)
Select a pricing plan
Displayed prices do not include tax. Monthly prices shown are for country or location: United States
Plan
Features
Pricing
Lite
Includes up to 500 registered devices, and a maximum of 200 MB of each data metric
Maximum of 500 registered devices
Maximum of 500 application bindings
Free
Summary
Internet of Things Platform
Free
Location: Frankfurt
Plan: Lite
Service name: Internet of Things Platform-sz
Resource group: Default
I have read and agree to the following license agreements:
Terms
Create
Add to estimate

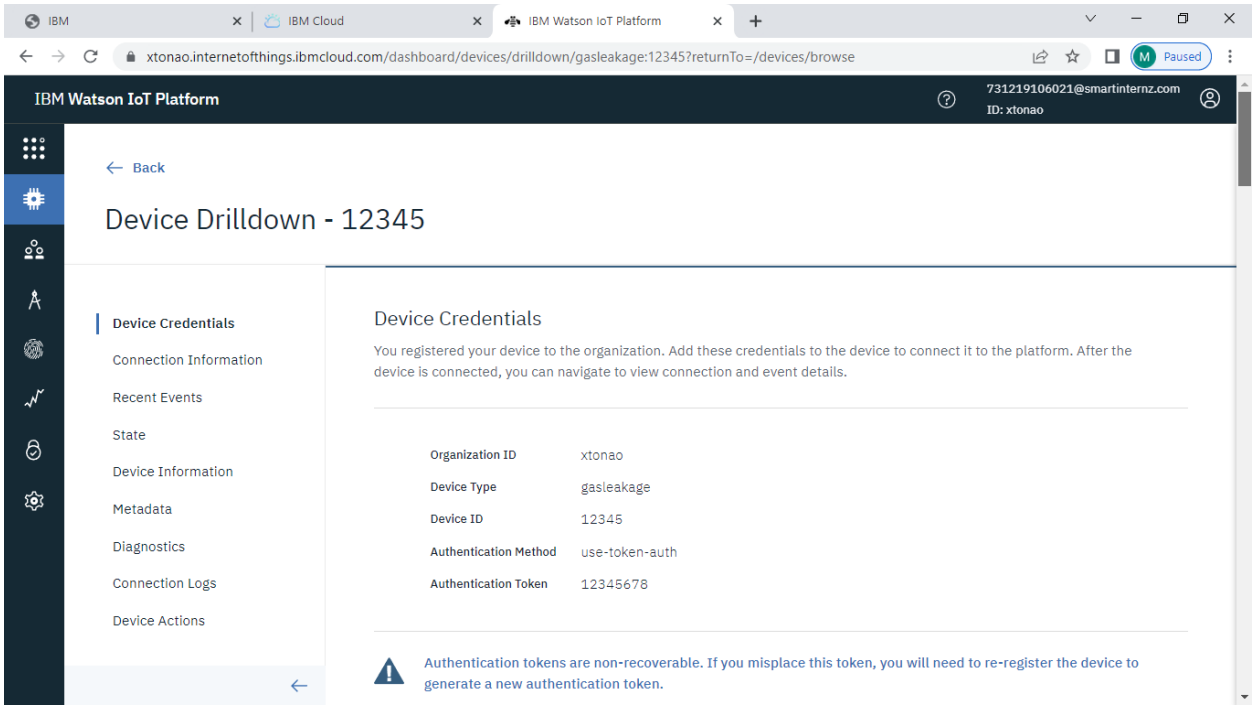

IBM
Service Details - IBM Cloud
cloud.ibm.com/services/iotf-service/crn%3Av1%3Abluemix%3Apublic%3Aiotf-service%3Aeu-de%3Aa%2Fc97a9942e176487daec9e3b42ad2...
Paused
IBM Cloud
Catalog
Manage
Udhaya Kumar M's Acc...
Resource list /
Internet of Things Platform-sz
Active
Add tags
Details
Actions...
Manage
Plan
Connections
Let's get started with IBM Watson IoT Platform
Securely connect, control, and manage devices. Quickly build IoT applications that analyze data from the physical world.
Launch
Docs
Ready for the next level?
IBM Watson IoT Platform Journey
Lite
Non-Production

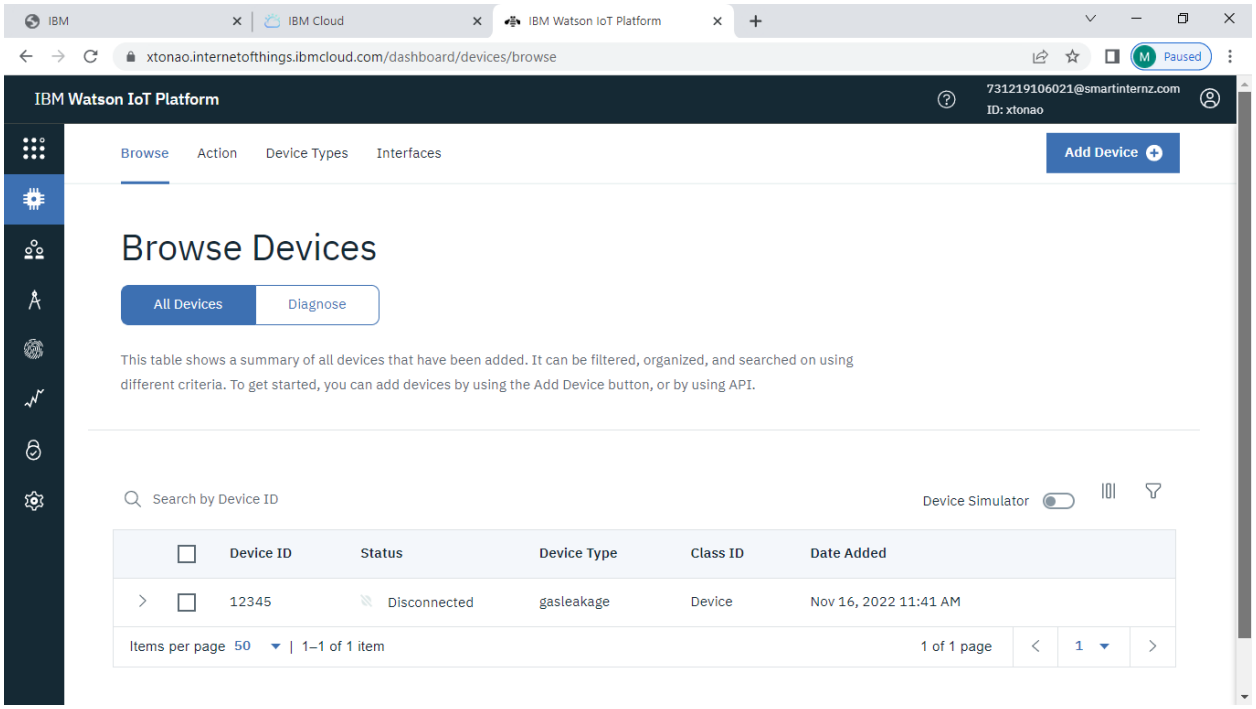

IBM
Service Details - IBM Cloud
IBM Watson IoT Platform
internetofthings.ibmcloud.com
Paused
IBM Watson IoT Platform
Sign in
Collect data from
Things
and make value from it
Learn More
Cookie Preferences

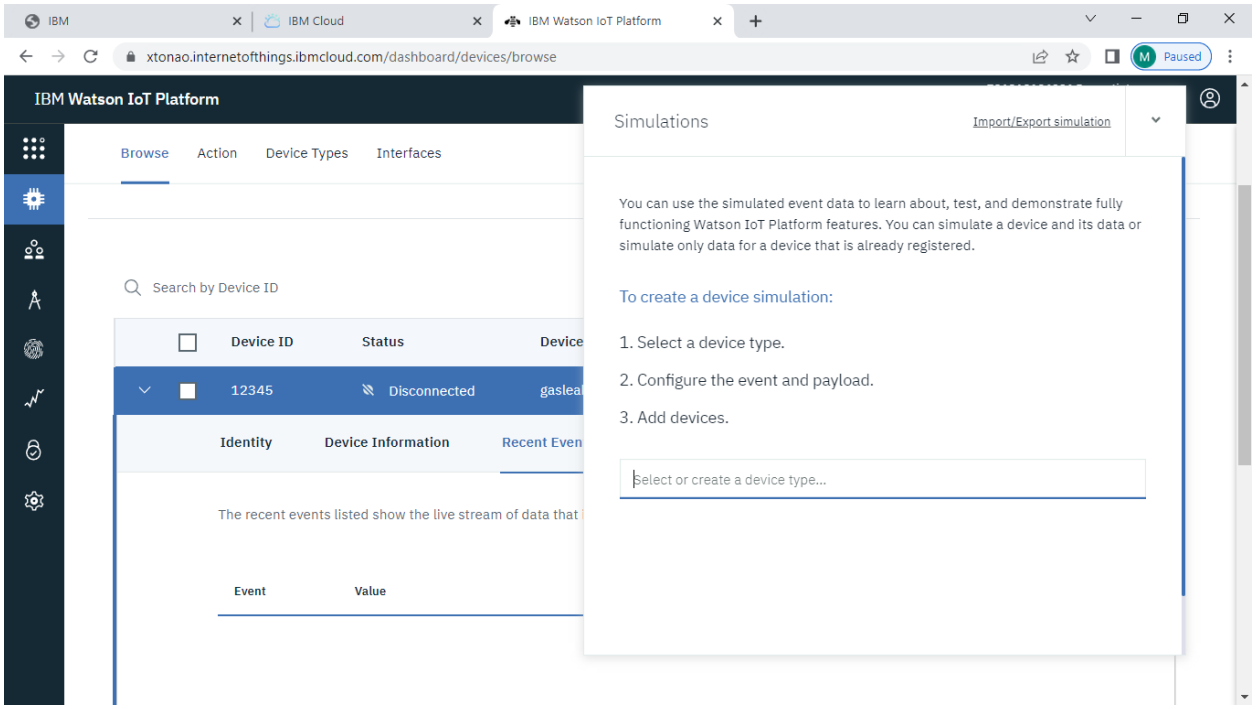

IBM
IBM Cloud
IBM Watson IoT Platform
xtonao.internetofthings.ibmcloud.com/dashboard/devices/browse/add
Paused
IBM Watson IoT Platform
731219106021@smartinternz.com
ID: xtonao
Browse
Action
Device Types
Interfaces
Add Device
Identity
Device Information
Security
Summary
Select a device type for the device that you are adding and give the device a unique ID.
Device Type
Select or create a device type...
Device ID
Enter Device ID
Cancel
Next
Browse Devices
All Devices
Diagnose

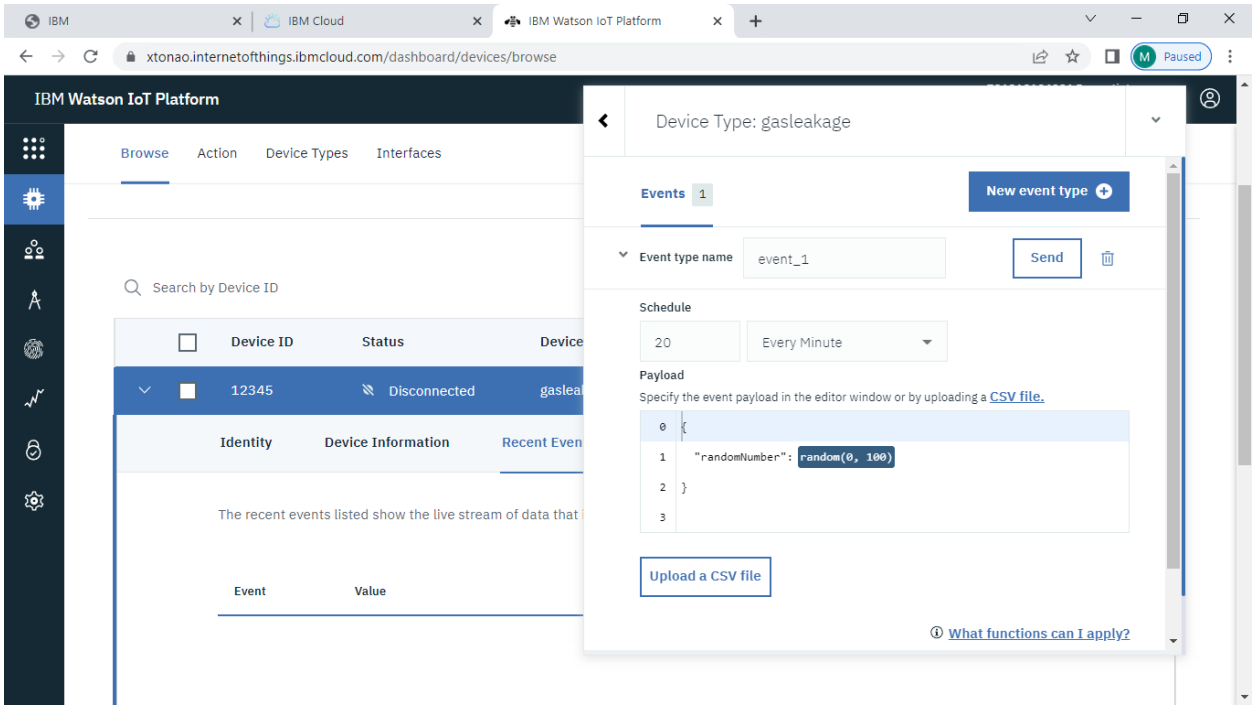

IBM
IBM Cloud
IBM Watson IoT Platform
xtonao.internetofthings.ibmcloud.com/dashboard/devices/browse/add
Paused
IBM Watson IoT Platform
731219106021@smartinternz.com
ID: xtonao
Browse
Action
Device Types
Interfaces
Identity
Device Information
Security
Summary
You can modify the default device information and enter more information about the device for identification purposes.
Serial Number
Enter Serial Number
Manufacturer
Enter Manufacturer
Model
Enter Model
Device Class
Enter Device Class
Description
Enter Description
Firmware Version
Enter Firmware Version
Hardware Version
Enter Hardware Version
Descriptive Location
Enter Descriptive Location
Add Metadata
Back
Next

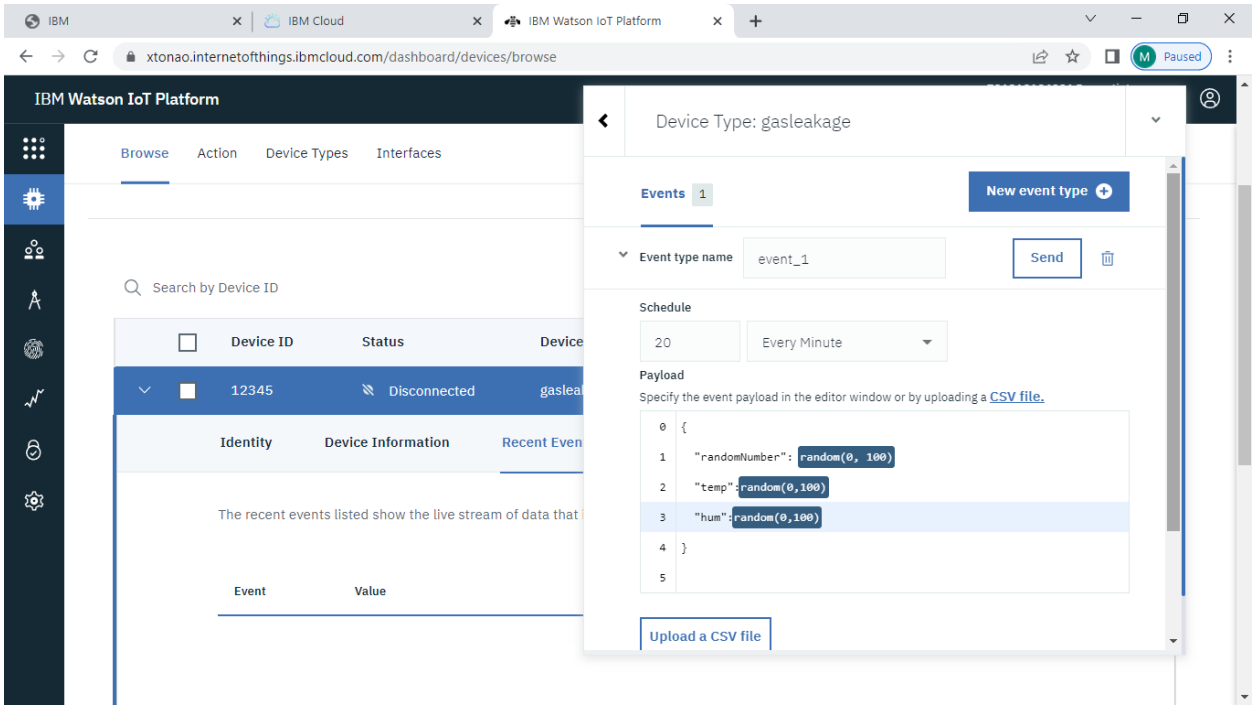

IBM
IBM Cloud
IBM Watson IoT Platform
xtonao.internetofthings.ibmcloud.com/dashboard/devices/browse/add
Paused
IBM Watson IoT Platform
731219106021@smartinternz.com
ID: xtonao
Browse
Action
Device Types
Interfaces
Identity
Device Information
Security
Summary
There are two options for selecting a device 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 alphnumeric 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 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
Enter an optional token
Make a note of the generated token. Lost authentication tokens cannot be recovered. Tokens are encryped before being stored.
Authentication token are encrypted before we store them.

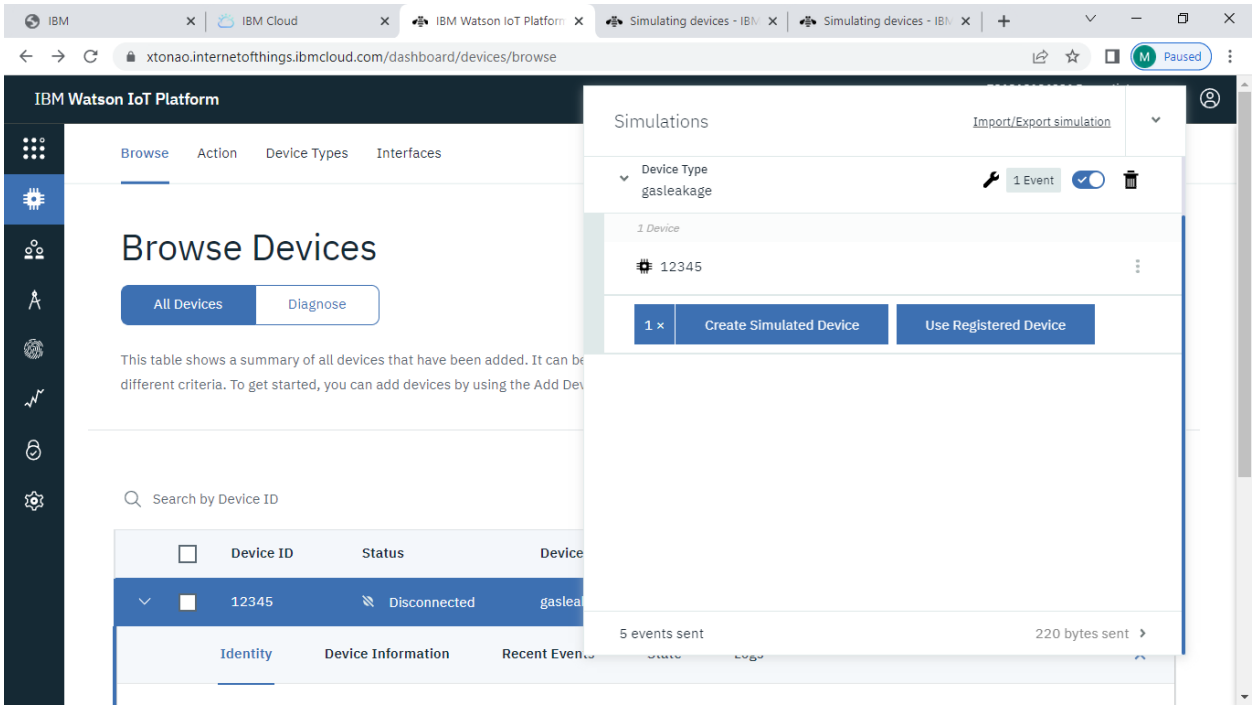

IBM
IBM Cloud
IBM Watson IoT Platform
xtonao.internetofthings.ibmcloud.com/dashboard/devices/drilldown/gasleakage:12345?returnTo=/devices/browse
Paused
IBM Watson IoT Platform
731219106021@smartinternz.com
ID: xtonao
Back
Device Drilldown - 12345
Device Credentials
Connection Information
Recent Events
State
Device Information
Metadata
Diagnostics
Connection Logs
Device Actions
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 xtonao
Device Type gasleakage
Device ID 12345
Authentication Method use-token-auth
Authentication Token 12345678
Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the device to generate a new authentication token.

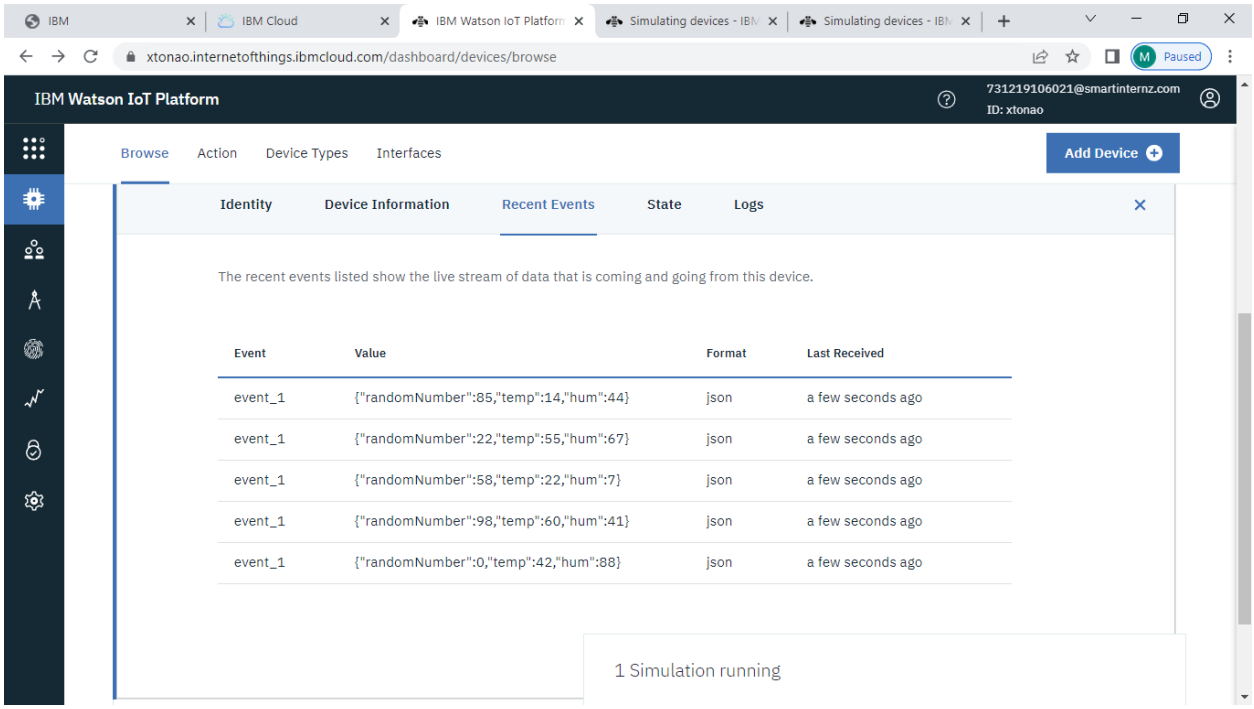

IBM
IBM Cloud
IBM Watson IoT Platform
xtonao.internetofthings.ibmcloud.com/dashboard/devices/browse
Paused
IBM Watson IoT Platform
731219106021@smartinternz.com
ID: xtonao
Browse
Action
Device Types
Interfaces
Add Device
Browse Devices
All Devices
Diagnose
This table shows a summary of all devices that 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
Device ID
Status
Device Type
Class ID
Date Added
12345
Disconnected
gasleakage
Device
Nov 16, 2022 11:41 AM
Items per page 50
1–1 of 1 item
1 of 1 page
1

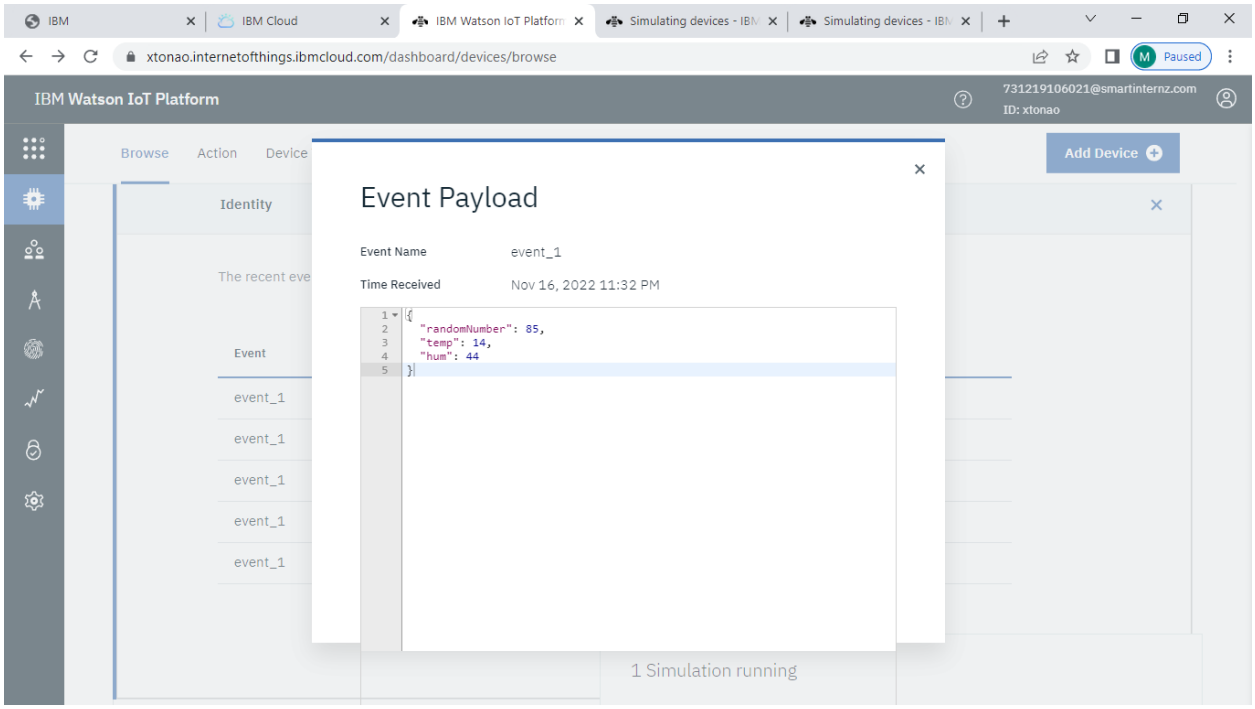

IBM
IBM Cloud
IBM Watson IoT Platform
xtonao.internetofthings.ibmcloud.com/dashboard/devices/browse
Paused
IBM Watson IoT Platform
Browse
Action
Device Types
Interfaces
Search by Device ID
Device ID
Status
Device
12345
Disconnected
gasleal
Identity
Device Information
Recent Even
The recent events listed show the live stream of data that
Event
Value
Simulations
Import/Export simulation
You can use the simulated event data to learn about, test, and demonstrate fully functioning Watson IoT Platform features. You can simulate a device and its data or simulate only data for a device that is already registered.
To create a device simulation:
1. Select a device type.
2. Configure the event and payload.
3. Add devices.
Select or create a device type...

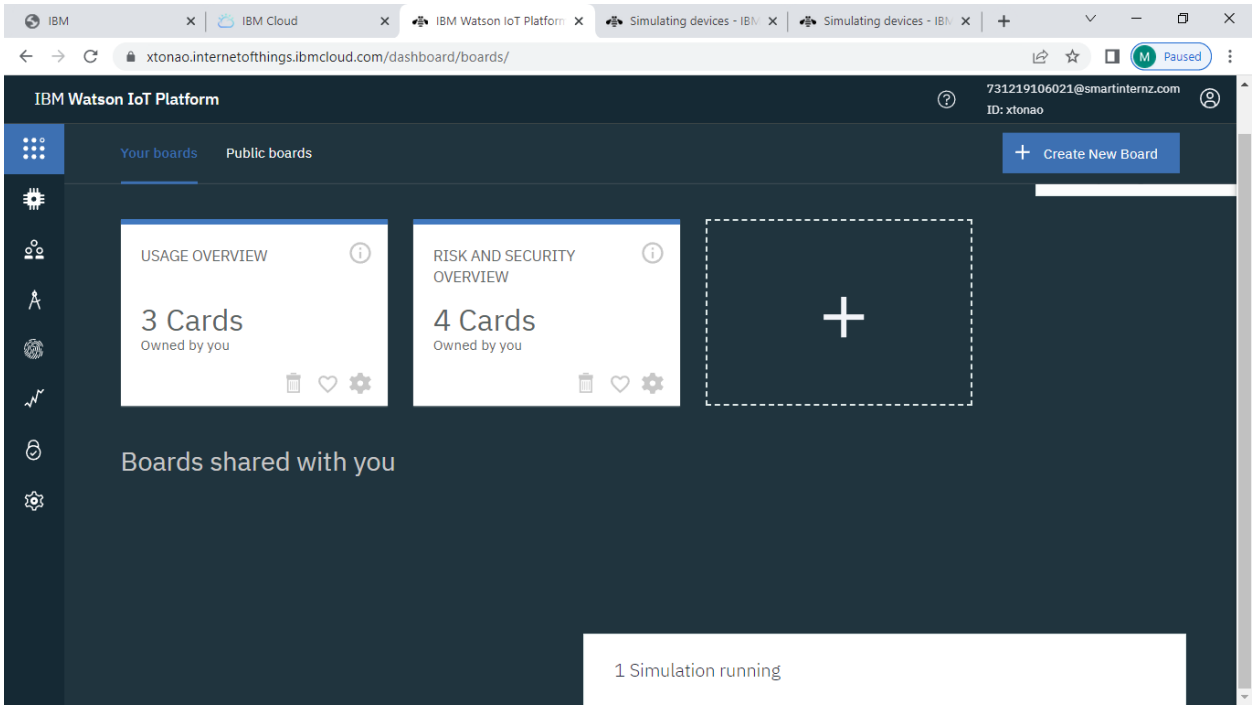

IBM
IBM Cloud
IBM Watson IoT Platform
xtonao.internetofthings.ibmcloud.com/dashboard/devices/browse
Paused
IBM Watson IoT Platform
Browse
Action
Device Types
Interfaces
Search by Device ID
Device ID
Status
Device
12345
Disconnected
gasleal
Identity
Device Information
Recent Even
The recent events listed show the live stream of data that
Event
Value
Device Type: gasleakage
Events 1
New event type
Event type name
event_1
Send
Schedule
20
Every Minute
Payload
Specify the event payload in the editor window or by uploading a CSV file.
{
"randomNumber": random(0, 100)
}
Upload a CSV file
What functions can I apply?


IBM
IBM Cloud
IBM Watson IoT Platform
xtonao.internetofthings.ibmcloud.com/dashboard/devices/browse
Paused
IBM Watson IoT Platform
Browse
Action
Device Types
Interfaces
Search by Device ID
Device ID
Status
Device
12345
Disconnected
Identity
Device Information
Recent Even
The recent events listed show the live stream of data that
Event
Value
Device Type: gasleakage
Events 1
New event type
Event type name
event_1
Send
Schedule
20
Every Minute
Payload
Specify the event payload in the editor window or by uploading a CSV file.
{
"randomNumber": random(0, 100)
"temp":random(0,100)
"hum":random(0,100)
}
Upload a CSV file


IBM
IBM Cloud
IBM Watson IoT Platform
Simulating devices - IBM
Simulating devices - IBM
xtonao.internetofthings.ibmcloud.com/dashboard/devices/browse
Paused
IBM Watson IoT Platform
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
different criteria. To get started, you can add devices by using the Add Dev
Search by Device ID
Device ID
Status
Device
12345
Disconnected
Identity
Device Information
Recent Even
Simulations
Import/Export simulation
Device Type
gasleakage
1 Event
1 Device
12345
1 ×
Create Simulated Device
Use Registered Device
5 events sent
220 bytes sent


IBM
IBM Cloud
IBM Watson IoT Platform
Simulating devices - IBM
Simulating devices - IBM
xtonao.internetofthings.ibmcloud.com/dashboard/devices/browse
Paused
IBM Watson IoT Platform
731219106021@smartinternz.com
ID: xtonao
Browse
Action
Device Types
Interfaces
Add Device
Identity
Device Information
Recent Events
State
Logs
The recent events listed show the live stream of data that is coming and going from this device.
Event
Value
Format
Last Received
event_1
{"randomNumber":85,"temp":14,"hum":44}
json
a few seconds ago
event_1
{"randomNumber":22,"temp":55,"hum":67}
json
a few seconds ago
event_1
{"randomNumber":58,"temp":22,"hum":7}
json
a few seconds ago
event_1
{"randomNumber":98,"temp":60,"hum":41}
json
a few seconds ago
event_1
{"randomNumber":0,"temp":42,"hum":88}
json
a few seconds ago
1 Simulation running


IBM
IBM Cloud
IBM Watson IoT Platform
Simulating devices - IBM
Simulating devices - IBM
xtonao.internetofthings.ibmcloud.com/dashboard/devices/browse
Paused
IBM Watson IoT Platform
731219106021@smartinternz.com
ID: xtonao
Browse
Action
Device
Add Device
Identity
Event Payload
Event Name
event_1
Time Received
Nov 16, 2022 11:32 PM
{
"randomNumber": 85,
"temp": 14,
"hum": 44
}
Event
event_1
event_1
event_1
event_1
event_1
1 Simulation running


IBM
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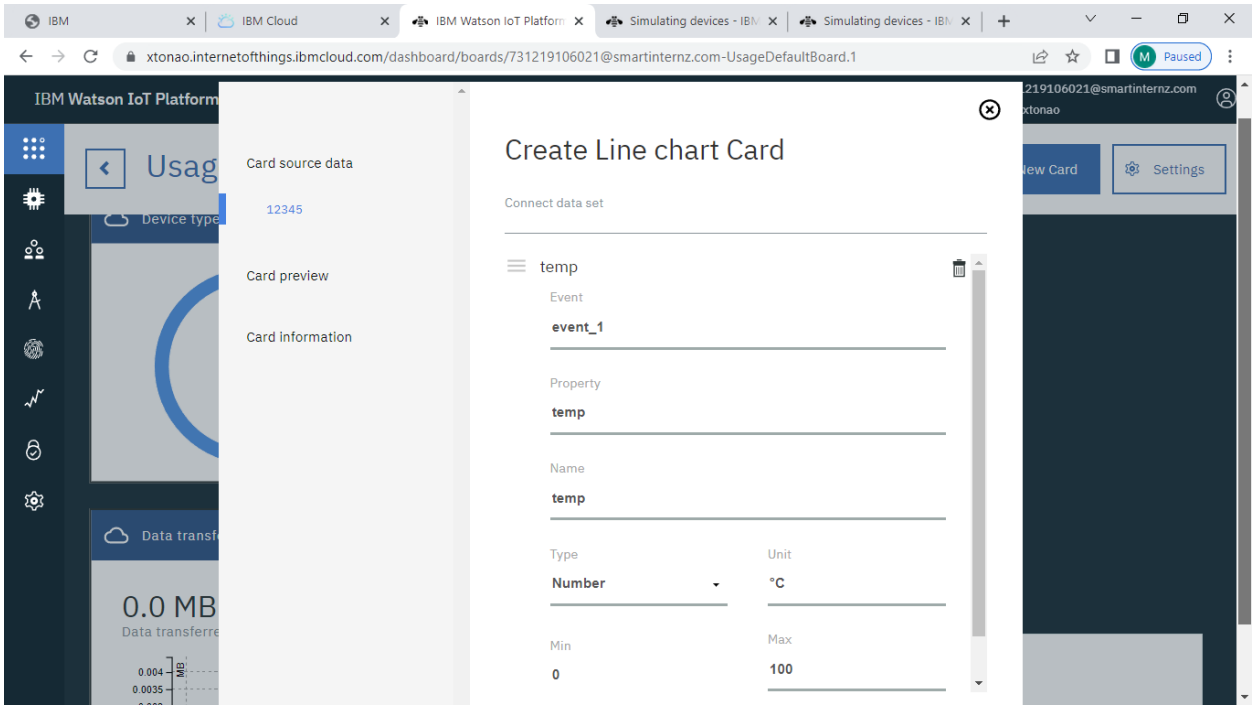
IBM Watson IoT Platform
Simulating devices - IBM
Simulating devices - IBM
xtonao.internetofthings.ibmcloud.com/dashboard/boards/
Paused
IBM Watson IoT Platform
731219106021@smartinternz.com
ID: xtonao
Your boards
Public boards
Create New Board
USAGE OVERVIEW
3 Cards
Owned by you
RISK AND SECURITY OVERVIEW
4 Cards
Owned by you
Boards shared with you
1 Simulation running


IBM
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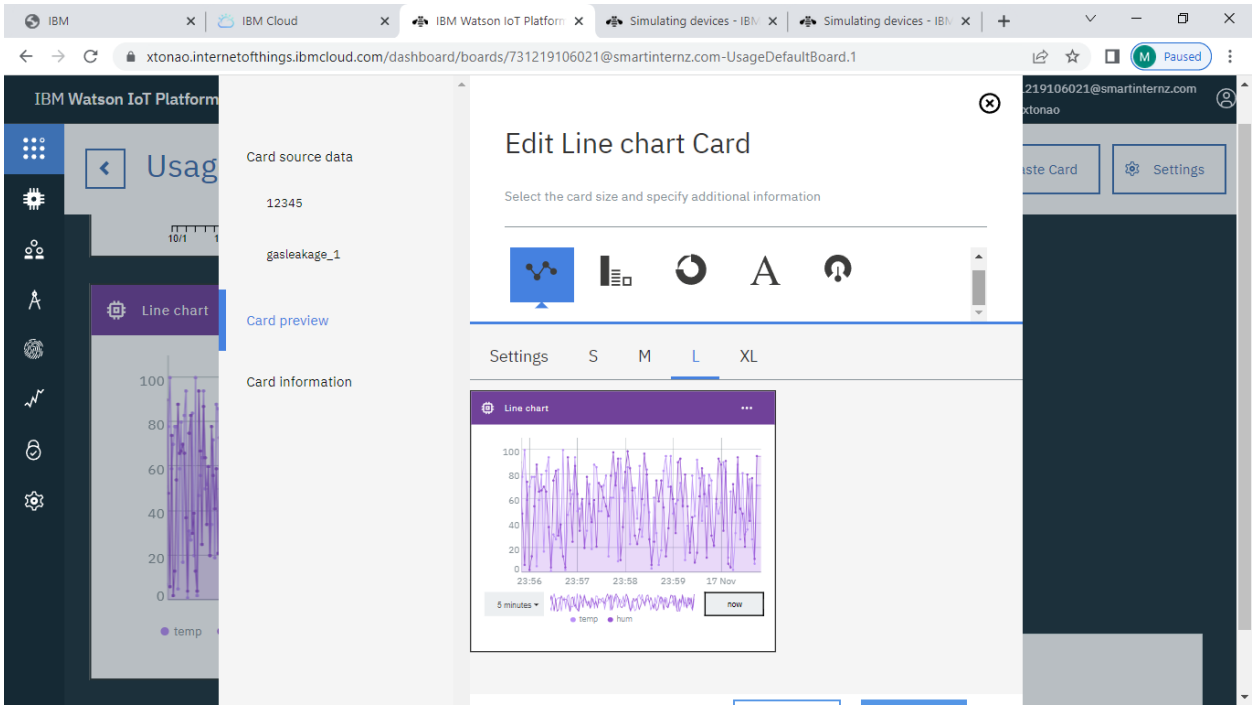
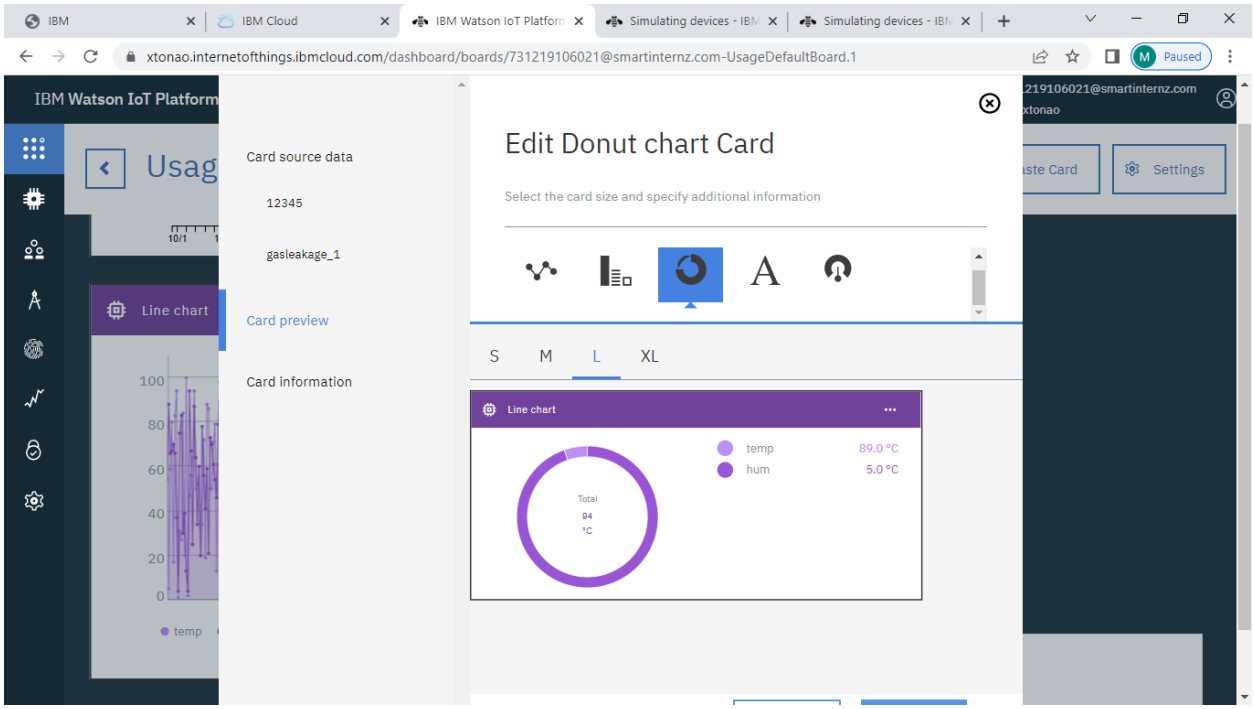
IBM Watson IoT Platform
Simulating devices - IBM
Simulating devices - IBM
xtonao.internetofthings.ibmcloud.com/dashboard/boards/731219106021@smartinternz.com-UsageDefaultBoard.1
Paused
IBM Watson IoT Platform
Card source data
12345
Card preview
Card information
Create Line chart Card
Connect data set
temp
Event
event_1
Property
temp
Name
temp
Type
Number
Unit
°C
Min
0
Max
100
Settings
0.0 MB


IBM Watson IoT Platform
Edit Line chart Card
Select the card size and specify additional information
Settings
S
M
L
XL
Card source data
12345
gasleakage_1
Card preview
Card information
Line chart
temp
hum
Settings


IBM Watson IoT Platform
Edit Donut chart Card
Select the card size and specify additional information
S
M
L
XL
Card source data
12345
gasleakage_1
Card preview
Card information
Line chart
temp
89.0 °C
hum
5.0 °C
Total
94
°C
Settings