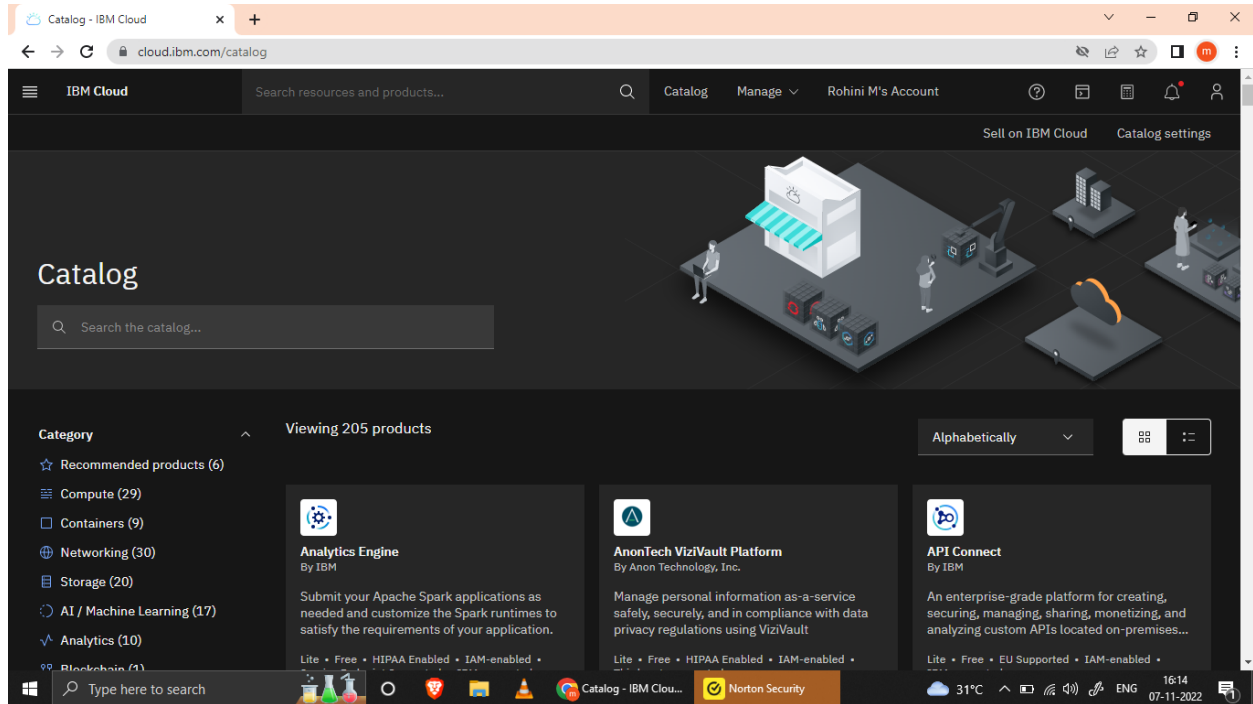


CREATE AND CONFIGURE IBM CLOUD SERVICES

TEAM ID : PNT2022TMID33893

IBM WATSON CREATION

Step 1: Click **catalog**



Step 2: Click on **create**.

Internet of Things Platform - IBM x

cloud.ibm.com/catalog/services/internet-of-things-platform

IBM Cloud Search resources and products... Catalog Manage Rohini M's Account

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 London Dallas Washington DC

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 Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed	Free

Summary

Internet of Things Platform Free

Location: Frankfurt

Plan: Lite

Service name: Internet of Things Platform-83

Resource group: Default

☒ I have read and agree to the following license agreements: [Terms](#)

Create

Add to estimate

Type here to search

Internet of Things P... Norton Security

31°C 16:16 07-11-2022

https://cloud.ibm.com/services/iot x

cloud.ibm.com/services/iotf-service/crn%3Av1%3Abluemix%3Apublic%3Aiotf-service%3Aeu-de%3Aa%2F543a7a02a4c146c08d2c4ae7d78db2e4%3Adb48b85-abf9-48...

IBM Cloud Search resources and products... Catalog Manage Rohini M's Account

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.

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Frankfurt (eu-de)

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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 Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed	Free

Summary

Internet of Things Platform Free

Location: Frankfurt

Plan: Lite

Service name: Internet of Things Platform-83

Resource group: Default

☒ I have read and agree to the following license agreements: [Terms](#)

Creating...

Add to estimate

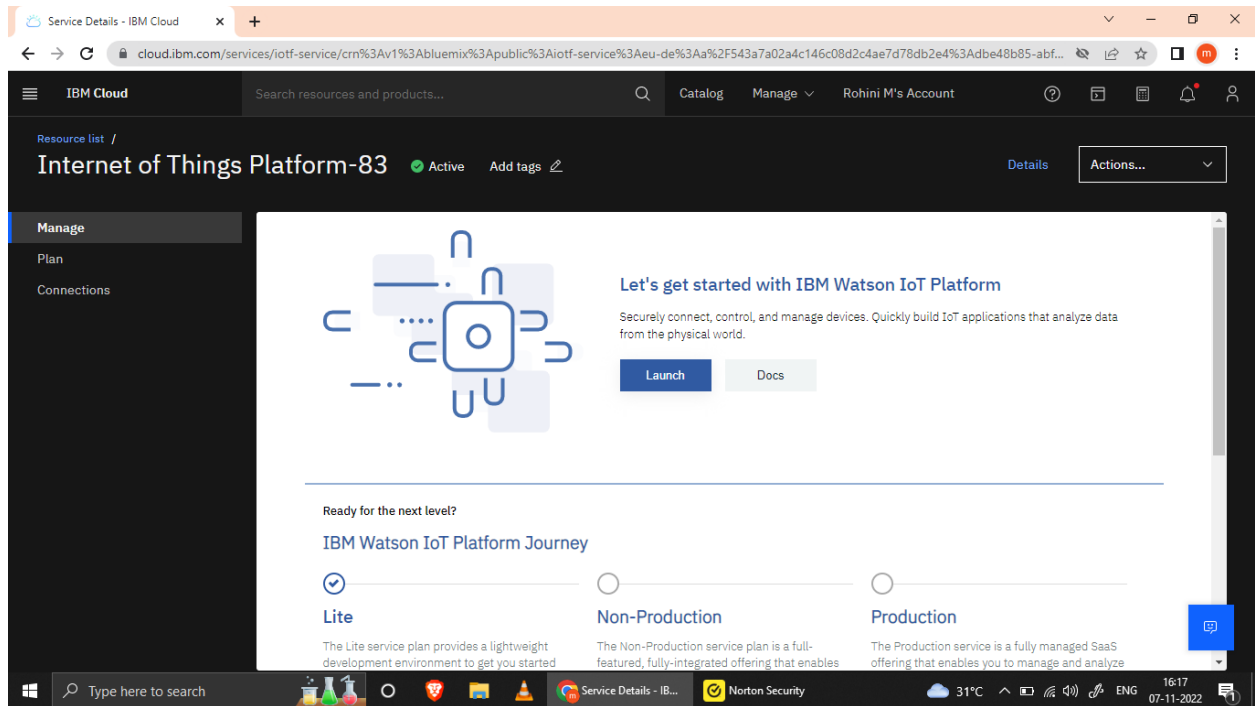
Waiting for apisegment.io...

Type here to search

Internet of Things P... Norton Security

31°C 16:16 07-11-2022

Step 3: Select **launch**.



Service Details - IBM Cloud

cloud.ibm.com/services/iotf-service/crn%3Av1%3Abluemix%3Apublic%3Aiotf-service%3Aeu-de%3Aa%2F543a7a02a4c146c08d2c4ae7d78db2e4%3Adbe48b85-abf...

IBM Cloud

Search resources and products...

Resource list /

Internet of Things Platform-83 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

The Lite service plan provides a lightweight development environment to get you started

☐ Non-Production

The Non-Production service plan is a full-featured, fully-integrated offering that enables

☐ Production

The Production service is a fully managed SaaS offering that enables you to manage and analyze

Type here to search

Service Details - IB...

Norton Security

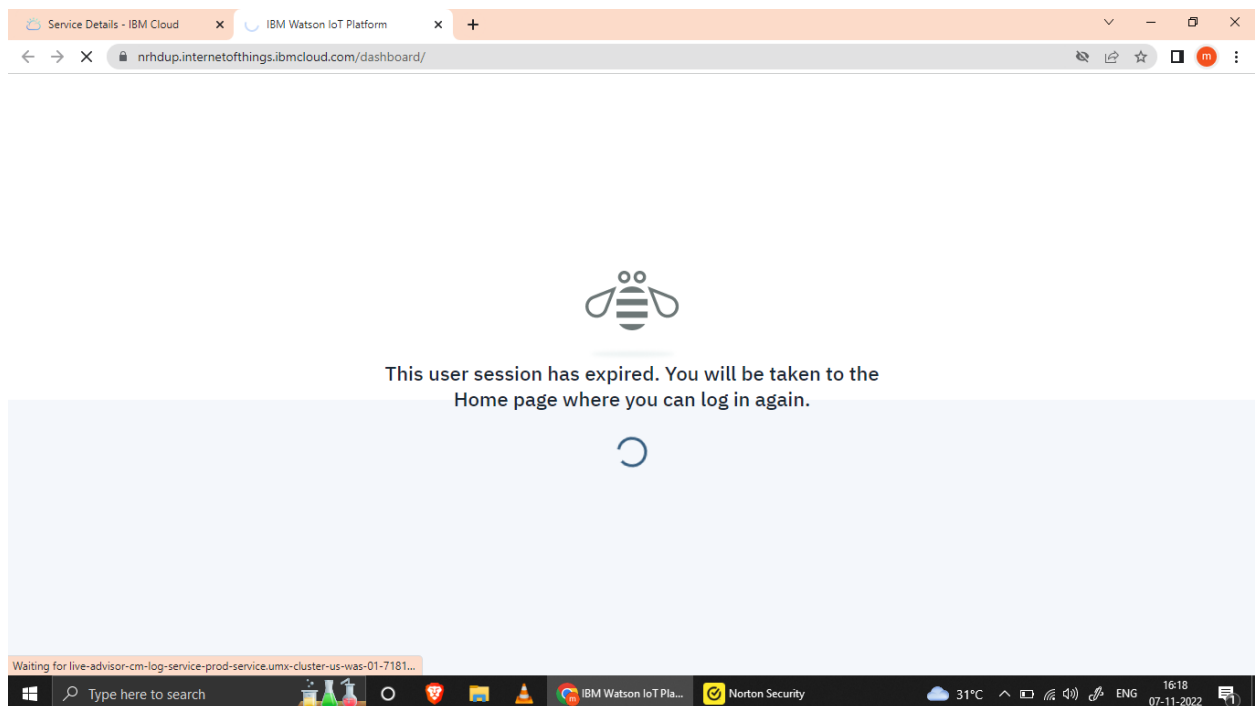
31°C

ENG

16:17

07-11-2022


Step 4:




Service Details - IBM Cloud

IBM Watson IoT Platform

nrhdup.internetofthings.ibmcloud.com/dashboard/



This user session has expired. You will be taken to the Home page where you can log in again.



Waiting for live-advisor-cm-log-service-prod-service.umx-cluster-us-was-01-7181...

Type here to search

IBM Watson IoT Pla...

Norton Security

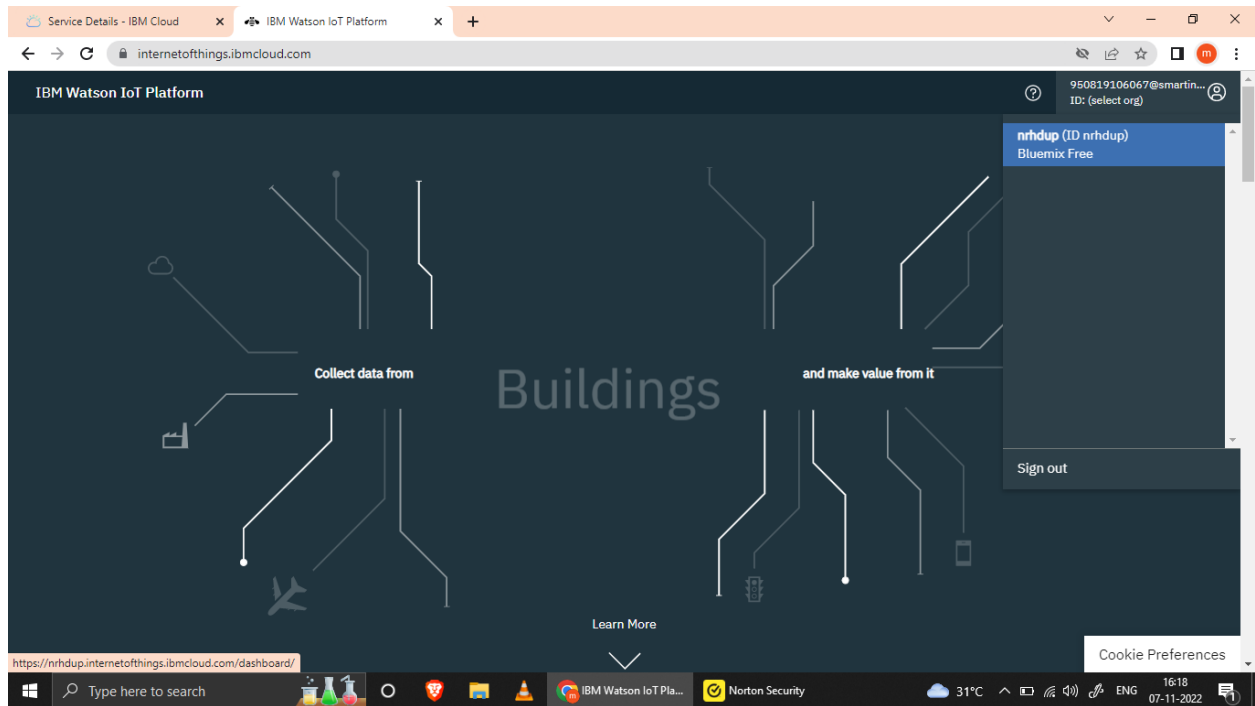
31°C

ENG

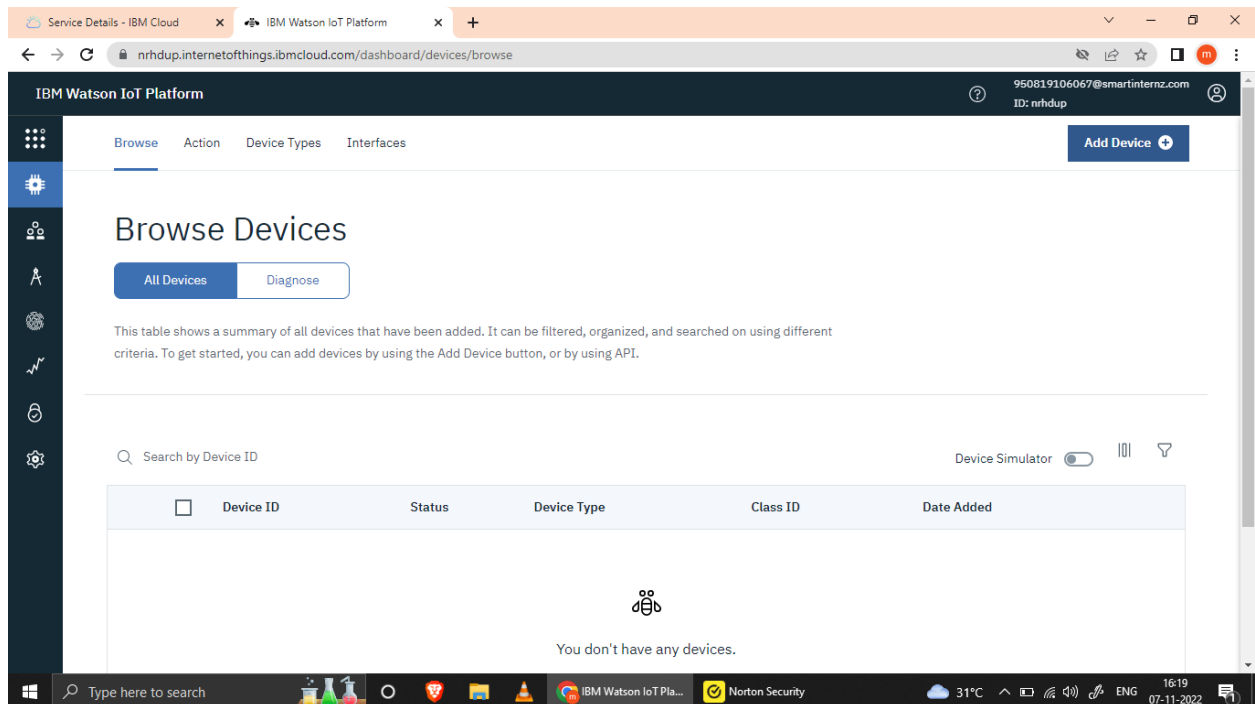
16:18

07-11-2022

Step 5: Select the device.



Step 6: Click on add device.



Step 7: Enter device type and device ID.

The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform. The 'Identity' step is selected, and the 'Device ID' field is highlighted. The 'Device Type' is set to 'sensor' and the 'Device ID' is '1234'. The 'Next' button is visible at the bottom right.

IBM Watson IoT Platform

950819106067@smartinternz.com
ID: nrhdup

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: sensor

Device ID: 1234

Cancel Next

Step 8: Click next.

The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform. The 'Device Information' step is selected, and the 'Next' button is highlighted. The 'Device ID' field is highlighted. The 'Device Type' is set to 'sensor' and the 'Device ID' is '1234'. The 'Next' button is visible at the bottom right.

IBM Watson IoT Platform

950819106067@smartinternz.com
ID: nrhdup

Browse Action Device Types Interfaces

Add Device

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

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

Add Metadata +

Back Next

Step 9: Enter authentication token.

The screenshot shows the 'Add Device' page in the IBM Watson IoT Platform. The page is titled 'Add Device' and has a navigation bar with 'Browse', 'Action', 'Device Types', and 'Interfaces'. The 'Browse' tab is selected. The page content is divided into two columns: 'Auto-generated authentication token (default)' and 'Self-provided authentication token'. The 'Auto-generated' column is active, showing a text input field with the value '12345678'. Below the input field, there is a warning message: 'Make a note of the generated token. Lost authentication tokens cannot be recovered. Tokens are encrypted before being stored.' and a note: 'Authentication tokens are encrypted before we store them.' At the bottom right, there are 'Back' and 'Next' buttons. The browser's address bar shows the URL 'nrhdup.internetofthings.ibmcloud.com/dashboard/devices/browse/add'. The taskbar at the bottom shows various icons, including the Windows logo, search bar, and several application icons.

IBM Watson IoT Platform

950819106067@smartinternz.com
ID: nrhdup

Browse Action Device Types Interfaces

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 alphanumeric characters and symbols. The token is returned to you at the end of the device registration process.

Authentication Token

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

Authentication tokens are encrypted before we store them.

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 of 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.

Back Next

Type here to search

IBM Watson IoT Platform

Norton Security

31°C

ENG

16:19
07-11-2022

Step 10: Click finish.

The screenshot shows the 'Add Device' page in the IBM Watson IoT Platform, Step 10: Click finish. The page is titled 'Add Device' and has a navigation bar with 'Browse', 'Action', 'Device Types', and 'Interfaces'. The 'Browse' tab is selected. The page content shows a progress bar with four steps: 'Identity', 'Device Information', 'Security', and 'Summary'. The 'Summary' step is the current step, indicated by a blue circle. Below the progress bar, there is a message: 'Verify that the following information is correct then select Finish'. The information displayed is: 'Device Type: sensor', 'Device ID: 1234', 'View Metadata' button, 'Security Token: 12345678'. At the bottom right, there are 'Back' and 'Finish' buttons. The browser's address bar shows the URL 'nrhdup.internetofthings.ibmcloud.com/dashboard/devices/browse/add'. The taskbar at the bottom shows various icons, including the Windows logo, search bar, and several application icons.

IBM Watson IoT Platform

950819106067@smartinternz.com
ID: nrhdup

Browse Action Device Types Interfaces

Add Device

Identity Device Information Security Summary

Verify that the following information is correct then select Finish

Device Type
sensor

Device ID
1234

View Metadata

Security Token
12345678

Back Finish

Type here to search

IBM Watson IoT Platform

Norton Security

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16:19
07-11-2022

Step 11:

IBM Watson IoT Platform

← Back

Device Drilldown - 1234

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	nrhdup
Device Type	sensor
Device ID	1234
Authentication Method	use-token-auth
Authentication Token	12345678

Warning: 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](#)

Service Details - IBM Cloud | IBM Watson IoT Platform

nrhdup.internetofthings.ibmcloud.com/dashboard/devices/drilldown/sensor:1234?returnTo=/devices/browse

950819106067@smartinternz.com
ID: nrhdup

Type here to search

IBM Watson IoT Pla... Norton Security 31°C 16:20 07-11-2022

Step 12: Select **add device** and ON device simulation.

IBM Watson IoT Platform

Browse Action Device Types Interfaces

Add Device

Search by Device ID

Device Simulator ☒

Device ID	Status	Device Type	Class ID	Date Added
1234	Disconnected	sensor	Device	Nov 7, 2022 4:19 PM

Identity Device Information Recent Events State Logs

Device ID	1234
Device Type	sensor
Date Added	Nov 7, 2022 4:19 PM
Added By	950819106067@smartinternz.com
Connection Status	Disconnected

Items per page 50 | 1-1 of 1 item

0 Simulations running

Service Details - IBM Cloud | IBM Watson IoT Platform

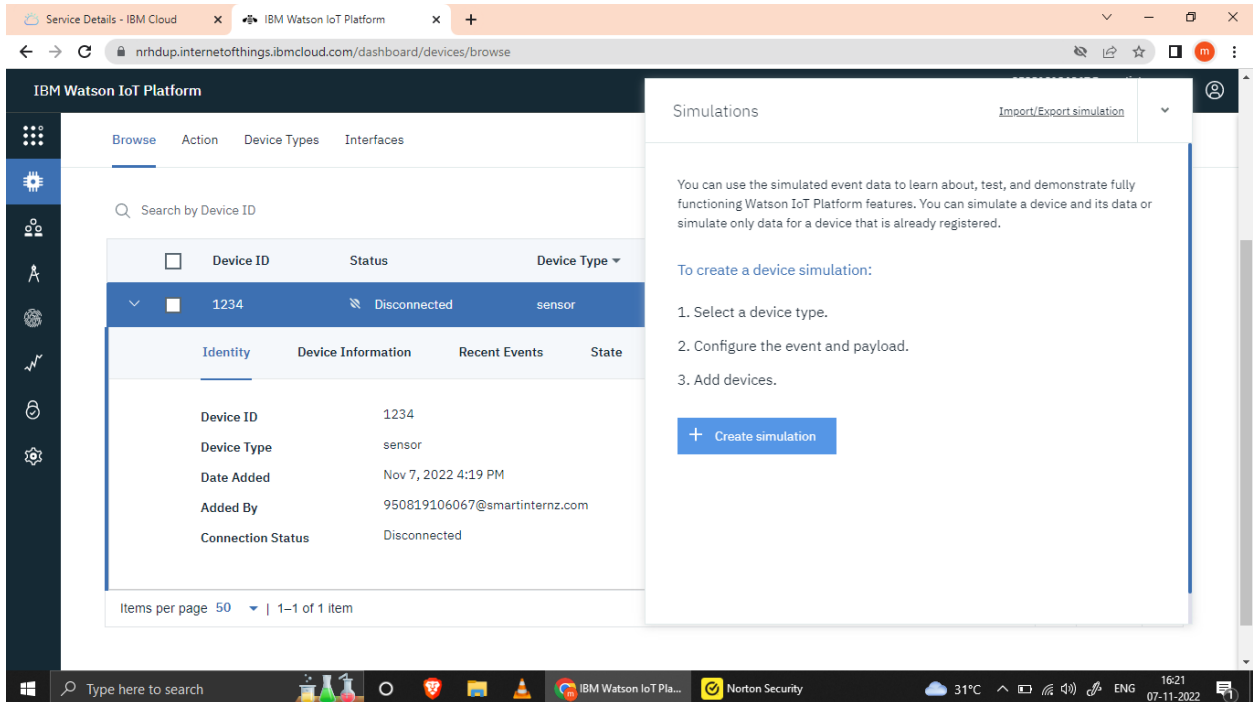
nrhdup.internetofthings.ibmcloud.com/dashboard/devices/browse

950819106067@smartinternz.com
ID: nrhdup

Type here to search

IBM Watson IoT Pla... Norton Security 31°C 16:20 07-11-2022

Step 13: Select create simulation.



The screenshot shows the IBM Watson IoT Platform dashboard. The left sidebar contains navigation icons. The main area is titled 'Simulations' and includes a 'Import/Export simulation' dropdown. A text box explains that simulated event data can be used to learn about, test, and demonstrate fully functioning Watson IoT Platform features. Below this, a list of steps for creating a device simulation is provided: 1. Select a device type, 2. Configure the event and payload, and 3. Add devices. A blue button labeled '+ Create simulation' is visible.

Simulations [Import/Export simulation](#)

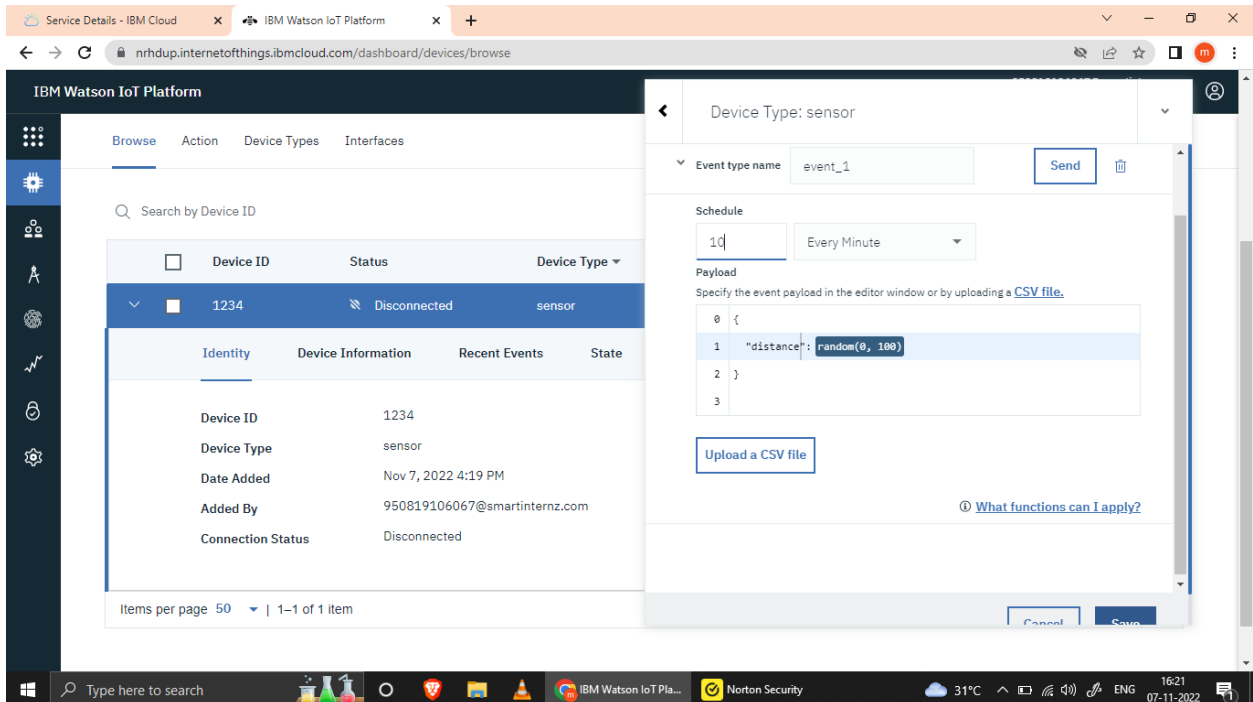
You can use the simulated event data to learn about, test, and demonstrate fully functioning Watson IoT Platform features. You can simulate a device and its data or simulate only data for a device that is already registered.

To create a device simulation:

1. Select a device type.
2. Configure the event and payload.
3. Add devices.

[+ Create simulation](#)

Step 14: Click save.



The screenshot shows the IBM Watson IoT Platform dashboard with the 'Device Type: sensor' configuration panel open. The panel includes a 'Send' button, a 'Schedule' section with a dropdown set to 'Every Minute', and a 'Payload' section. The payload is a JSON object: `{ "distance": random(0, 100) }`. A link 'What functions can I apply?' is also present. At the bottom of the panel, there are 'Cancel' and 'Save' buttons.

Device Type: sensor

[Send](#)

Schedule

1d Every Minute

Payload

Specify the event payload in the editor window or by uploading a [CSV file](#).

```
{
  0: {
    1: "distance": random(0, 100)
    2: }
  }
```

[Upload a CSV file](#)

[What functions can I apply?](#)

[Cancel](#) [Save](#)

Step 15: Select use registered device.

The screenshot shows the IBM Watson IoT Platform dashboard. The left sidebar contains navigation icons. The main content area has tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. Under 'Browse', there is a search bar 'Search by Device ID' and a table of devices. The table has columns for 'Device ID', 'Status', and 'Device Type'. One device is listed with ID '1234', status 'Disconnected', and type 'sensor'. Below the table is a detailed view of the device with fields: Device ID (1234), Device Type (sensor), Date Added (Nov 7, 2022 4:19 PM), Added By (950819106067@smartinternz.com), and Connection Status (Disconnected). To the right, the 'Simulations' panel shows '0/50 Simulations Running' and a '+ New Simulation' button. Below this, it says 'No simulations are currently created for the device type.' At the bottom of the simulation panel are two buttons: 'Create Simulated Device' and 'Use Registered Device'.

Device ID	Status	Device Type
1234	Disconnected	sensor

Identity	Device Information	Recent Events	State
Device ID	1234		
Device Type	sensor		
Date Added	Nov 7, 2022 4:19 PM		
Added By	950819106067@smartinternz.com		
Connection Status	Disconnected		

Step 16:

This screenshot is similar to the previous one, but the 'Simulations' panel now has a dropdown menu open for selecting a device. The dropdown is labeled 'Pick Device' and shows the device ID '1234' as the selected option. The 'Create Simulated Device' and 'Use Registered Device' buttons are still visible at the bottom of the simulation panel.

Device ID	Status	Device Type
1234	Disconnected	sensor

Identity	Device Information	Recent Events	State
Device ID	1234		
Device Type	sensor		
Date Added	Nov 7, 2022 4:19 PM		
Added By	950819106067@smartinternz.com		
Connection Status	Disconnected		

Step 17: Click 1 simulation running.

The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes '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 with columns: Device ID, Status, Device Type, Class ID, and Date Added. A single device is listed with ID 1234, Status Disconnected, Device Type sensor, Class ID Device, and Date Added Nov 7, 2022 4:19 PM. Below the table, a detailed view of the device is shown, including fields for Device ID, Device Type, Date Added, Added By, and Connection Status. A notification at the bottom right states '1 Simulation running'.

Device ID	Status	Device Type	Class ID	Date Added
1234	Disconnected	sensor	Device	Nov 7, 2022 4:19 PM

Device Information:

- Device ID: 1234
- Device Type: sensor
- Date Added: Nov 7, 2022 4:19 PM
- Added By: 950819106067@smartinternz.com
- Connection Status: Disconnected

Items per page: 50 | 1-1 of 1 item

1 Simulation running

Step 18: Click icon.

The screenshot shows the IBM Watson IoT Platform dashboard with the 'Simulations' panel open. The panel displays '1/50 Simulations Running' and a '+ New Simulation' button. Below this, a list of simulations is shown, including a device with ID 1234. The panel also includes buttons for 'Create Simulated Device' and 'Use Registered Device'.

Simulations

1/50 Simulations Running

+ New Simulation

Device Type: sensor

1 Event

1 Device

1234

1 x Create Simulated Device Use Registered Device

Step 19: Select send.

The screenshot shows the IBM Watson IoT Platform interface. On the left, a sidebar contains navigation icons. The main area displays a table of devices. The first device, with ID 1234, is in a 'Disconnected' state and is of type 'sensor'. Below the table, there are tabs for 'Identity', 'Device Information', 'Recent Events', and 'State'. The 'Recent Events' tab is active, showing a message: 'The recent events listed show the live stream of data that is coming and going from this device.' Below this message is a table with columns 'Event' and 'Value'. A modal window is open on the right, titled 'Device Type: sensor'. It contains a 'New event type' button, a 'Send' button, and a 'Schedule' section with a dropdown set to 'Every Minute'. The 'Payload' section shows a JSON object:

```
{ 0: { 1: "distance": random(0, 100) 2: } 3: }
```

. There is also an 'Upload a CSV file' button and a link 'What functions can I apply?'. The bottom of the screen shows a Windows taskbar with various application icons and system information.

Step 20: IBM Watson IoT platform is created.

The screenshot shows the IBM Watson IoT Platform interface. The main area displays a table of devices. The first device, with ID 1234, is in a 'Disconnected' state and is of type 'sensor'. Below the table, there are tabs for 'Identity', 'Device Information', 'Recent Events', 'State', and 'Logs'. The 'Recent Events' tab is active, showing a message: 'The recent events listed show the live stream of data that is coming and going from this device.' Below this message is a table with columns 'Event', 'Value', 'Format', and 'Last Received'. The table contains five rows of data, all for 'event_1' with a 'distance' value in a JSON format. A notification at the bottom right says '1 Simulation running'. The bottom of the screen shows a Windows taskbar with various application icons and system information.

Event	Value	Format	Last Received
event_1	{"distance":76}	json	a few seconds ago
event_1	{"distance":87}	json	a few seconds ago
event_1	{"distance":10}	json	a few seconds ago
event_1	{"distance":2}	json	a few seconds ago
event_1	{"distance":84}	json	a few seconds ago