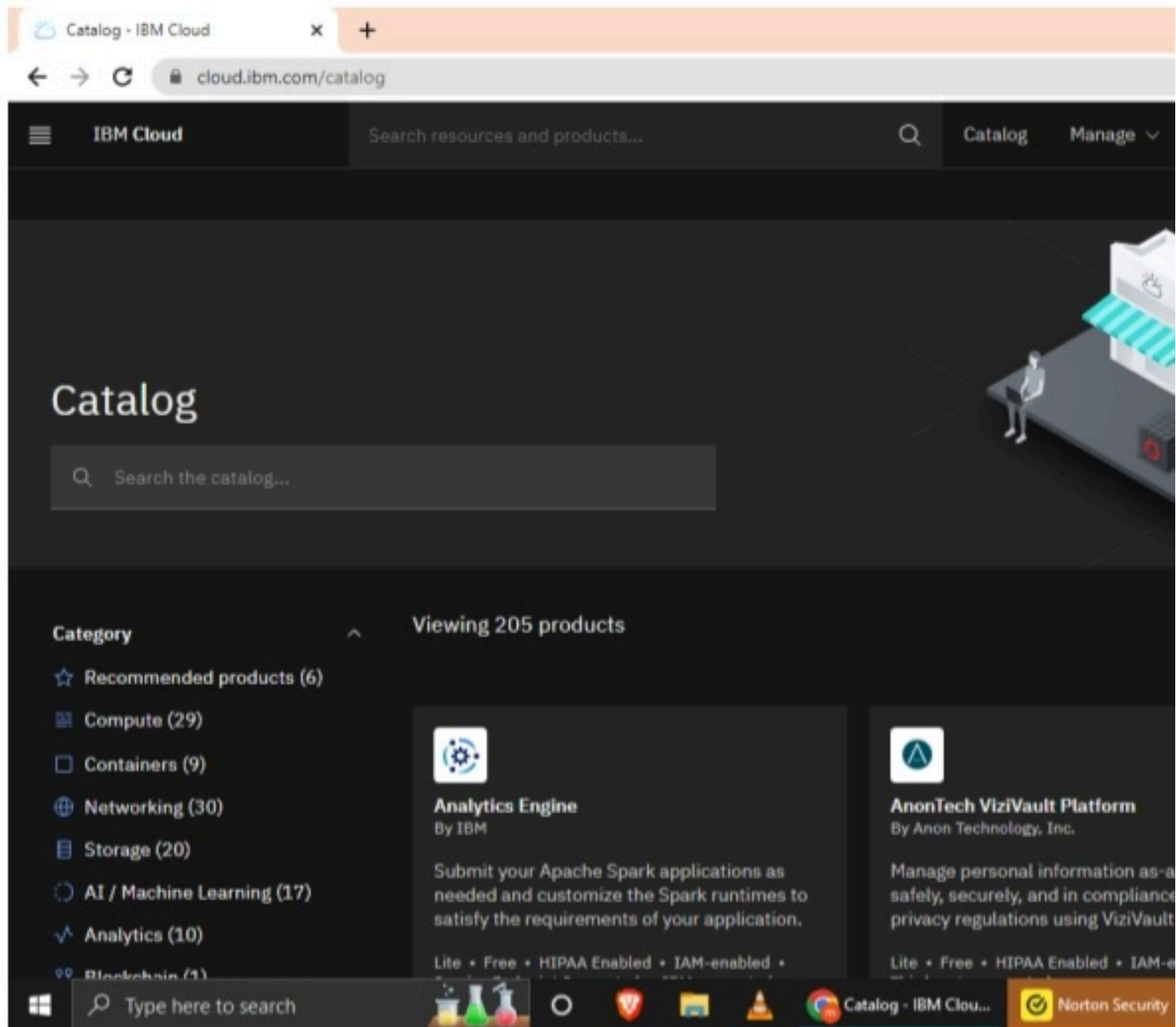



# Step 1: Click **catalog**



# Step 2: Click on **create**.



# 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 your apps can access their live and historical data.

Create

About

Type  
Service

Select a location

Provider  
IBM

Frankfurt (eu-de)

Last updated  
08/15/2022

Select a pricing plan

Category  
Internet of Things

Displayed prices do not include tax. Monthly prices shown are for country or location: [United States](#)

Compliance  
IAM-enabled

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

Location  
Frankfurt  
London  
Dallas  
Washington DC

Type here to search



https://cloud.ibm.com/services/iotf-service/


cloud.ibm.com/services/iotf-service/crn%3Av1%3Abluemix%3Apublic%3Aiotf-service%3Aeu-de%3Aa%2F54

IBM Cloud

Search resources and products...

Catalog

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 your apps can access their live and historical data.

Create

About

Type  
Service

Select a location

Provider  
IBM

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Compliance  
IAM-enabled

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

Location  
Frankfurt  
London  
Dallas

Waiting for api.segment.io...

Type here to search



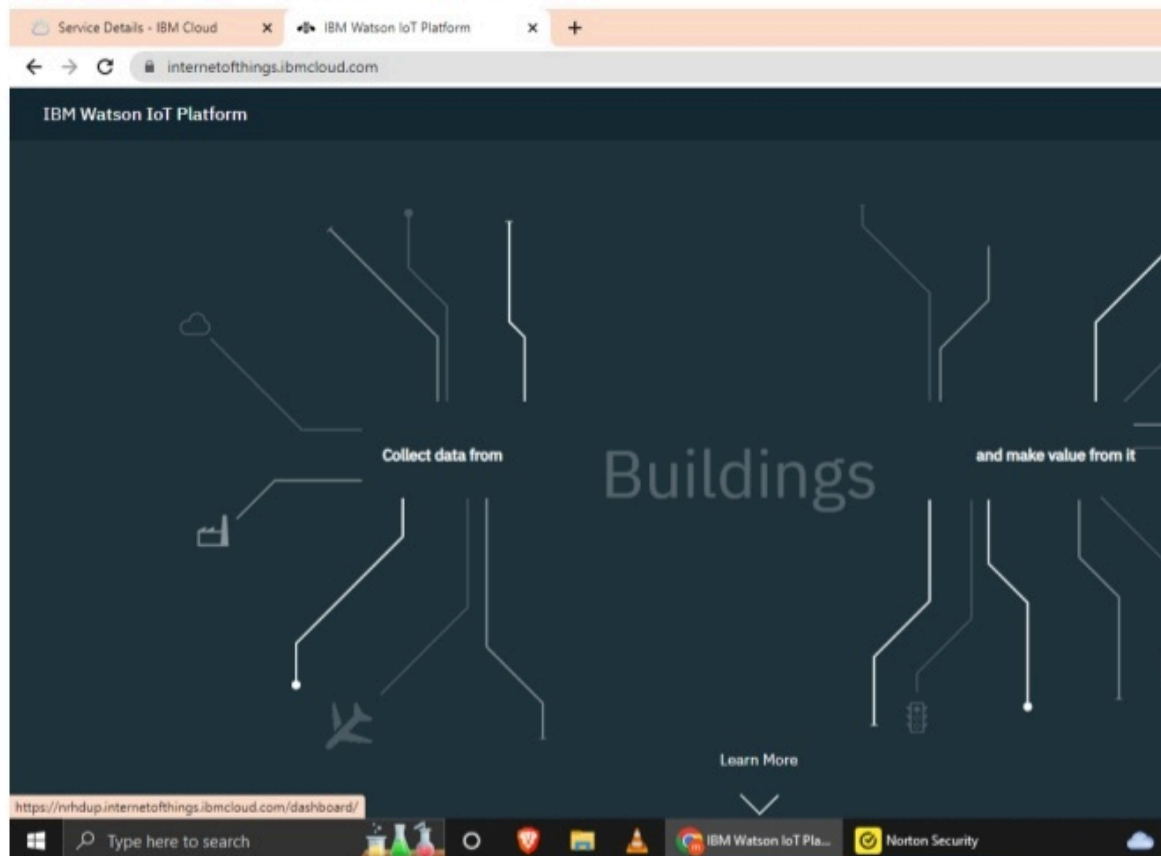
## Step 3: Select **launch**.

The screenshot shows the IBM Cloud interface for the 'Internet of Things Platform-83' service. The page is titled 'Internet of Things Platform-83' and is marked as 'Active'. The 'Launch' button is visible. Below the main content, there is a section titled 'Ready for the next level?' with the heading 'IBM Watson IoT Platform Journey'. This section displays three progress bars: 'Lite' (checked), 'Non-Production' (unchecked), and 'Production' (unchecked). The 'Lite' plan is described as 'The Lite service plan provides a lightweight development environment to get you started'. The 'Non-Production' plan is described as 'The Non-Production service plan is a full-featured, fully-integrated offering that enables'. The 'Production' plan is described as 'The Production service is a fully managed SaaS offering that enables you to manage and analyze'. The bottom of the screen shows the Windows taskbar with the search bar and various application icons.

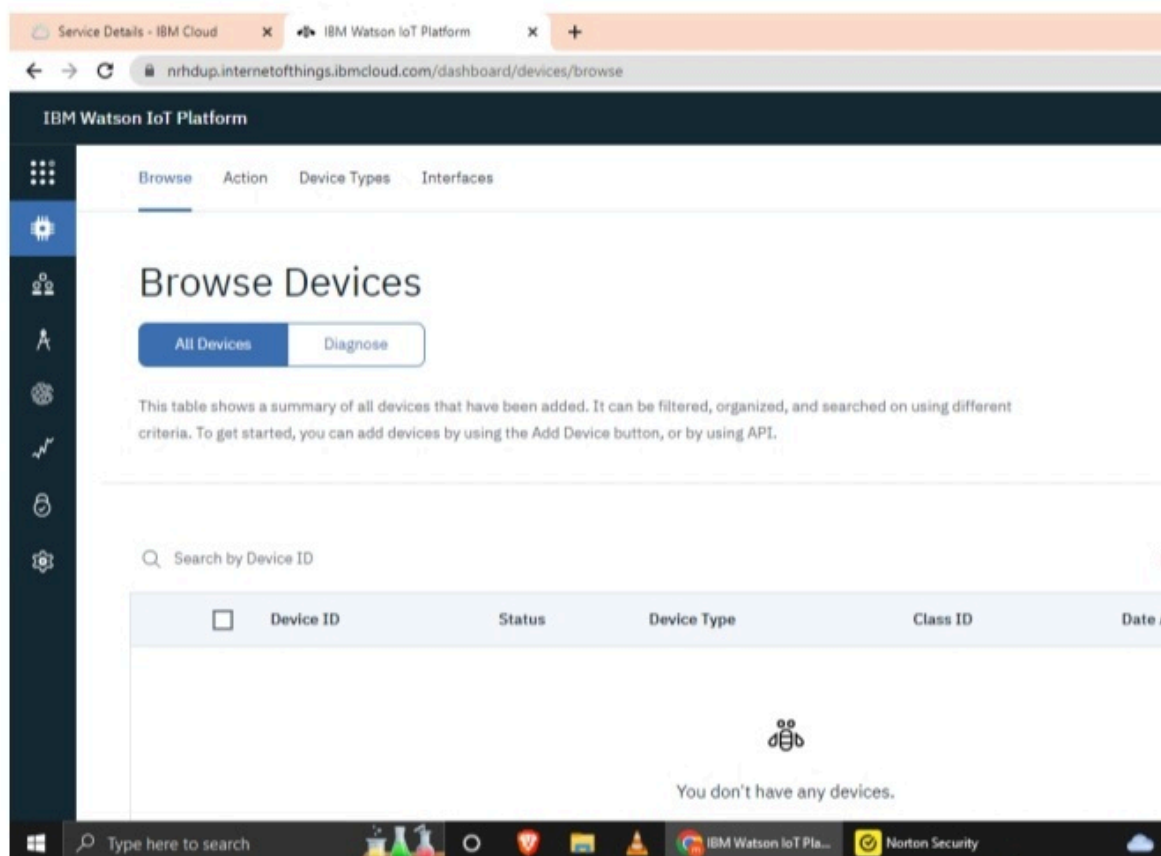
## Step 4:

The screenshot shows the IBM Watson IoT Platform dashboard. The URL in the browser is 'nrhdup.internetofthings.ibmcloud.com/dashboard/'. The page displays a message: 'This user session has expired. You will be taken to the Home page where you can log in again.' Below the message is a circular refresh icon. The bottom of the screen shows the Windows taskbar with the search bar and various application icons.

## Step 5: Select the device.



## Step 6: Click on add device.



## Step 7: Enter device type and device ID.

Service Details - IBM Cloud x IBM Watson IoT Platform x +

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

IBM Watson IoT Platform

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

Type here to search

IBM Watson IoT Pla... Norton Security 31°C

## Step 8: Click next.

Service Details - IBM Cloud x IBM Watson IoT Platform x +

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

IBM Watson IoT Platform

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 Manufact

Device Class: Enter Device Cl

Firmware Version: Enter Firmware

Descriptive Location: Enter Descripti

Add Metadata +

Type here to search

IBM Watson IoT Pla... Norton Security 31°C



## Step 9: Enter authentication token.

The screenshot shows the IBM Watson IoT Platform interface. The top navigation bar includes 'Service Details - IBM Cloud', 'IBM Watson IoT Platform', and a plus sign. The browser address bar shows the URL: `nrhdup.internetofthings.ibmcloud.com/dashboard/devices/browse/add`. The main header is 'IBM Watson IoT Platform'. The left sidebar contains icons for various functions. The main content area has tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. The 'Browse' tab is active, showing a page titled 'Add Device'. The page content is divided into two columns. The left column is titled 'Auto-generated authentication token (default)' and contains the text: 'There are two options for selecting a device authentication token. Auto-generated authentication token (default)'. Below this, it says: '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.' A text input field labeled 'Authentication Token' contains the value '12345678'. Below the field, it says: 'Make a note of the generated token. Lost authentication tokens cannot be recovered. Tokens are encrypted before being stored.' The right column is titled 'Self-provided authentication token' and contains the text: 'Provide your own authentication token for this device. The token must be between 8 and 36 characters and contain lowercase and uppercase letters, numbers, and symbols. It can include hyphens, underscores, and periods. Do not use repeated characters, dictionary words, user name predefined sequences.' The bottom of the screen shows a Windows taskbar with a search bar, several application icons, and a system tray showing the date and time.

Service Details - IBM Cloud x IBM Watson IoT Platform x +

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

IBM Watson IoT Platform

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 12345678

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

Authentication token 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 lowercase and uppercase letters, numbers, and symbols. It can include hyphens, underscores, and periods. Do not use repeated characters, dictionary words, user name predefined sequences.

Type here to search

IBM Watson IoT Platform Norton Security 31°C

## Step 10: Click finish.

The screenshot shows the IBM Watson IoT Platform interface. The top navigation bar includes 'Service Details - IBM Cloud', 'IBM Watson IoT Platform', and a plus sign. The browser address bar shows the URL: `nrhdup.internetofthings.ibmcloud.com/dashboard/devices/browse/add`. The main header is 'IBM Watson IoT Platform'. The left sidebar contains icons for various functions. The main content area has tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. The 'Browse' tab is active, showing a page titled 'Add Device'. The page content is divided into two columns. The left column is titled 'Add Device' and contains a progress bar with four steps: 'Identity', 'Device Information', 'Security', and 'Summary'. The 'Identity' step is currently active. Below the progress bar, it says: 'Verify that the following information is correct then select Finish'. The right column is titled 'Add Device' and contains the text: 'Verify that the following information is correct then select Finish'. Below this, it says: 'Device Type sensor', 'Device ID 1234', and 'Security Token 12345678'. A blue button labeled 'View Metadata' is located below the 'Device ID' field. The bottom of the screen shows a Windows taskbar with a search bar, several application icons, and a system tray showing the date and time.

Service Details - IBM Cloud x IBM Watson IoT Platform x +

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

IBM Watson IoT Platform

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

Type here to search

IBM Watson IoT Platform Norton Security 31°C

## Step 11:

The screenshot shows the IBM Watson IoT Platform interface. The browser address bar displays the URL: `nrhdup.internetofthings.ibmcloud.com/dashboard/devices/drilldown/sensor:1234?returnTo=/devices/browse`. The page title is "Device Drilldown - 1234". On the left, a sidebar menu lists various options: Device Credentials, Connection Information, Recent Events, State, Device Information, Metadata, Diagnostics, Connection Logs, and Device Actions. The main content area is titled "Device Credentials" and contains the following information:

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

Below the table, a warning icon and text state: "Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the device authentication token." A link at the bottom of the main content area says: "Find out how to add these credentials to your device".

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

The screenshot shows the IBM Watson IoT Platform interface. The browser address bar displays the URL: `nrhdup.internetofthings.ibmcloud.com/dashboard/devices/browse`. The page title is "IBM Watson IoT Platform". The top navigation bar includes "Browse", "Action", "Device Types", and "Interfaces". Below the navigation bar, there is a search bar labeled "Search by Device ID" and a "Device Simul" link. The main content area displays a table of devices:

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

Below the table, there is a section for "Identity" and "Device Information" with the following details:

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

At the bottom of the page, there is a status bar that says "0 Simulations running".

## Step 13: Select create simulation.

The screenshot shows the IBM Watson IoT Platform dashboard. On the left, a sidebar contains navigation icons. The main area has tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. Below these is a search bar 'Search by Device ID'. A table lists devices, with one device selected (ID 1234, Status Disconnected, Device Type sensor). Below the table is a detailed view of the selected device, showing its identity, device information, recent events, and state. On the right, a 'Simulations' panel is open, displaying instructions on how to create a device simulation and a 'Create simulation' button.

IBM Watson IoT Platform

Browse Action Device Types Interfaces

Search by Device ID

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

Items per page 50 | 1-1 of 1 item

Simulations

Insert/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 'Simulations' panel open. The panel is titled 'Device Type: sensor'. It has a 'Event type name' field set to 'event\_1' and a 'Send' button. Below this is a 'Schedule' section with a '10' minute interval and 'Every Minute' frequency. The 'Payload' section shows a JSON payload: `{ "distance": random(0, 100) }`. There is an 'Upload a CSV file' button and a link to 'What functions can I apply?'. At the bottom right, there are 'Cancel' and 'Save' buttons.

IBM Watson IoT Platform

Browse Action Device Types Interfaces

Search by Device ID

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

Items per page 50 | 1-1 of 1 item

Device Type: sensor

Event type name event\_1 Send

Schedule

10 Every Minute

Payload

Specify the event payload in the editor window or by uploading a CSV file.

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

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 main panel displays a table of devices with the following data:

Device ID	Status	Device Type
1234	Disconnected	sensor

Below the table, the 'Device Information' tab is selected, showing details for device ID 1234:

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

The right-hand panel shows the 'Simulations' section with '0/50 Simulations Running'. A dropdown menu for 'Device Type' is set to 'sensor'. At the bottom of this panel, there are two buttons: 'Create Simulated Device' and 'Use Registered Device'.

## Step 16:

This screenshot is similar to the previous one, but the 'Simulations' panel on the right has been updated. A dropdown menu labeled 'Pick Device' is now open, showing the device ID '1234' as the selected option. The 'Use Registered Device' button remains visible at the bottom of the panel.

## 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'. Below the search bar is a table with columns: Device ID, Status, Device Type, Class ID, and Date Added. The table contains one row for Device ID 1234, Status Disconnected, Device Type sensor, Class ID Device, and Date Added Nov 7, 2022 4:19 PM. Below the table is a section for 'Identity', 'Device Information', 'Recent Events', 'State', and 'Logs'. The 'Device Information' section shows details for Device ID 1234, Device Type sensor, Date Added Nov 7, 2022 4:19 PM, Added By 950819106067@smartinternz.com, and Connection Status Disconnected. A notification at the bottom right says '1 Simulation running'.

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

Items per page 50 | 1-1 of 1 item

## Step 18: Click icon.

The screenshot shows the IBM Watson IoT Platform dashboard with the 'Simulations' panel open on the right. The panel displays '1/50 Simulations Running' and a dropdown for 'Device Type' set to 'sensor'. Below this, it shows '1 Device' and a list of devices with ID 1234. At the bottom of the panel are buttons for '1 x', 'Create Simulated Device', and 'Use Register'. The main dashboard content remains the same as in Step 17.

Simulations

1/50 Simulations Running

Device Type sensor

1 Device

1234

1 x Create Simulated Device Use Register

## Step 19: Select **send**.

## Step 19: Select send.

The screenshot shows the IBM Watson IoT Platform dashboard. The main panel displays the 'Recent Events' tab for a device with ID '1234', which is currently 'Disconnected'. The device type is 'sensor'. A sidebar on the right shows the configuration for the device type 'sensor'. The 'Events' section is set to '1'. The 'Event type name' is 'event\_1'. The 'Schedule' is set to '10' seconds 'Every Minute'. The 'Payload' is configured with a JSON object: 

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

. A 'New event' button is visible in the top right of the sidebar.

## Step 20: IBM Watson IoT platform is created.

The screenshot shows the IBM Watson IoT Platform dashboard. The main panel displays the 'Recent Events' tab for a device with ID '1234', which is currently 'Disconnected'. The device type is 'sensor'. The 'Recent Events' table shows a live stream of data. The table has columns: Event, Value, Format, and Last Received. The data is as follows:

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

A status message at the bottom right indicates '1 Simulation running'.