

# CREATE AND CONFIGURE IBM CLOUD SERVICES

(IBM Watson, Node-Red)

Date	22 October 2022
TeamID	PNT2022TMID36617
ProjectName	Industry-specific intelligent fire management system
MaximumMarks	8 Marks

## IBM Watson IoT Platform and Device:

IBM Watson IOT Platform is a cloud-hosted service that makes it simple to derive value from Internet of Things (IoT) devices . Also a fully managed , cloud-hosted service with capabilities for device registration, connectivity, control, rapid visualization and data storage.

The screenshot displays the IBM Watson IoT Platform web interface. The browser address bar shows the URL: <https://lmon4f.internetofthings.ibmcloud.com/dashboard/devices/drilldown/abcd:123?returnTo=/devices/browse>. The page title is "Device Drilldown - 123". 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 includes a descriptive paragraph: "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." Below this text is a table with the following data:

Organization ID	lmon4f
Device Type	abcd
Device ID	123
Authentication Method	use-token-auth
Authentication Token	12345678

At the bottom of the main content area, there is a warning icon and a message: "Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the device to generate a new authentication token." Below this message is a link: "Find out how to add these credentials to your device". The bottom of the screenshot shows a Windows taskbar with various application icons and a system clock indicating 11:24 AM on 19-11-2022.



Device Type: abcd



Events 1

New event type +



Event type name

event\_1

Send



## Schedule

1



Every Minute



## Payload

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

```
0 {  
1   "randomNumber": random(0, 100),  
2   "temp" : random(90,100),  
3   "hum" : random(60,100)  
4 }  
5
```

Upload a CSV file

Cancel

Save

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https://lmon4f.internetofthings.ibmcloud.com/dashboard/devices/browse

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IBM Watson IoT Platformhemnathajay@gmail.comID: lmon4f

BrowseActionDevice TypesInterfaces

Device IDStatusDevice TypeClass IDDate AddedDescriptive Location

123DisconnectedabcdDeviceNov 19, 2022 11:24 AM

IdentityDevice InformationRecent EventsStateLogs

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":68,"temp":95,"hum":79}	json	a few seconds ago
event_1	{"randomNumber":5,"temp":98,"hum":87}	json	a minute ago
event_1	{"randomNumber":82,"temp":92,"hum":89}	json	2 minutes ago
event_1	{"randomNumber":40,"temp":96,"hum":60}	json	3 minutes ago
event_1	{"randomNumber":62,"temp":97,"hum":70}	json	5 minutes ago

1 Simulation running

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IBM Watson IoT Platformhemnathajay@gmail.comID: lmon4f

BrowseActionDevice TypesInterfaces

Device IDStatusDevice TypeClass IDDate AddedDescriptive Location

123DisconnectedabcdDeviceNov 19, 2022 11:24 AM

IdentityDevice InformationRecent EventsStateLogs

Showing Raw Data | No Interfaces Available

Property	Value	Type	Event	Last Received
randomNumber	44	Number	event_1	a few seconds ago
temp	91	Number	event_1	a few seconds ago
hum	91	Number	event_1	a few seconds ago

Items per page 50 | 1-1 of 1 item1 of 1 page

1 Simulation running

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🔥 Getting Started

📄 Symbols

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💬 WhatsApp

📺 YouTube

🗨️ Discord

🎵 Spotify

✉️ messletters

📄 iLovePDF

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IBM Watson IoT Platform

🔍

hemnathajay@gmail.com

ID: lmon4f

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Browse

Action

Device Types

Interfaces

🔍 Search by Device ID

📄

Device ID

Status

123

Disconnected

Identity

Device Information

The recent events listed show the live s

Event

Value

event\_1

{ "randomNumbe

event\_1

{ "randomNumbe

event\_1

{ "randomNumbe

event\_1

{ "randomNumbe

event\_1

{ "randomNumber":82,"temp":92,"hum":89}

json

14 minutes ag

1 Simulation running

Event Payload

×

Event Name

event\_1

Time Received

Nov 19, 2022 11:44 AM

1

{

2

"randomlumber": 3,

3

"temp": 97,

4

"hum": 79

5

}

Device Simulator

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🔍

Descriptive Location

→ ...

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🔒

11:46 AM

19-11-2022

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