

# CREATE AND CONFIGURE IBM SERVICES

## IOT WATSON PLATFORM

DATE	17/11/2022
TEAM ID	PNT2022TMID39027
PROJECT NAME	SMART SOLUTION FOR RAILWAYS

The image shows two screenshots of the IBM Cloud interface. The top screenshot is the 'Dashboard' page, which features a 'For you' section with various tiles for building, exploring, and deploying services. Below this are sections for 'News', 'Recent support cases', 'Planned maintenance', and 'IBM Cloud status'. The bottom screenshot is the 'Resource list' page, which displays a table of resources categorized by group.

**Dashboard Screenshot:**

- For you section:** Includes tiles for 'Build', 'Explore IBM Cloud Shell', 'Incorporate DevOps into your process', 'What is Cloud Object Storage', 'Create and deploy an application', and 'Build cloud-native apps using IBM Cloud Object Storage'.
- News section:** Lists updates like 'IBM Cloud Satellite New Pricing', 'IBM Cloud Data Shield Deprecation', and 'IBM Watson Orchestrate Is Integrating with ThisWay Global'.
- Recent support cases, Planned maintenance, and IBM Cloud status:** Each with a 'View all' link.

**Resource list Screenshot:**

Name	Group	Location	Product	Status	Tags
Filter by name or IP address...   Filter by group or org...   Filter...   Q. Filter...   Q. Filter...   Filter...					
Storage (0)					
AI / Machine Learning (0)					
Analytics (0)					
Blockchain (0)					
Databases (2)					
Developer tools (8)					
Logging and monitoring (0)					
Migration (0)					
Integration (0)					
Internet of Things (1)					
Internet of Things Platform-ay	Default	London	Internet of Things Platform	Active	—
Security (0)					
Mobile (0)					

Browser tabs: Welcome to Project Delighted, IBM, Catalog - IBM Cloud. Address bar: cloud.ibm.com/catalog?category=iot#services. Search bar: Search resources and products... User: Bakkiyalakshmi K's Account. Search: Search the catalog... Sell on IBM Cloud Catalog settings

## Internet of Things

Alphabetically

Type

- All
- Services
- Software
- Professional services

Provider

- IBM (1)

Pricing plan


- Lite
- Free

Compliance

- IBM-enabled

Viewing 1 product

Filters: Internet of Things Services Clear all



### 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

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

Type here to search 27°C Mostly sunny 10:29 17-11-2022

Browser tabs: Welcome to Project Delighted, IBM, Service Details - IBM Cloud. Address bar: cloud.ibm.com/services/iotf-service/crm%3Av1%3Abluemix%3Apublic%3Aioth-service%3Aeu-gb%3Aa%2F6d2f2b1ba8424c008edba4b2b1ac6c3e%3At2ab31f9-77fd-4718-9bee-6f9346018904%3A9%3A7... Search bar: Search resources and products... User: Bakkiyalakshmi K's Account. Search: Search the catalog... Sell on IBM Cloud Catalog settings


## Internet of Things Platform-ay

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 with the connectivity capabilities of Watson IoT Platform.

- Free
- 200 MB data-transfer limit

**Non-Production**

The Non-Production service plan is a full-featured, fully-integrated offering that enables you to explore Watson IoT Platform to see how the service can fit into your IoT environment.

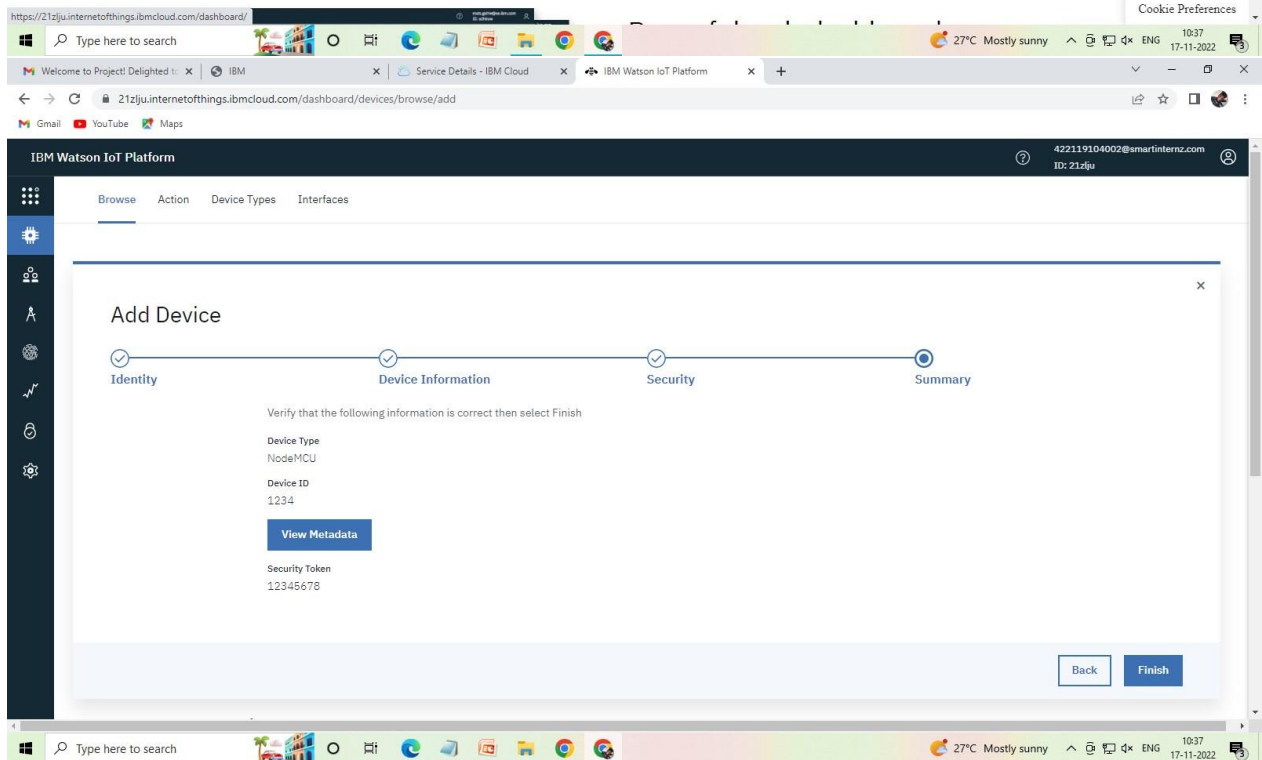
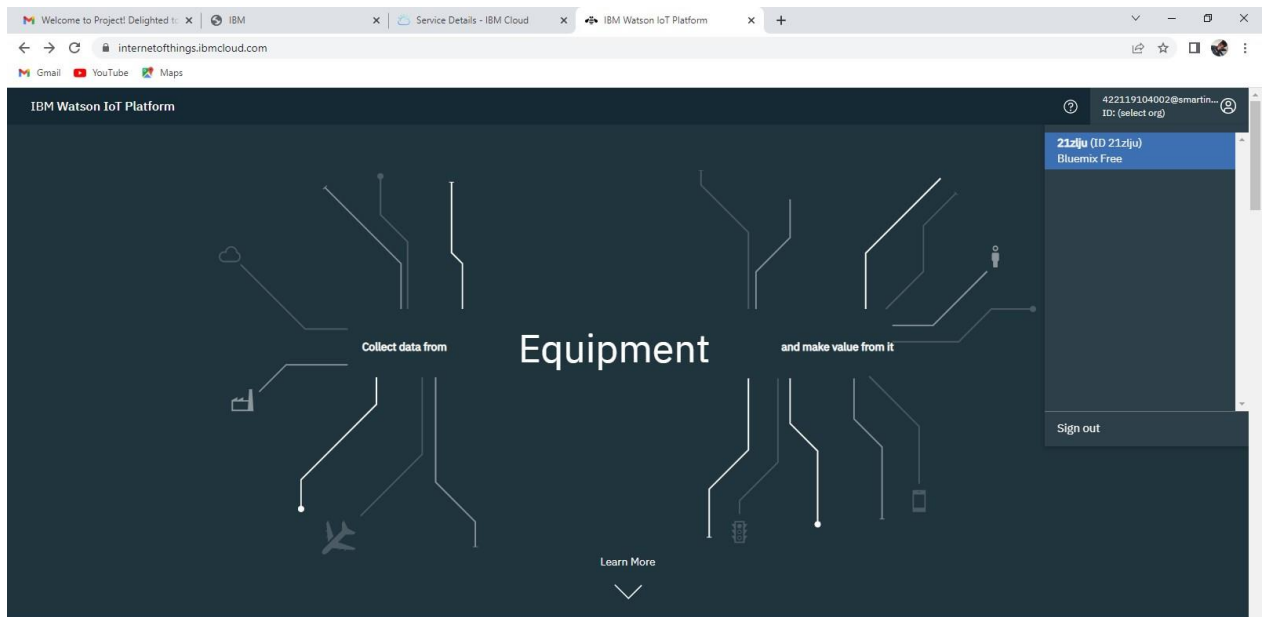
- Starts at \$500 per month
- Capacity limit based on device type

**Production**

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

- Includes IBM Service & Support
- Pricing based on number of devices per

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Welcome to Project! Delighted to : IBMService Details - IBM CloudIBM Watson IoT Platform

21ziju.internetofthings.ibmcloud.com/dashboard/devices/drilldown/NodeMCU:1234?returnTo=/devices/browse

GmailYouTubeMaps

IBM Watson IoT Platform422119104002@smartinternz.comID: 21ziju

← Back

Device Drilldown - 1234

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	21ziju
Device Type	NodeMCU
Device ID	1234
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.

Find out how to add these credentials to your device

← Connection Information

Basic connection information about this device.

Device ID	1234
Device Type	NodeMCU
Date Added	Nov 17, 2022 10:37 AM
Added By	422119104002@smartinternz.com
Connection Status	Disconnected

Recent Events

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
-------	-------	--------	---------------

Type here to search

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Welcome to Project! Delighted to : IBMService Details - IBM CloudIBM Watson IoT Platform

21ziju.internetofthings.ibmcloud.com/dashboard/devices/drilldown/NodeMCU:1234?returnTo=/devices/browse

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Type here to search

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IBM Watson IoT Platform

General Settings

Here you can see and modify global organization information and locally enable experimental Watson IoT Platform features.

PLATFORM

- About
- Identity
- Experimental Features
- Last Event Cache
- Client Connection State API

DATA AND DEVICES

- Custom Device Management Packages
- Device Simulator

SECURITY

- Connection Security

Device Simulator

Simulate devices and device data to get up and running quickly on Watson IoT Platform. For

Activate Device Simulator ☒

Connection Security

You can use the Connection Security Policy to configure the security level for device connections.

[Open Connection Security Policy](#)

CA Certificates

Upload a CA certificate which is used to authenticate the signature of client-side certificates.

[Connection Security policy](#)

[Add Certificate](#)

Device Type: NodeMCU

Events 1 [New event type](#)

Event type name: event\_1 [Send](#) [Delete](#)

Schedule

20 Every Minute

Payload

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

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

[Upload a CSV file](#)

[What functions can I apply?](#)

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

IBM Watson IoT Platform

Device Drilldown - 1234

Back

Connection Information

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Device Actions

Connection Information

Basic connection information about this device.

Device ID: 1234

Device Type: NodeMCU

Date Added: Nov 17, 2022 10:37 AM

Added By: 422119104002@smartinternz.com

Connection Status: Disconnected

Recent Events

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format
-------	-------	--------

Simulations

[Import/Export simulation](#)

0/50 Simulations Running [+ New Simulation](#)

Device Type: NodeMCU [1 Event](#) [Delete](#)

No simulations are currently created for the device type.

[1 x Create Simulated Device](#) [Use Registered Device](#)

0 event sent 0 bytes sent

Starred - siranjeevikumar452@g... x IBM x Service Details - IBM Cloud x IBM Watson IoT Platform x +

21zju.internetofthings.ibmcloud.com/dashboard/devices/browse

IBM Watson IoT Platform 422119104002@smartinternz.com ID: 21zju

Browse Action Device Types Interfaces Add Device +

>	<input type="checkbox"/>	1234	Disconnected	NodeMCU	Device	Nov 17, 2022 10:37 AM	422119104002@smartinternz.com
>	<input type="checkbox"/>	12345678	Disconnected	NodeMCU	Device	Oct 21, 2022 2:03 PM	422119104002@smartinternz.com
▼	<input checked="" type="checkbox"/>	NodeMCU_1	Connected	NodeMCU	Device	Nov 17, 2022 10:39 AM	422119104002@smartinternz.com → ...

Identity Device Information Recent Events State Logs X

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":1}	json	a few seconds ago
event_1	{"randomNumber":38}	json	a few seconds ago
event_1	{"randomNumber":6}	json	a few seconds ago
event_1	{"randomNumber":2}	json	a few seconds ago
event_1	{"randomNumber":37}	json	a few seconds ago

1 Simulation running

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Starred - siranjeevikumar452@g... x IBM x Service Details - IBM Cloud x IBM Watson IoT Platform x +

21zju.internetofthings.ibmcloud.com/dashboard/boards/18b3be92-2b59-4212-aba2-8663315859ce

IBM Watson IoT Platform 422119104002@smartinternz.com ID: 21zju

TEMP&HUM Add New Card Settings

### Create Card

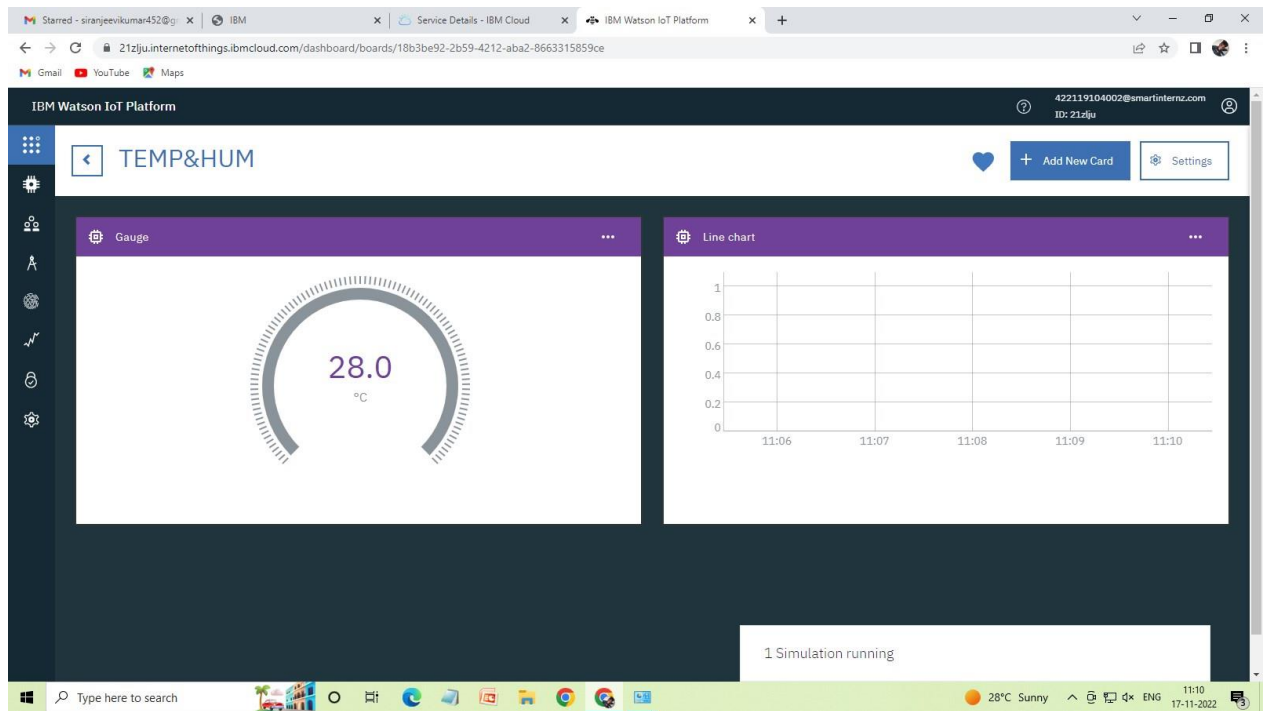
Card type Select card type

Devices

Generic visualisation	Line chart	Bar chart	Donut chart
Value	Gauge	Semaphore	Device Properties
All device properties	Device list	Device info	Device map

Usage

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## RESULT:

IBM watson IOT platform and device Created successfully.