

CREATE AND CONFIGURE IBM SERVICES

IOT WATSON PLATFORM

DATE	17/11/2022
TEAM ID	PNT2022TMID39059
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 quick-start guides and a 'News' section with recent updates. The bottom screenshot is the 'Resource list' page, which displays a table of resources categorized by group, location, product, status, and tags.

Dashboard Screenshot:

- For you section:** Includes guides 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 recent updates such as 'IBM Cloud Satellite New Pricing', 'IBM Cloud Data Shield Deprecation', and 'IBM Watson Orchestrate Is Integrating with ThisWay Global'.

Resource list Screenshot:

Name	Group	Location	Product	Status	Tags
Filter by name or IP address... Filter by group or org... Filter... Filter... 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 to... IBM Catalog - IBM Cloud

Address bar: cloud.ibm.com/catalog?category=iot#services

Search bar: Search resources and products...

Search bar: Search the catalog...


Buttons: Sell on IBM Cloud Catalog settings

Internet of Things

Alphabetically

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

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

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

Browser tabs: Welcome to Project! Delighted to... IBM Service Details - IBM Cloud

Address bar: cloud.ibm.com/services/iotf-service/crm%3Av1%3Abluemix%3Apublic%3Aiotf-service%3Aeu-gb%3Aa%2F6d2f2b1ba8424c008edba4b2b1ac6c3e%3Af2ab31f9-77fd-4718-9bee-6f9346018904%3A%3A7...

Search bar: Search resources and products...

Buttons: Catalog Manage

Resource list /

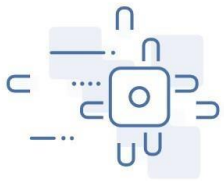
Internet of Things Platform-ay

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.

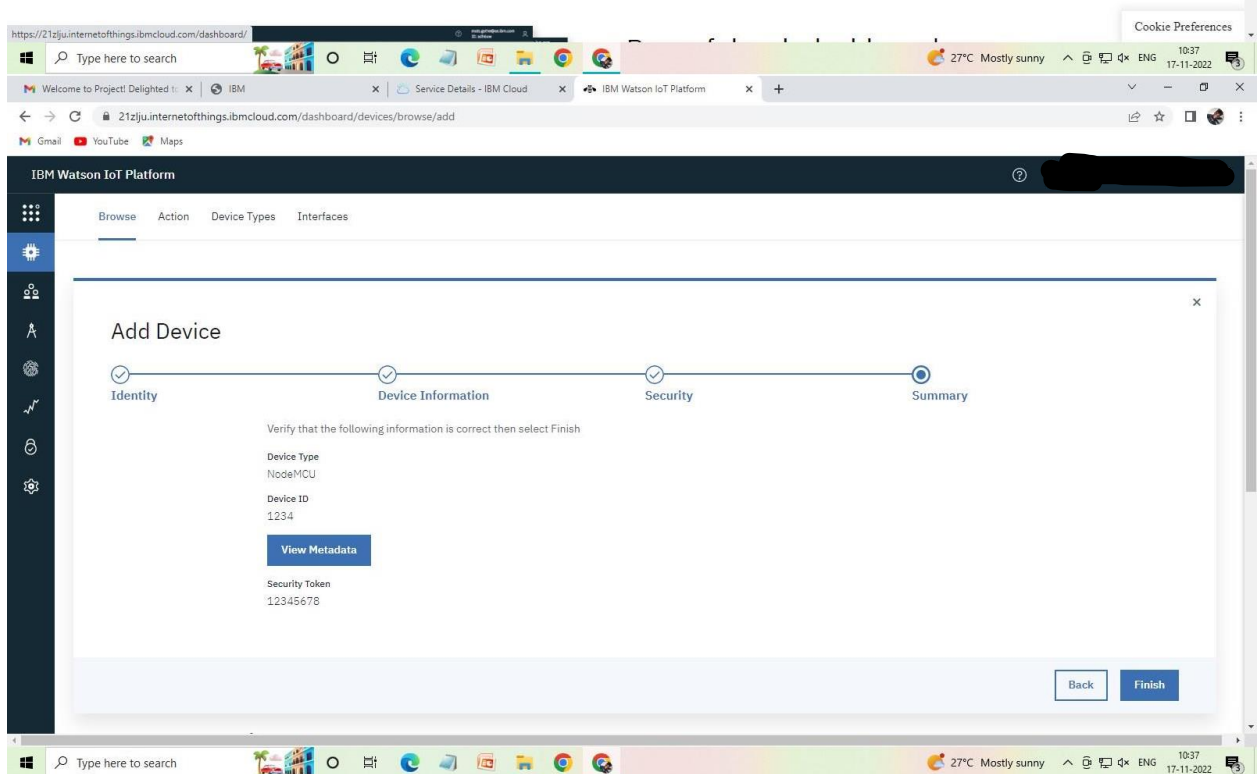
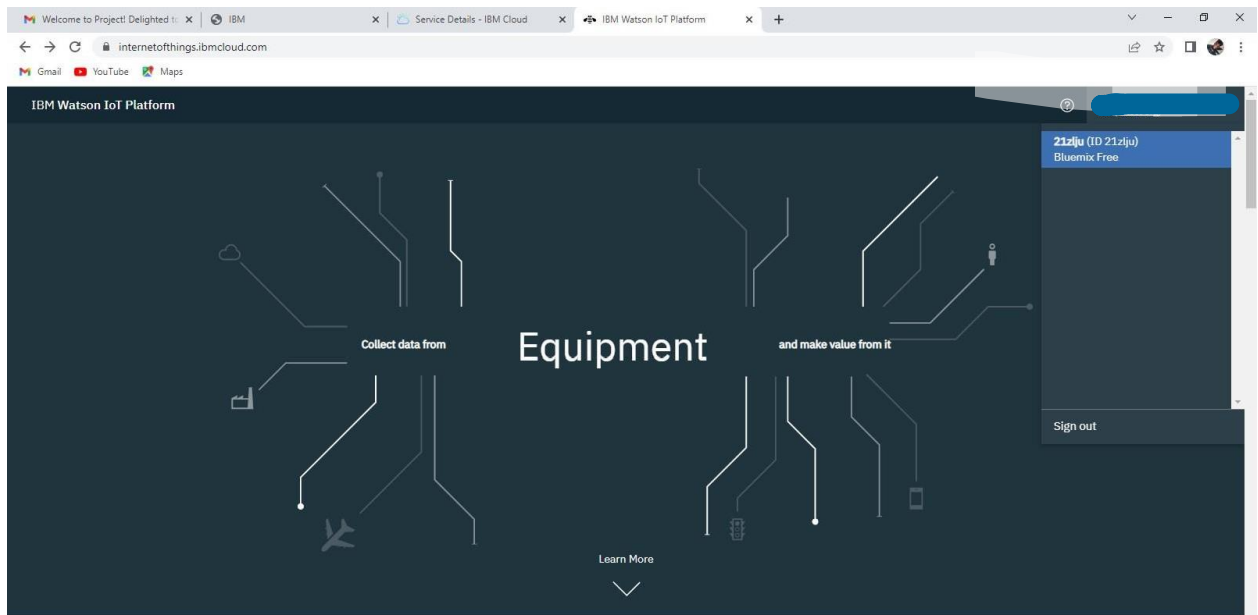
- Starts at \$500 per month
- Capacity limit based on device type

☐ 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

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



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

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

GmailYouTubeMaps

IBM Watson IoT Platform

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 ID21zju

Device TypeNodeMCU

Device ID1234

Authentication Methoduse-token-auth

Authentication Token12345678

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

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

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

GmailYouTubeMaps

IBM Watson IoT Platform

Back

Device Drilldown - 1234

Device Credentials

Connection Information

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Device Actions

Connection Information

Basic connection information about this device.

Device ID1234

Device TypeNodeMCU

Date AddedNov 17, 2022 10:37 AM

Added By422119104002@smartinternz.com

Connection StatusDisconnected

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
-------	-------	--------	---------------

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 more information, see [Device Simulator](#).

Activate Device Simulator ☒

Connection Security

You can use the Connection Security Policy to configure the security level for device connections. For more information, see [Connection Security](#).

[Open Connection Security Policy](#)

CA Certificates

Upload a CA certificate which is used to authenticate the signature of client-side certificates. For more information, see [Connection Security policy](#).

[Add Certificate](#)

Device Type: NodeMCU

Events 1 [New event type](#)

Event type name: [Send](#) [Delete](#)

Schedule

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

- Recent Events
- State
- Device Information
- Metadata
- Diagnostics
- Connection Logs
- 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.

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

0 event sent [0 bytes sent](#)

Starred - siranjevikumar452@g... X IBM Service Details - IBM Cloud X IBM Watson IoT Platform X

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

IBM Watson IoT Platform

Browse Action Device Types Interfaces Add Device

ID	Status	Device Type	Device Name	Last Seen	Device ID
1234	Disconnected	NodeMCU	Device	Nov 17, 2022 10:37 AM	422119104002@smartinternz.com
12345678	Disconnected	NodeMCU	Device	Oct 21, 2022 2:03 PM	422119104002@smartinternz.com
NodeMCU_1	Connected	NodeMCU	Device	Nov 17, 2022 10:39 AM	422119104002@smartinternz.com

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":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

Type here to search 28°C Sunny 10:44 17-11-2022

Starred - siranjevikumar452@g... X IBM 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

TEMP&HUM

Create Card

Card type
Select card type

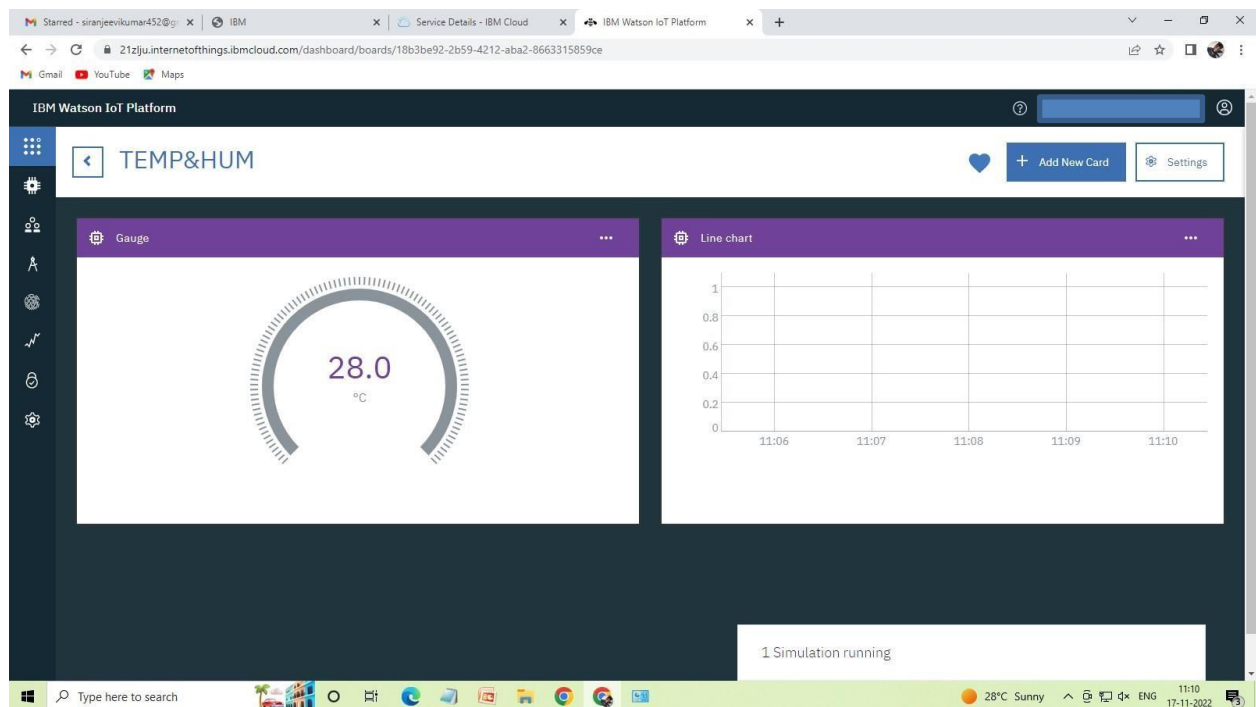
Devices

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

Usage

+ Add New Card Settings

Type here to search 28°C Sunny 10:45 17-11-2022



RESULT:

IBM watson IOT platform and device Created successfully.