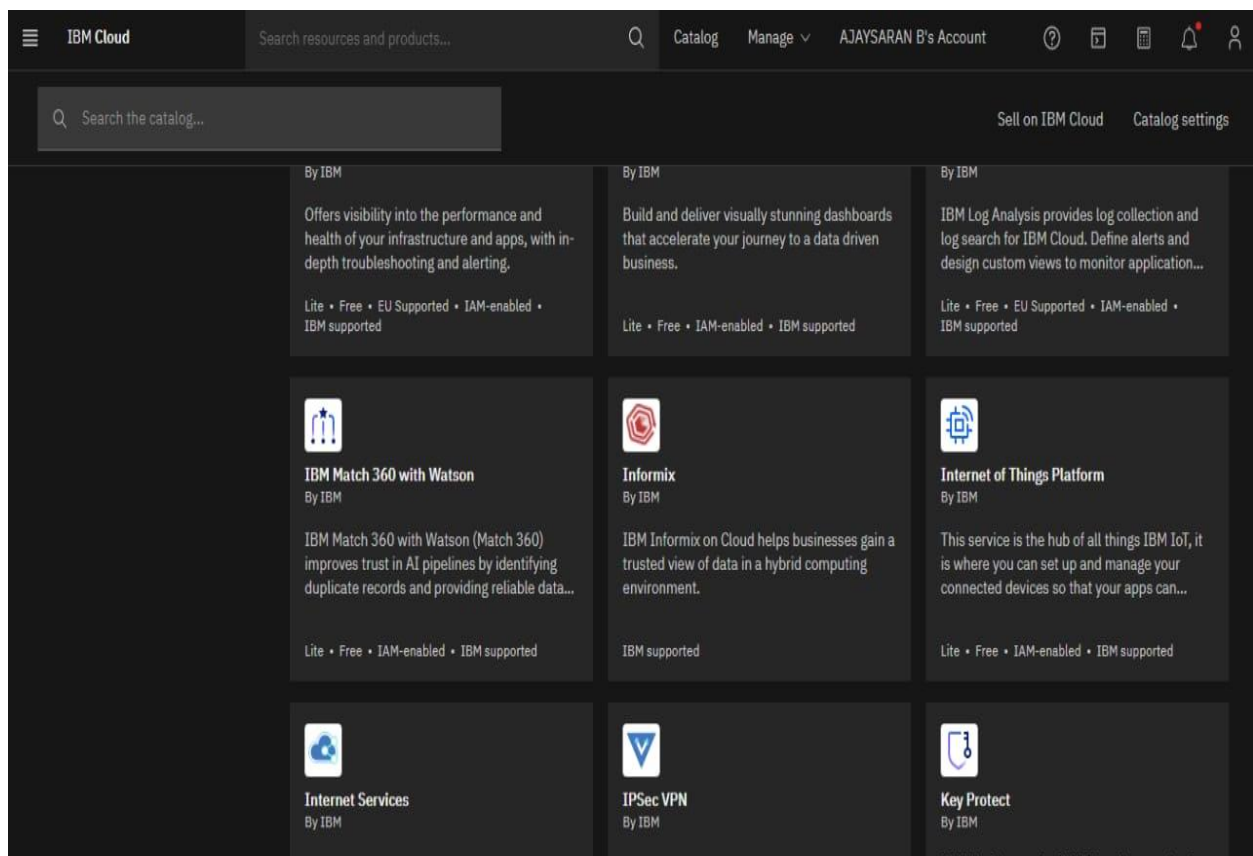


SPRINT-1

Date	29 October 2022
Team ID	PNT2022TMID47455
Project Name	Real Time River Water Quality Monitoring And Control System
Maximum Marks	20 marks

Step-1: Creating IBM Cloud and Using its Service.




Step-2: Configure the IBM cloud service and creating IOT platform

IBM Cloud

Search resources and products...

Catalog Manage AJAYSARAN B's Account

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 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-da

Resource group: Default

Existing Lite plan instance

You can have only 1 Lite plan instance of this service per resource group. [Delete](#) your current Lite plan instance in Default resource group to create a new one, or [view the existing instance](#)

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

Create

Step-3: IBM Watson IOT platform acts as the mediator to connect the web application to IOT devices, hence launching IBM Watson IOT platform.

IBM Cloud

Search resources and products...

Q

Catalog

Manage

AJAYSARAN B's Account

?

Resource list /

Internet of Things Platform-sh 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

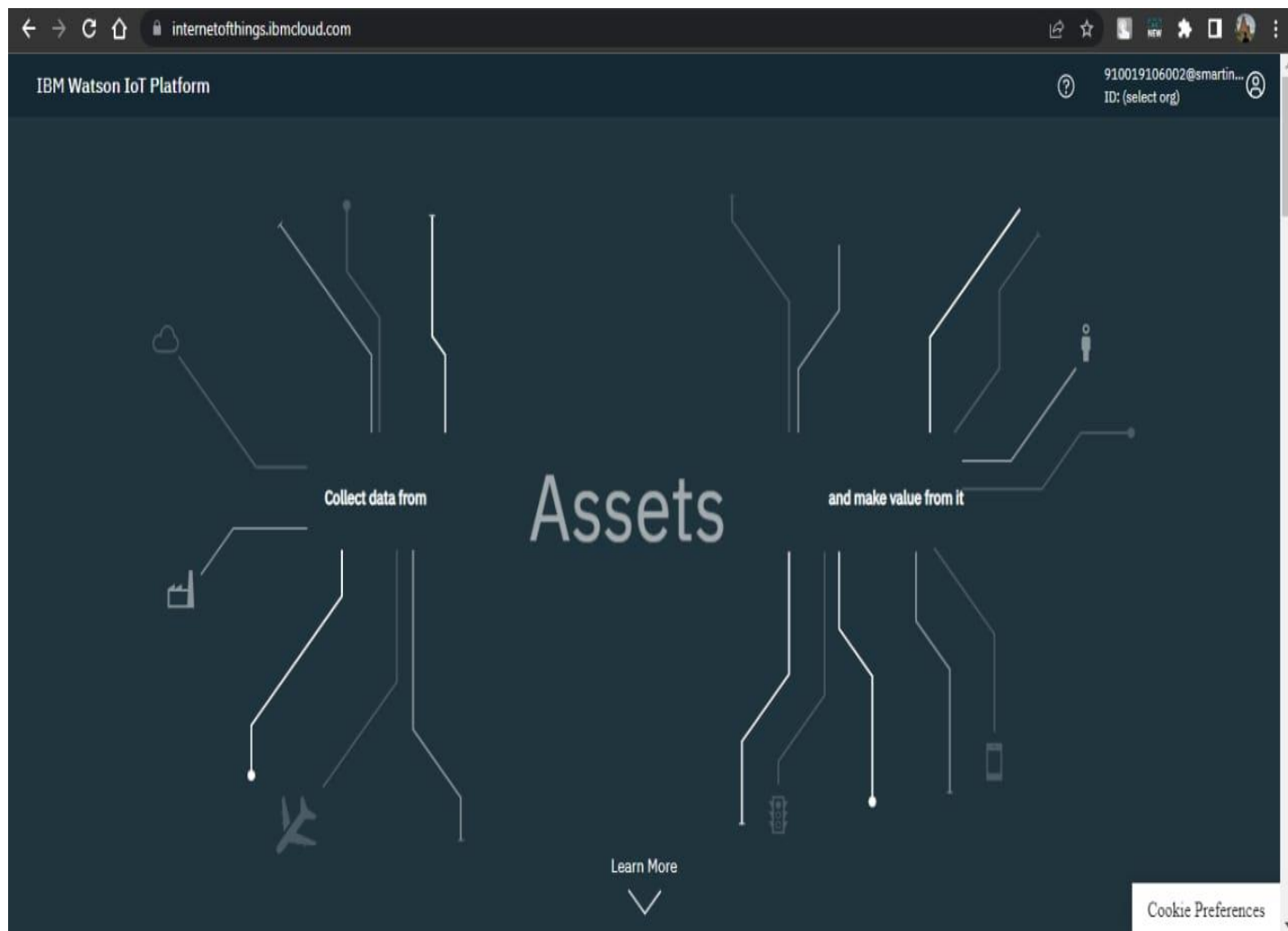
Non-Production

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

Step-4: IBM Watson IOT platform is created



Step-5: In order to connect the IOT device to the IBM cloud ,create device in the IBM Watson IoT Platform and get the device credentials.

IBM Watson IoT Platform

910019106002@smartinternz.com
ID: w1nouz

← Back

Device Drilldown - monitorsensor1

- 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	w1nouz
Device Type	riverwatermonitor1
Device ID	monitorsensor1
Authentication Method	use-token-auth
Authentication Token	iMmXr1Cm6jZ698)An

! Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the device to generate a new authentication token.

0 Simulations running

Find out how to add these credentials to your device

Step-6: Connect the device and start simulating.

The screenshot displays the IBM Watson IoT Platform interface. On the left, a sidebar contains navigation icons. The main header shows 'IBM Watson IoT Platform' and a 'Back' button. The page title is 'Device Drilldown - monitorsensor1'. A left-hand menu lists options: Connection Information, Recent Events, State, Device Information, Metadata, Diagnostics, Connection Logs, and Device Actions. The 'Recent Events' section is active, showing a table with two columns: 'Event' and 'Value'. The table contains five entries, all labeled 'event_1', with values representing JSON payloads of temperature, pH, and turbidity data. A modal window is open on the right, titled 'Device Type: riverwatermonitor1'. It includes a 'Send' button, a 'Schedule' section set to 'Every Minute', and a 'Payload' section with a text editor containing a JSON payload:

```
{ 0: { 1: "Temperature": random(0, 100), 2: "pH": random(0, 100), 3: "Turbidity": random(0, 100) 4: } 5: }
```

. Below the editor is an 'Upload a CSV file' button. At the bottom of the modal are 'Cancel' and 'Save' buttons.

Event	Value
event_1	{"Temperature":20,"pH":35,"Tu
event_1	{"Temperature":7,"pH":74,"Turl
event_1	{"Temperature":15,"pH":24,"Tu
event_1	{"Temperature":40,"pH":60,"Tu
event_1	{"Temperature":39,"pH":16,"Tu

State

SIMULATION:

The simulation shows the Temperature, pH and Turbidity value.

IBM Watson IoT Platform

910019106002@smartinternz.com
ID: w1nouz

← Back

Device Drilldown - monitorsensor1

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

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
event_1	{"Temperature":9,"pH":19,"Turbidity":84}	json	a few seconds ago
event_1	{"Temperature":70,"pH":49,"Turbidity":9}	json	a few seconds ago
event_1	{"Temperature":16,"pH":30,"Turbidity":25}	json	a few seconds ago
event_1	{"Temperature":8,"pH":1,"Turbidity":13}	json	a few seconds ago
event_1	{"Temperature":49,"pH":57,"Turbidity":75}	json	a few seconds ago

1 Simulation running