

SPRINT-2

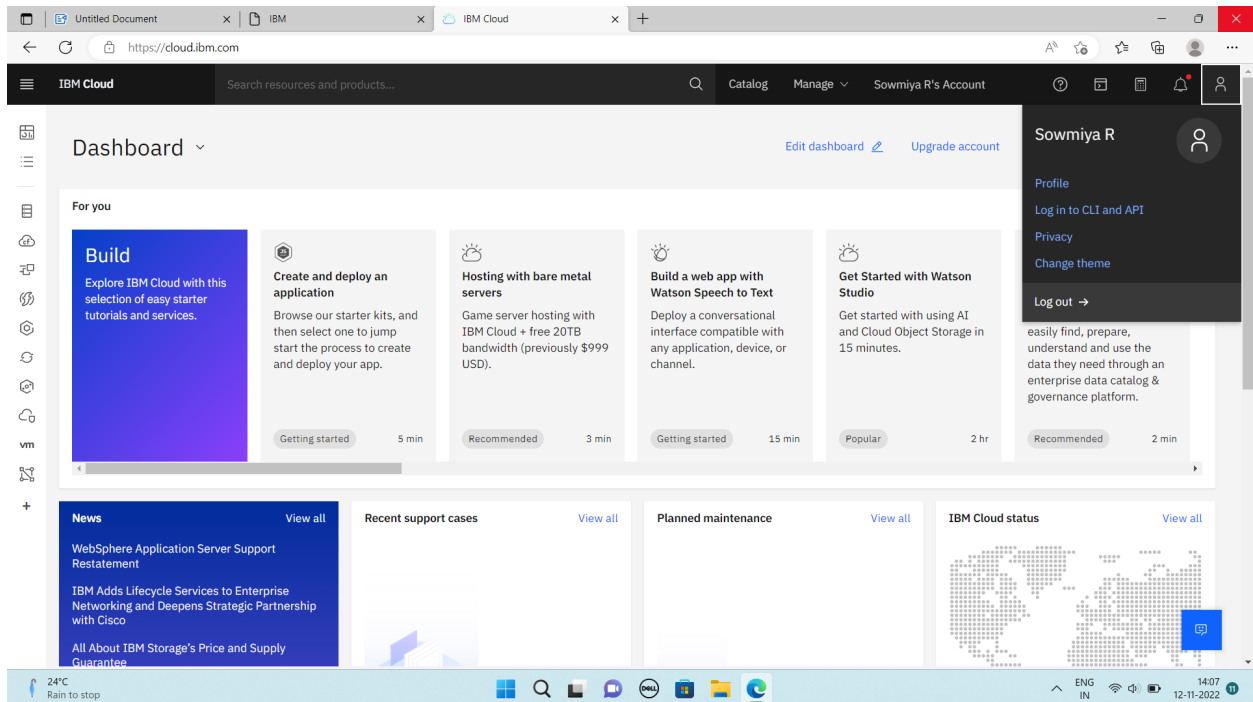
Team ID	PNT2022TMID47693
Project Name	Project - IoT Based Safety Gadget for Child Safety Monitoring and Notification
Team member	1. M. Keerthana 2. R. Sowmiya 3. V. Nivetha 4. V. Janani

Goal:

Create and configure the IBM Cloud services.

Step-1

To create a IBM Cloud Services

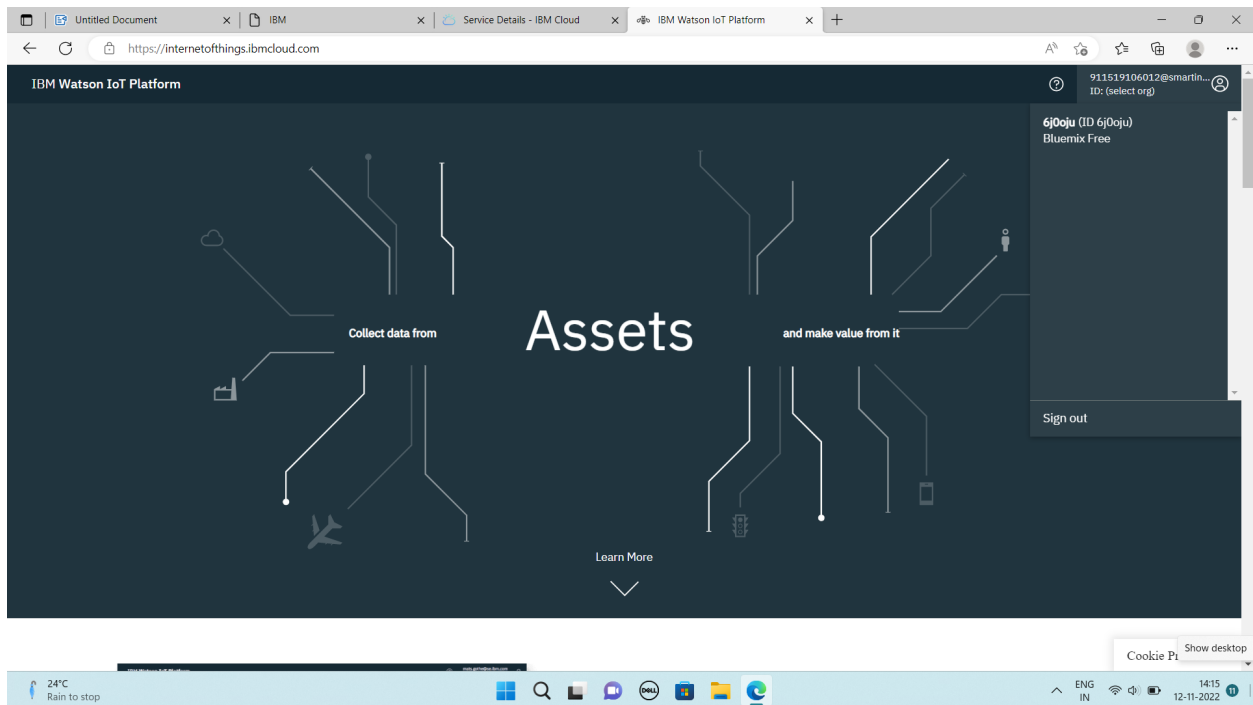


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Step-2

Create IBM Watson IoT Platform And Device

IBM Watson IoT platform acts as the mediator to connect the web application to IoT device, so create the IBM Watson IoT platform.



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In order to connect the IoT device to the IBM cloud, create a device in the IBM Watson IoT platform and get the device credential

The screenshot displays the IBM Watson IoT Platform dashboard. The top navigation bar includes tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. The main content area shows a list of devices. A device with ID '1234' is highlighted, showing its status as 'Disconnected' and type as 'ESP'. A detailed view of this device is shown in a modal window, displaying its identity, device information, recent events, state, and logs. The device information section includes the following details:

Identity	Device Information	Recent Events	State	Logs
Device ID	1234			
Device Type	ESP			
Date Added	Oct 27, 2022 10:01 PM			
Added By	911519106012@smartinternz.com			
Connection Status	Disconnected			

The bottom of the screen shows a Windows taskbar with the date and time as 14:28 on 12-11-2022.

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Step-3

Integrate the python code with IBM Watson IoT Platform.

The screenshot shows the IBM Watson IoT Platform dashboard on the left and a Python 3.7.4 Shell window on the right. The dashboard displays a table of devices, with one device (ID: 1234) in a 'Connected' state. Below the table, there is a section for 'Recent Events' showing a live stream of data. The Python terminal window on the right shows the execution of a script that connects to the IBM Watson IoT platform and publishes data.

Device ID	Status	Device Type	Class ID	Date Added
1234	Connected	ESP	Device	Oct 27, 2022 10:01 PM

Event	Value	Format	Last Rec
status	{"name": "Sowmiya", "lat": 9.28, "lon": 78.5488783}	json	a few s

```
Python 3.7.4 (tags/v3.7.4:09359112e, Jul 8 2019, 20:34:20) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Python\Python37\child.py =====
2022-11-12 14:38:52.158 wiotp.sdk.device.client.DeviceClient INFO C
connected successfully: d:6j0oju:ESP:1234
Data published to IBM IoT platform: {'name': 'Sowmiya', 'lat': 9.28, 'lon': 78.5488783}
```

Step-3

Create board in IBM Watson IoT Platform.

The screenshot shows the IBM Watson IoT Platform dashboard with a custom board titled 'location' for device 1234. The board contains four widgets: a 'Value' widget showing 'sowmiya' with 'name' 34.8° and 'lon' 49.4°; two 'Gauge' widgets showing values 49.4 and 34.8; and a 'Device info' widget displaying details about the device, including its name, type, client ID, creator, and creation time.

Device name
1234

Device type
ESP

Client ID
d:6j0oju:ESP:1234

Creator
911519106012@smartinternz.com

Time created
Oct 27, 2022 10:01 PM