

# Sprint-1

Date	2 November 2022
Team ID	PNT2022TMID47485
Project Name	Project: Signs with Smart Connectivity for Better Road Safety
Marks	20 Marks

**US-1:** Create the IBM Cloud services which are being used in this project.

The screenshot displays the IBM Cloud dashboard interface. At the top, there's a navigation bar with the IBM Cloud logo, a search bar, and links for 'Catalog', 'Manage', and 'Sneha S's Account'. The main content area is titled 'Dashboard' and features a 'For you' section with several service tiles: 'Build' (Explore IBM Cloud with this selection of easy starter tutorials and services.), 'Monitor your resources' (Get visibility into the performance and health of your resources.), 'Choose a Database' (Find the right IBM Cloud database for the job.), 'Get started with machine learning + Watson Studio' (Build, run and manage AI models. Prepare data and build models anywhere using open source code or visual modeling. Predict and optimize your outcomes.), and 'Create an application' (Browse... then select one to jump start the process to create and deploy your app.). Each tile includes a 'Getting started' button and a duration (5 min or 10 min). A 'News' section at the bottom highlights 'Announcing IBM Cloud Pak for Network Automation Version 2.4'. On the right, a user profile dropdown for 'Sneha S' is open, showing options like 'Profile', 'Log in to CLI and API', 'Privacy', 'Change theme', and 'Log out'.

**US-2:** Configure the IBM Cloud service which are being used in completing this project.

The screenshot shows the IBM Cloud 'Resource list' page. The browser address bar displays 'cloud.ibm.com/resources'. The page header includes the IBM Cloud logo, a search bar, and navigation links for 'Catalog', 'Manage', and 'Sowmiya P's Account'. The main content area is titled 'Resource list' and features a 'Create resource' button. Below the title is a table with columns: Name, Group, Location, Product, Status, and Tags. The table is currently empty, with filter boxes provided for each column. A sidebar on the left lists various resource categories with counts: Compute (0), Containers (0+), Networking (0+), Storage (0+), AI / Machine Learning (0+), Analytics (0+), Blockchain (0+), Databases (0+), Developer tools (0+), Logging and monitoring (0+), and Migration (0+). The Windows taskbar at the bottom shows the search bar and system tray with a temperature of 30°C and the date 02-11-2022.

**US-3:** IBM Watson IoT Platform acts as the mediator to connect the web application to IoT devices, so create the IBM Watson IoT platform.

The screenshot displays the 'Internet of Things Platform-8q' page in the IBM Cloud console. The browser address bar shows a long URL for the service. The page header is consistent with the previous screenshot, but the user account is 'Sneha S's Account'. The main heading is 'Internet of Things Platform-8q', followed by a green 'Active' status and an 'Add tags' link. On the right, there are links for 'Details' and 'Actions...'. A left sidebar contains a 'Manage' section with sub-links for 'Plan' and 'Connections'. The main content area features a large graphic of a central node connected to several peripheral nodes. To the right of the graphic is the text 'Let's get started with IBM Watson IoT Platform' and a description: 'Securely connect, control, and manage devices. Quickly build IoT applications that analyze data from the physical world.' Below this text are 'Launch' and 'Docs' buttons. Further down, a section titled 'Ready for the next level?' introduces the 'IBM Watson IoT Platform Journey'. This journey is depicted as a three-step process: 1. 'Lite' (marked with a checkmark), described as a 'lightweight development environment to get you started'; 2. 'Non-Production', described as a 'fully featured, fully-integrated offering that enables'; and 3. 'Production', described as a 'fully managed SaaS offering that enables you to manage and analyze'. The Windows taskbar at the bottom shows a temperature of 27°C and the date 02-11-2022.

**US-4:** In order to connect the IoT device to the IBM Cloud, create a device in IBm Watson IoT platform and get device credentials.

The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A search bar is present with the text 'Search by Device ID'. The main content area displays a table of devices. The first device, 'PNT2022TMID47485', is in a 'Disconnected' state. Below the table, a detailed view for this device is shown, including its identity, device information, recent events, state, and logs. The device information section lists the following details:

Property	Value
Device ID	PNT2022TMID47485
Device Type	PNT2022TMID47485
Date Added	Nov 2, 2022 12:36 PM
Added By	910019106040@student.autmdu.in
Connection Status	Disconnected

The bottom of the screen shows the Windows taskbar with the search bar and system tray.

This screenshot shows the same IBM Watson IoT Platform dashboard, but with the 'Recent Events' tab selected for the device 'PNT2022TMID47485'. The 'Device Simulator' toggle is now turned on. The 'Recent Events' section displays a list of events:

Event	Value	Format	Last Received
event_1	{"randomNumber":99}	json	a few seconds ago
event_1	{"randomNumber":98}	json	a few seconds ago
event_1	{"randomNumber":9}	json	a few seconds ago
event_1	{"randomNumber":81}	json	a few seconds ago
event_1	{"randomNumber":75}	json	a few seconds ago

A notification at the bottom right of the events table states '1 Simulation running'. The Windows taskbar at the bottom shows the time as 01:24 PM on 02-11-2022.

IBM Watson IoT Platform

33lnun.internetofthings.ibmcloud.com/dashboard/devices/browse

910019106032@student.autmd.edu.in  
ID: 33lnun

Browse Action Device Types Interfaces

Device Type: PNT2022TMID47485

Events 1

New event type

Event type name event\_1 Send

Schedule 20 Every Minute

Payload

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

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

Upload a CSV file

Cancel Save

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
event_1	{"Temperature":11,"Humidity":65,"Rain":25}	json
event_1	{"Temperature":9,"Humidity":26,"Rain":42}	json
event_1	{"Temperature":29,"Humidity":27,"Rain":34}	json
event_1	{"Temperature":69,"Humidity":87,"Rain":57}	json
event_1	{"Temperature":43,"Humidity":6,"Rain":99}	json

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introduction to e....pdf Removed

Show all

IBM Watson IoT Platform

33lnun.internetofthings.ibmcloud.com/dashboard/devices/browse

910019106032@student.autmd.edu.in  
ID: 33lnun

Browse Action Device Types Interfaces

Device Type: PNT2022TMID47485

Device 2 Nov 2022 17:29

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	{"Temperature":27,"Humidity":29,"Rain":22}	json	a few seconds ago
event_1	{"Temperature":11,"Humidity":65,"Rain":25}	json	a few seconds ago
event_1	{"Temperature":9,"Humidity":26,"Rain":42}	json	a few seconds ago
event_1	{"Temperature":29,"Humidity":27,"Rain":34}	json	a few seconds ago
event_1	{"Temperature":69,"Humidity":87,"Rain":57}	json	a few seconds ago

Items per page 50 | 1-1 of 1 item

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1 Simulation running

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Show all

