

Sprint-1

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|--------------|---|
| Date | 2 November 2022 |
| Team ID | PNT2022TMID05133 |
| 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 service categories with their respective 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 system clock as 11:40 AM on 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 'Service Details' page for the 'Internet of Things Platform-8q' in the IBM Cloud console. The browser address bar shows a long URL for the IoT service. The page header is consistent with the previous screenshot, but the user account is now 'Sneha S's Account'. The main content area is titled 'Internet of Things Platform-8q' and indicates the service is 'Active'. A 'Manage' sidebar on the left contains links for 'Plan' and 'Connections'. The central content area features a large graphic of a central node connected to multiple peripheral nodes. To the right of the graphic, the text reads 'Let's get started with IBM Watson IoT Platform' followed by 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' with three stages: 'Lite', 'Non-Production', and 'Production'. Each stage has a brief description: 'The Lite service plan provides a lightweight development environment to get you started', 'The Non-Production service plan is a full-featured, fully-integrated offering that enables', and 'The Production service is a fully managed SaaS offering that enables you to manage and analyze'. The Windows taskbar at the bottom shows the system clock as 12:10 PM on 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 tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. A search bar labeled 'Search by Device ID' is present. The main table lists devices with columns: Device ID, Status, Device Type, Class ID, and Date Added. The first device, PNT2022TMID47485, is highlighted. A sidebar on the right displays details for this device, including its ID, type, date added, and connection status.

| Device ID | Status | Device Type | Class ID | Date Added |
|--------------------|--------------|--------------------|----------|----------------------|
| PNT2022TMID47485 | Disconnected | PNT2022TMID47485 | Device | Nov 2, 2022 12:36 PM |
| PNT2022TMID47485-1 | Disconnected | PNT2022TMID47485-1 | Device | Nov 2, 2022 1:07 PM |

Items per page 50 | 1-2 of 2 items

The screenshot shows the IBM Watson IoT Platform dashboard with the 'Recent Events' tab selected for device PNT2022TMID47485. The 'Device Simulator' toggle is turned on. A table displays recent events with columns: Event, Value, Format, and Last Received. A notification at the bottom indicates '1 Simulation running'.

| 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 |

1 Simulation running

IBM Watson IoT Platform

Device Type: PNT2022TMID47485

Events 1

Event type name: event_1

Schedule: 20 Every Minute

Payload

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

Upload a CSV file

Cancel Save

| 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 |

Items per page 50 | 1-1 of 1 item

IBM Watson IoT Platform

Device: PNT2022TMID47485

Recent Events

| 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

1 of 1 page

1 Simulation running

