

Sprint-1

Date	14 November 2022
Team ID	PNT2022TMID41135
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'.

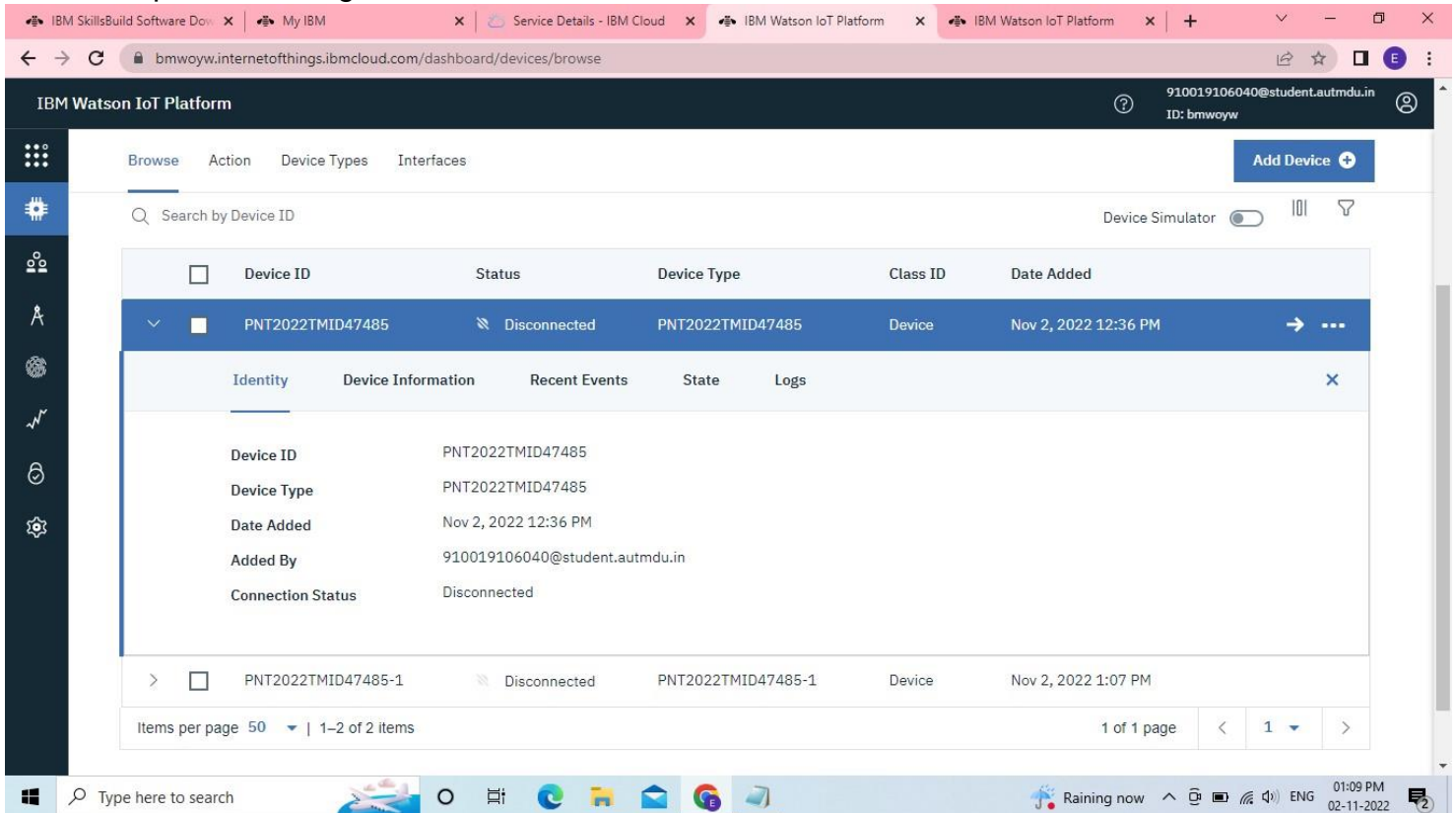
US-2: Configure the IBM Cloud service which are being used in completing this project.

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. On the left side of the table, there is a list of service categories with expandable arrows and 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, several application icons, and system information including '30°C Cloudy' 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 '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 service. The page header is consistent with the previous screenshot, showing 'Sneha S's Account'. The main content area has a title 'Internet of Things Platform-8q' with an 'Active' status and an 'Add tags' link. Below the title is a 'Manage' sidebar with options for 'Plan' and 'Connections'. The central part of the page features a large graphic of a central node connected to several 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.' There are 'Launch' and 'Docs' buttons. Below this, a section titled 'Ready for the next level?' introduces the 'IBM Watson IoT Platform Journey'. It shows a progress bar with three stages: 'Lite' (completed, marked with a checkmark), 'Non-Production' (in progress, marked with a circle), and 'Production' (not started, marked with a circle). 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 search bar, application icons, and system information including '27°C Cloudy' 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.

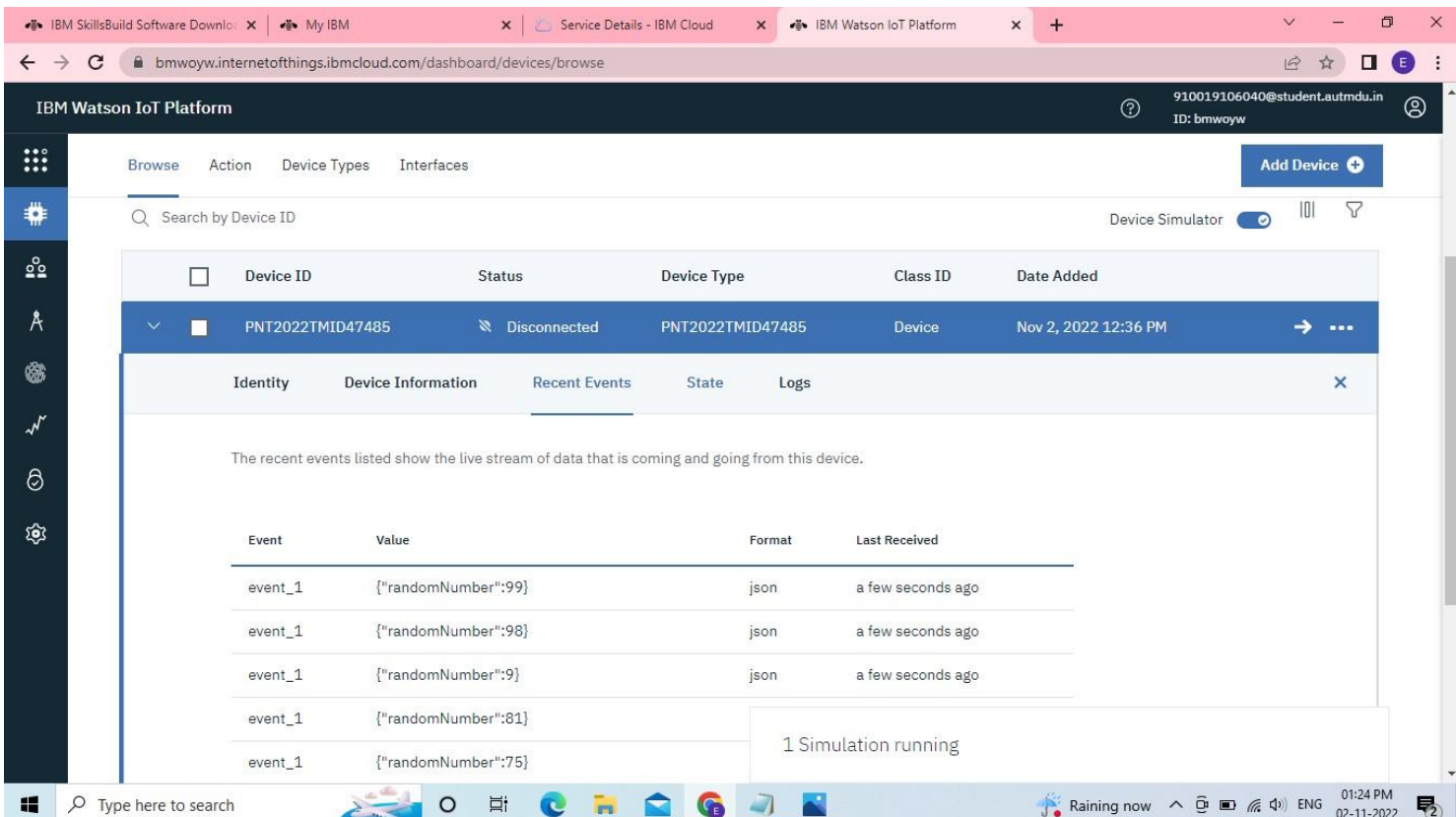


The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes tabs for "Browse", "Action", "Device Types", and "Interfaces". A search bar labeled "Search by Device ID" is present. The main table lists devices with columns: Device ID, Status, Device Type, Class ID, and Date Added. The first device, PNT2022TMID47485, is selected, and its details are shown in a sidebar. The sidebar includes tabs for "Identity", "Device Information", "Recent Events", "State", and "Logs". The "Device Information" tab is active, showing details for the selected device.

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

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The screenshot shows the IBM Watson IoT Platform dashboard with the "Recent Events" tab selected for the device PNT2022TMID47485. The table displays a stream of 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

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

