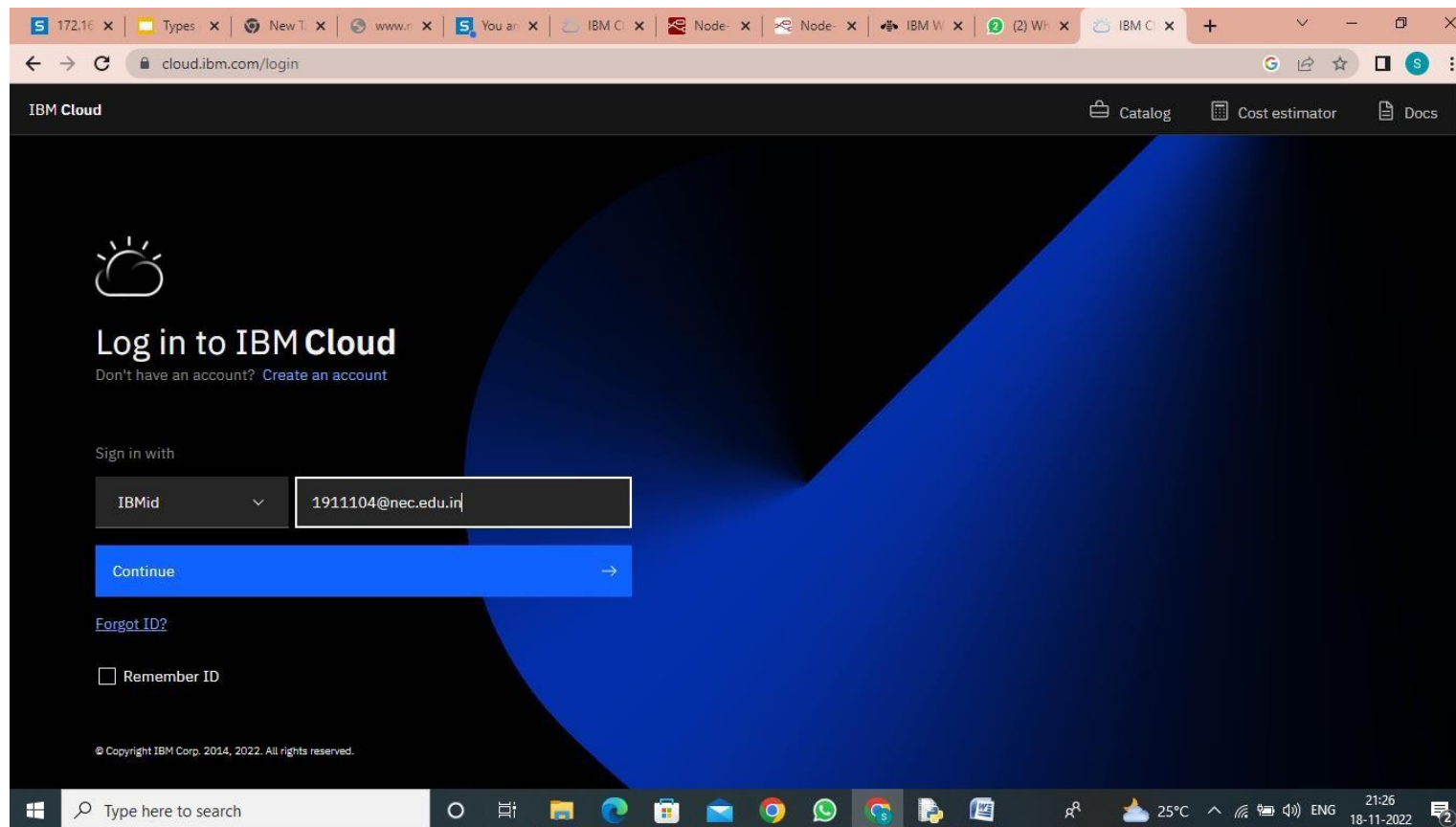


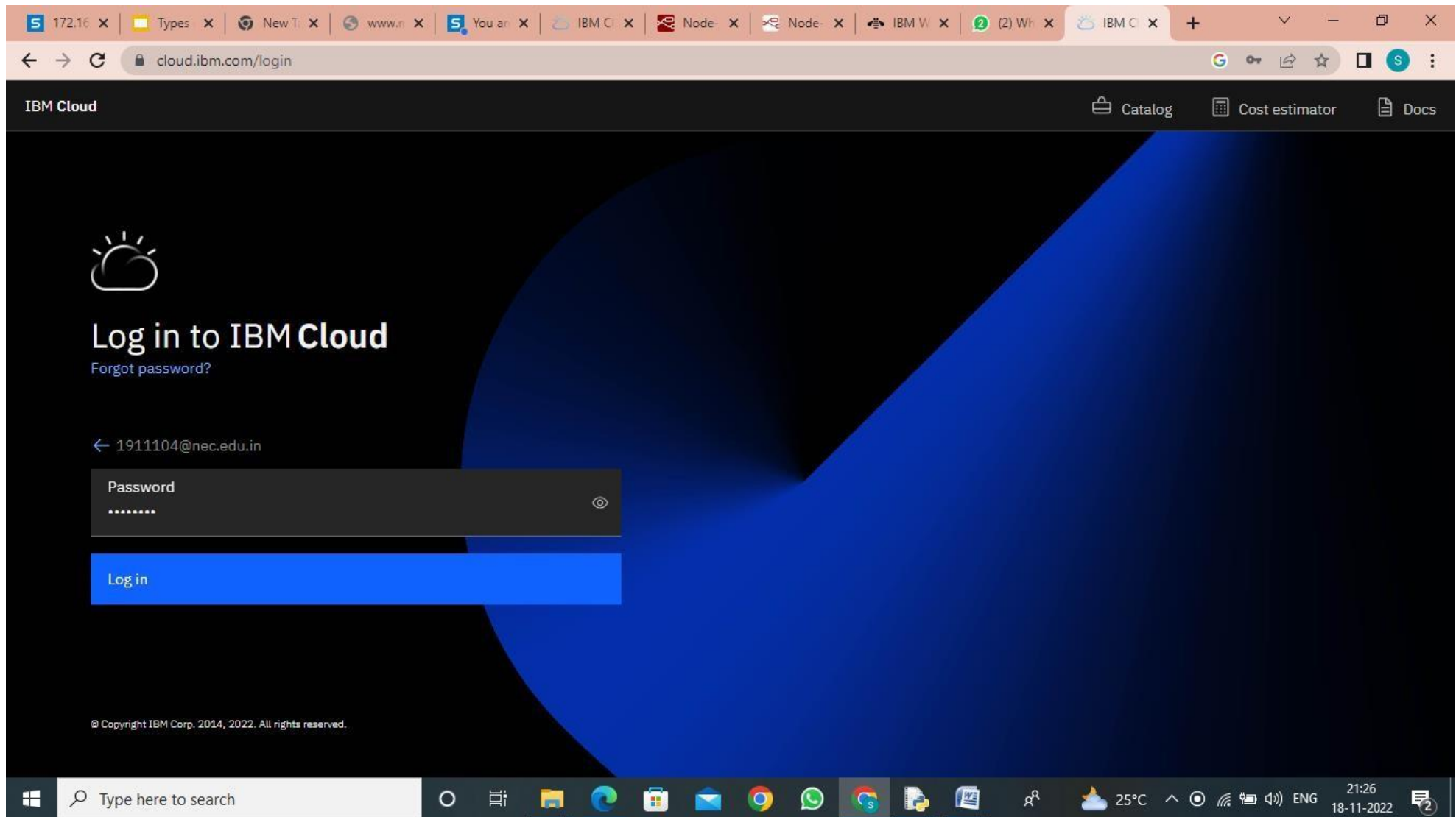
## Project Development Phase

### Create the IBM Watson IOT platform and a device

Date	29 October 2022
Team ID	PNT2022TMID20329
Project Name	Project –Gas leakage monitoring and alerting system for industries



## Step 2: Logged in to IBM cloud account



### Step 3: Click on Catalog to search Internet Of Things

The screenshot shows the IBM Cloud dashboard interface. The top navigation bar includes the IBM Cloud logo, a search bar, and links to 'Catalog', 'Manage', and 'SOBANA A's Account'. The 'Catalog' tab is selected. The main content area is titled 'Dashboard' and features a 'For you' section with several service cards. The 'Catalog' card is highlighted, showing 'Explore our unique product catalog that contains 190+ services and software for your business solutions.' Below this, there are sections for 'User access', 'News', and 'Planned maintenance'. The Windows taskbar is visible at the bottom, showing the search bar and various application icons.

IBM Cloud

Search resources and products...

Catalog Manage SOBANA A's Account

Dashboard

Edit dashboard Upgrade account Create resource

For you

Select an option

**Build**  
Explore IBM Cloud with this selection of easy starter tutorials and services.

**Explore IBM Cloud Shell**  
Try a command-driven approach for creating, developing, and deploying a web project.  
Getting started 2 min

**Visit the IBM Cloud catalog**  
Explore our unique product catalog that contains 190+ services and software for your business solutions.  
Getting started 1 min

**Build a web app with Watson Speech to Text**  
Deploy a conversational interface compatible with any application, device, or channel.  
Getting started 15 min

**Get Started with Watson Studio**  
Get started with using AI and Cloud Object Storage in 15 minutes.  
Popular 2 hr

**Build a Cloud (**  
Upgrad to crea protect Cloud.  
Getting started

**User access** Manage users  
Enter email addresses below to jump directly into the invite user setup:

**News** View all  
IBM Named a Leader in Gartner Magic Quadrant for Full Life Cycle API Management  
IBM to Introduce a New Incident Management SaaS

**Planned maintenance** View all

Type here to search

25°C 21:27 18-11-2022

Step 4: search for Internet of Things Platform and login to and finished further processes

The screenshot displays the IBM Cloud Catalog web application. The browser's address bar shows the URL `cloud.ibm.com/catalog`. The top navigation bar includes the IBM Cloud logo, a search bar, and links for Catalog, Manage, and the user's account (SOBANA A's Account). Below the navigation bar, there's a large banner area with the word "Catalog" and a search input field. To the right of the banner is an illustration of various IoT and cloud services. Below the banner, the main content area is divided into sections. On the left, there's a "Category" sidebar with options like Recommended products, Compute, Containers, Networking, Storage, AI / Machine Learning, Analytics, and Blockchain. The main content area displays three product cards: "Analytics Engine" by IBM, "AnonTech ViziVault Platform" by Anon Technology, Inc., and "API Connect" by IBM. Each card includes a description and a list of features (e.g., Lite, Free, HIPAA Enabled, IAM-enabled). The bottom of the screen shows the Windows taskbar with various application icons and the system clock indicating 21:27 on 18-11-2022.

IBM Cloud

Search resources and products...

Catalog Manage SOBANA A's Account

Sell on IBM Cloud Catalog settings

# Catalog

Search the catalog...

Category

- Recommended products
- Compute
- Containers
- Networking
- Storage
- AI / Machine Learning
- Analytics
- Blockchain

Alphabetically

**Analytics Engine**  
By IBM

Submit your Apache Spark applications as needed and customize the Spark runtimes to satisfy the requirements of your application.

Lite • Free • HIPAA Enabled • IAM-enabled •

**AnonTech ViziVault Platform**  
By Anon Technology, Inc.

Manage personal information as-a-service safely, securely, and in compliance with data privacy regulations using ViziVault

Lite • Free • HIPAA Enabled • IAM-enabled •

**API Connect**  
By IBM

An enterprise-grade platform for creating, securing, managing, sharing, monetizing, and analyzing custom APIs located on-premises...

Lite • Free • EU Supported • IAM-enabled •

Type here to search

21:27 18-11-2022

Step 5: After clicking on Resource list select Internet of things platform and click on launch

The screenshot shows the IBM Cloud web interface. The browser's address bar displays the URL: `cloud.ibm.com/services/iotf-service/crn%3Av1%3Abluemix%3Apublic%3Aaio%3Aa%2F66829f25ab364643aa6b13cbc8b91343%3A5057af3c-d7ff...`. The page header includes the IBM Cloud logo, a search bar, and navigation links for Catalog, Manage, and the user account (SOBANA A's Account). The main content area is titled "Internet of Things Platform-dp" and shows a status of "Active". A sidebar on the left contains links for Manage, Plan, and Connections. The central panel features a large graphic of a central node connected to various devices, with the heading "Let's get started with IBM Watson IoT Platform". Below this, a "Launch" button is prominently displayed next to a "Docs" button. A section titled "Ready for the next level?" introduces the "IBM Watson IoT Platform Journey" with three stages: Lite (marked with a checkmark), Non-Production, and Production. Each stage has a brief description of its capabilities. The bottom of the screen shows the Windows taskbar with various application icons and system information like the date and time (21:28, 18-11-2022).

172.16.1 x | Types of x | New Tab x | www.ms x | You are x | IBM Clo x | Node-R x | Node-R x | (2) Wha x | Service x | +

cloud.ibm.com/services/iotf-service/crn%3Av1%3Abluemix%3Apublic%3Aaio%3Aa%2F66829f25ab364643aa6b13cbc8b91343%3A5057af3c-d7ff...

IBM Cloud Search resources and products... Catalog Manage SOBANA A's Account

Resource list / Internet of Things Platform-dp 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 Non-Production Production

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

The Production service is a fully managed SaaS offering that enables you to manage and analyze

Type here to search 25°C ENG 21:28 18-11-2022



Step 6: Refresh the page and the login page will appear.

The screenshot shows a web browser window with the URL `internetofthings.ibmcloud.com`. The browser's tab bar contains several open tabs, including "172.16...", "Types...", "New T...", "www.m...", "You an...", "IBM C...", "Node-", "Node-", "(2) Wh...", "Service...", and "IBM W...". The page header displays "IBM Watson IoT Platform" on the left and a "Sign in" button on the right. The main content area features a dark blue background with a white circuit-like graphic. The word "Cars" is prominently displayed in the center. To the left of "Cars", the text "Collect data from" is positioned above icons of a cloud, a factory, and an airplane. To the right of "Cars", the text "and make value from it" is positioned above icons of a person, a smartphone, and a car. Below the "Cars" text, a "Learn More" link is visible. At the bottom of the browser window, a status bar shows "Waiting for bat.bing.com...", a search bar with the text "Type here to search", and a taskbar with various application icons. The system tray on the right indicates a temperature of 25°C, the date 18-11-2022, and the time 21:28.

Step 7: Login Into the window for IBM Watson and find the created Device

172.16 x Types x New T x www.m x S You an x IBM C x Node- x Node- x (2) Wh x Service x IBMId x

login.ibm.com/authsvc/mtfim/sps/authsvc?PolicyId=urn:ibm:security:authentication:asf:basicdapuser&Target=https%3A%2F%2Flogin.ibm.com%2Foidc%2Fendpoint%2F...

IBM

## Log in to IBM

IBMid [Forgot IBMId?](#)

1911104@nec.edu.in

☐ Remember me ⓘ

Continue →

Don't have an account? [Create an IBMId](#)

Need help? [Contact the IBMId help desk](#)

Contact Privacy Terms of use Accessibility Cookie preferences

Powered by IBM Security Verify

Type here to search

25°C 21:29 18-11-2022

Step 8 : Then click on the profile and click on the bluemix with organization id

The screenshot displays the IBM Watson IoT Platform interface in a web browser. The browser's address bar shows the URL `internetofthings.ibmcloud.com`. The page header includes the text "IBM Watson IoT Platform" and a user profile section with the email `1911104@nec.edu.in` and the prompt "ID: (select org)".

The main content area features a dark blue background with a central white text "Cars". To the left of "Cars" is the text "Collect data from" accompanied by icons of a cloud, a factory, and an airplane. To the right of "Cars" is the text "and make value from it" accompanied by icons of a person, a smartphone, and a car. Below the central "Cars" text is a "Learn More" link.

The bottom of the image shows a Windows taskbar with a search bar labeled "Type here to search" and several application icons. The system tray on the right indicates a temperature of 25°C, the date 18-11-2022, and the time 21:29.



Step 9 : Then turn on device simulator and then create a random function for Temperature, Humidity and Gas Level.

The screenshot displays the IBM Watson IoT Platform dashboard. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A search bar for 'Device ID' is present. The 'Device Simulator' toggle is turned on. The main content area shows a table of devices, with '1911104-iot' selected. Below the table, the 'Recent Events' tab is active, displaying a stream of JSON data from the device.

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
1911104-iot	Connected	1911104	Device	Nov 17, 2022 11:59 AM	

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
IoTSensor	{"temp":25,"Humid":48,"gas":1496}	json	a few seconds ago
IoTSensor	{"temp":119,"Humid":98,"gas":1473}	json	a few seconds ago
IoTSensor	{"temp":16,"Humid":78,"gas":1326}	json	a few seconds ago
event_1	{"gas":15}	json	a few seconds ago
event_1	{"gas":83}	json	a minute ago

