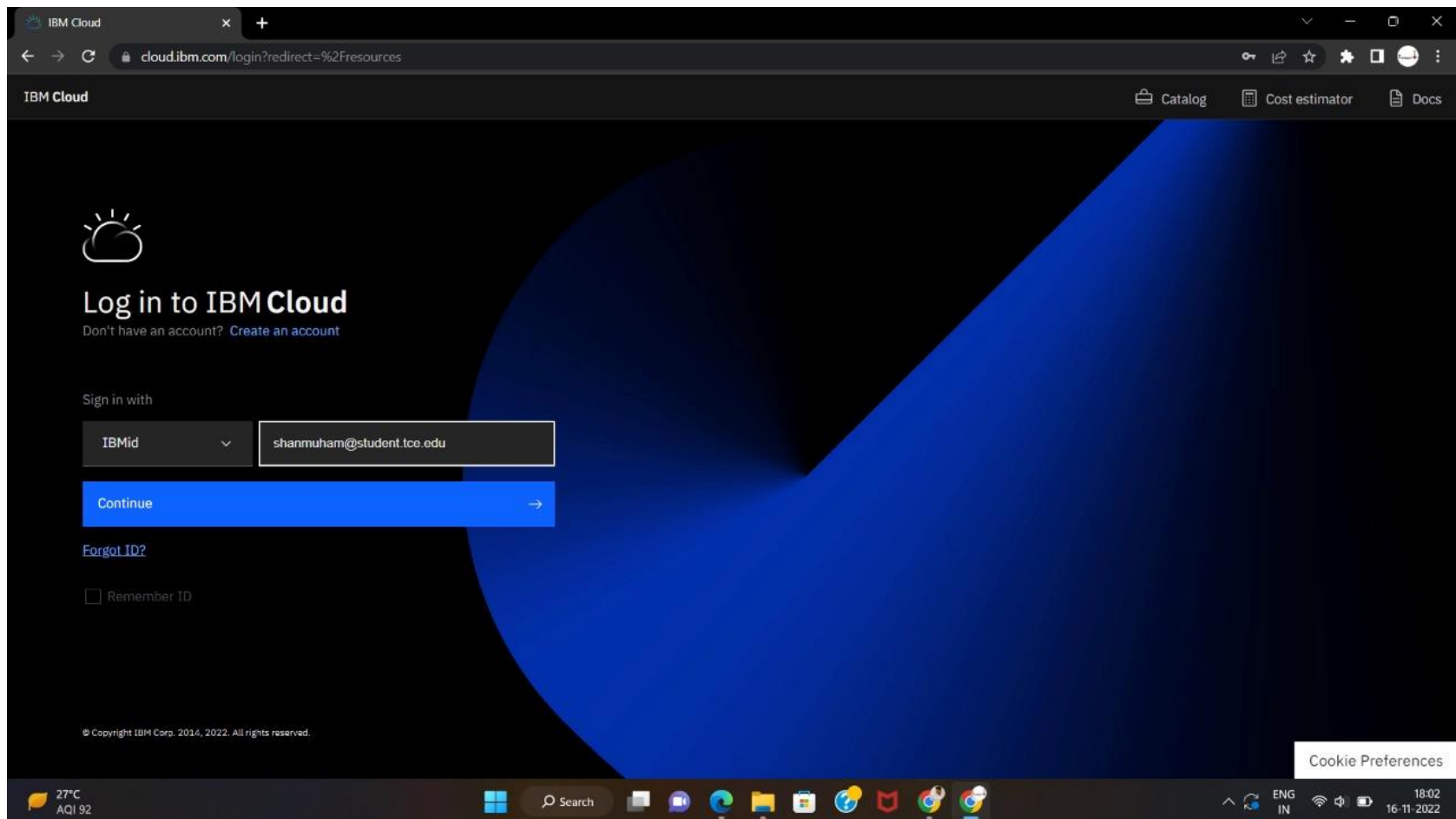


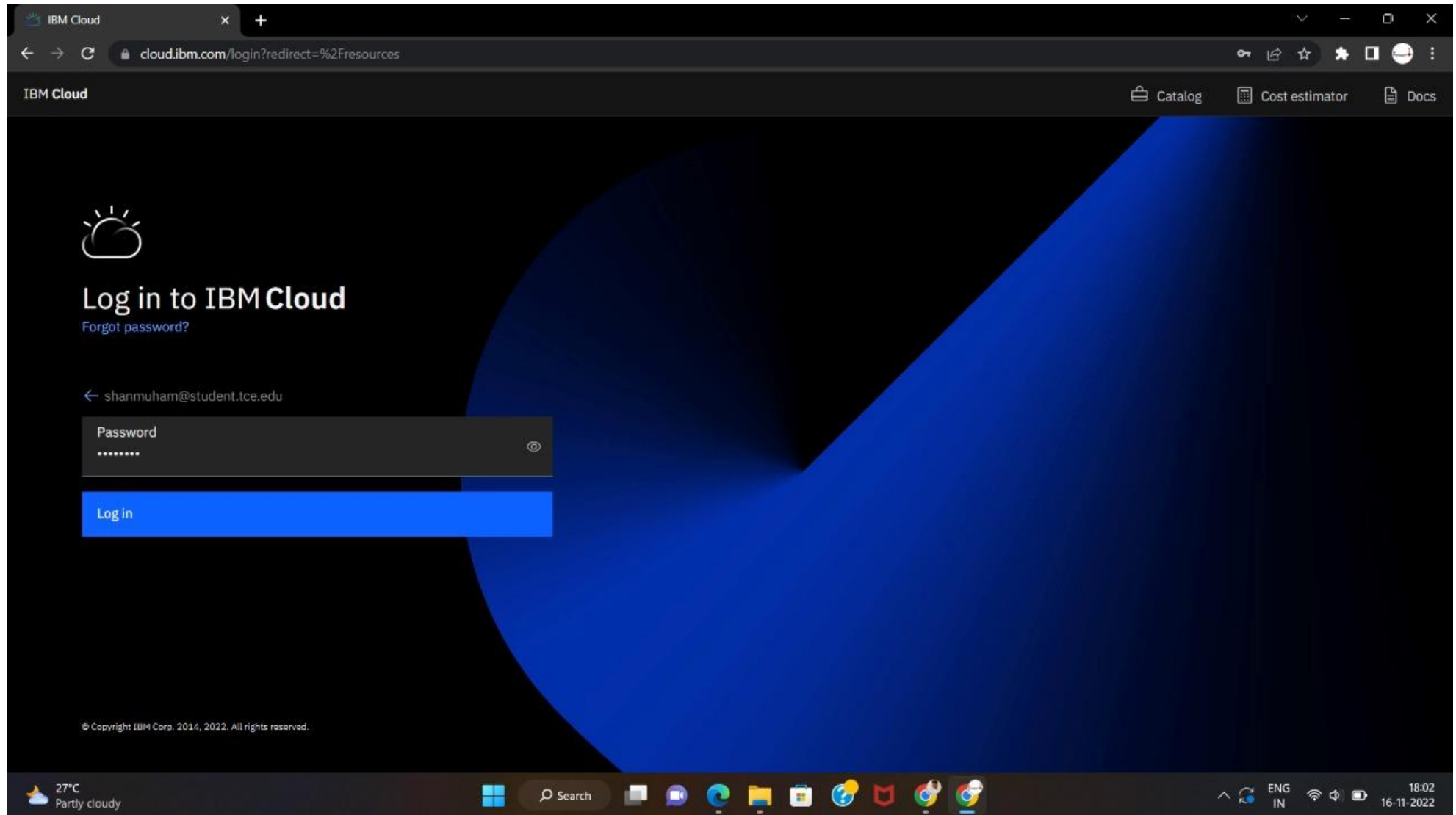
## Project Development Phase

### Delivery of Sprint 1

Date	16 November 2022
Team ID	PNT2022TMID21463
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 displays the IBM Cloud dashboard interface. At the top, the browser address bar shows 'cloud.ibm.com'. The dashboard header includes the 'IBM Cloud' logo, a search bar, and navigation links for 'Catalog', 'Manage', and the user profile 'SHANMUHAM saravana...'. A 'Create resource' button is prominently displayed on the right.

The main content area is titled 'Dashboard' and features a 'For you' section with several service tiles:

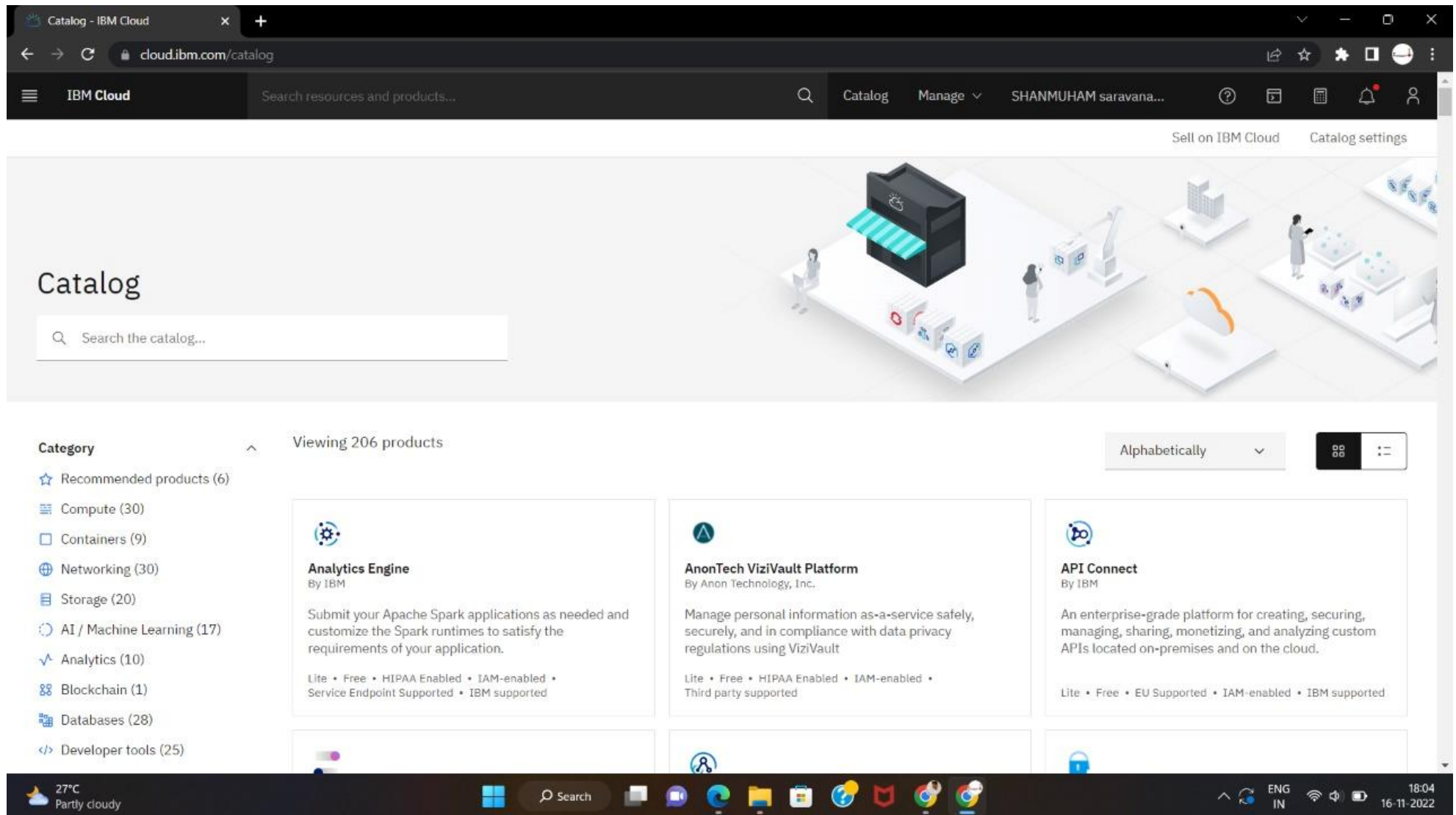
- Build**: Explore IBM Cloud with this selection of easy starter tutorials and services.
- Build a web app with Watson Speech to Text**: Deploy a conversational interface compatible with any application, device, or channel. (Getting started, 15 min)
- Get Started with Watson Studio**: Get started with using AI and Cloud Object Storage in 15 minutes. (Popular, 2 hr)
- Build a Virtual Private Cloud (VPC)**: Upgrade to a paid account to create your own protected space in the IBM Cloud. (Getting started, 7 min)
- Learn about IAM Roles**: Learn about roles in IBM Cloud and how they work to control access. (Recommended, 5 min)
- Build a virtual machine**: Lift and shift your VMware workloads to the IBM Cloud. (Getting started, 7 min)

Below the 'For you' section, there are four panels:

- News**: View all. Includes articles like 'IBM Cloud Data Shield Deprecation', 'IBM Watson Orchestrate Is Integrating with ThisWay Global', 'SLSA Support in IBM Cloud Continuous Delivery', and 'WebSphere Application Server Support Restatement'.
- Recent support cases**: View all.
- Planned maintenance**: View all.
- IBM Cloud status**: View all. Includes a world map visualization.

The bottom of the screen shows a Windows taskbar with the date '16-11-2022' and time '18:03'.

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



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

The screenshot displays the IBM Cloud console interface for the 'Internet of Things Platform-0a'. The browser address bar shows the URL: `cloud.ibm.com/services/iotf-service/crn%3Av1%3Abluemix%3Apublic%3Aaio%3Ade%3Aa%2Ff1e3f1cf55dc4c3ab936f408084920e9%3Ade71a60d-5c72-4d61-a371-a69048257c95...`. The page header includes the IBM Cloud logo, a search bar, and navigation links for 'Catalog' and 'Manage'. The user's name 'SHANMUHAM saravana...' is visible in the top right corner.

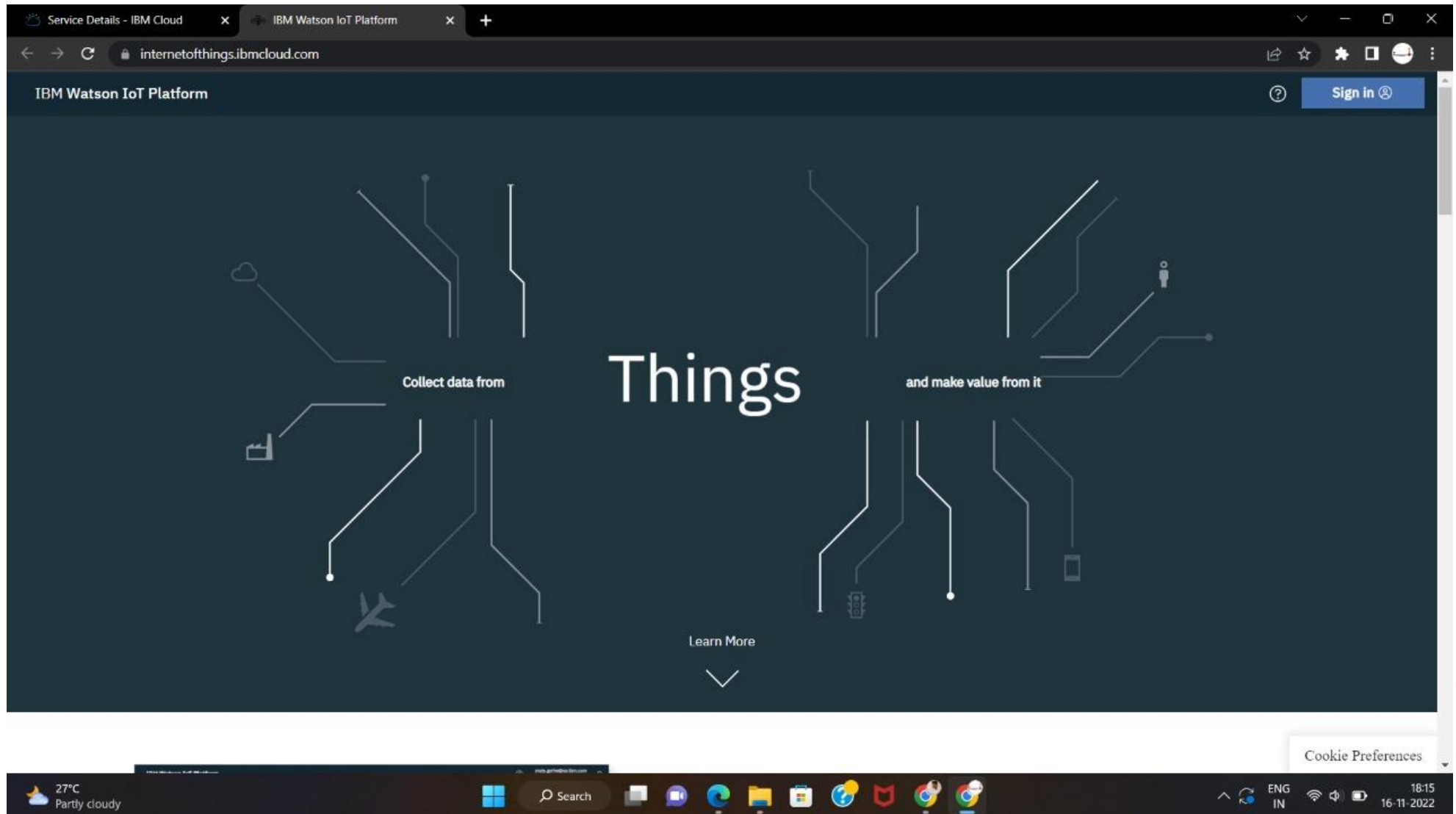
The main content area features a large graphic of a central square with a circle inside, surrounded by various IoT symbols like a car, a house, and a person. To the right of the graphic, the text reads: 'Let's get started with IBM Watson IoT Platform' followed by a description: 'Securely connect, control, and manage devices. Quickly build IoT applications that analyze data from the physical world.' Below this text are two buttons: 'Launch' (in blue) and 'Docs' (in light gray).

Below the main content, there is a section titled 'Ready for the next level?' and 'IBM Watson IoT Platform Journey'. This section contains three columns representing different service plans:

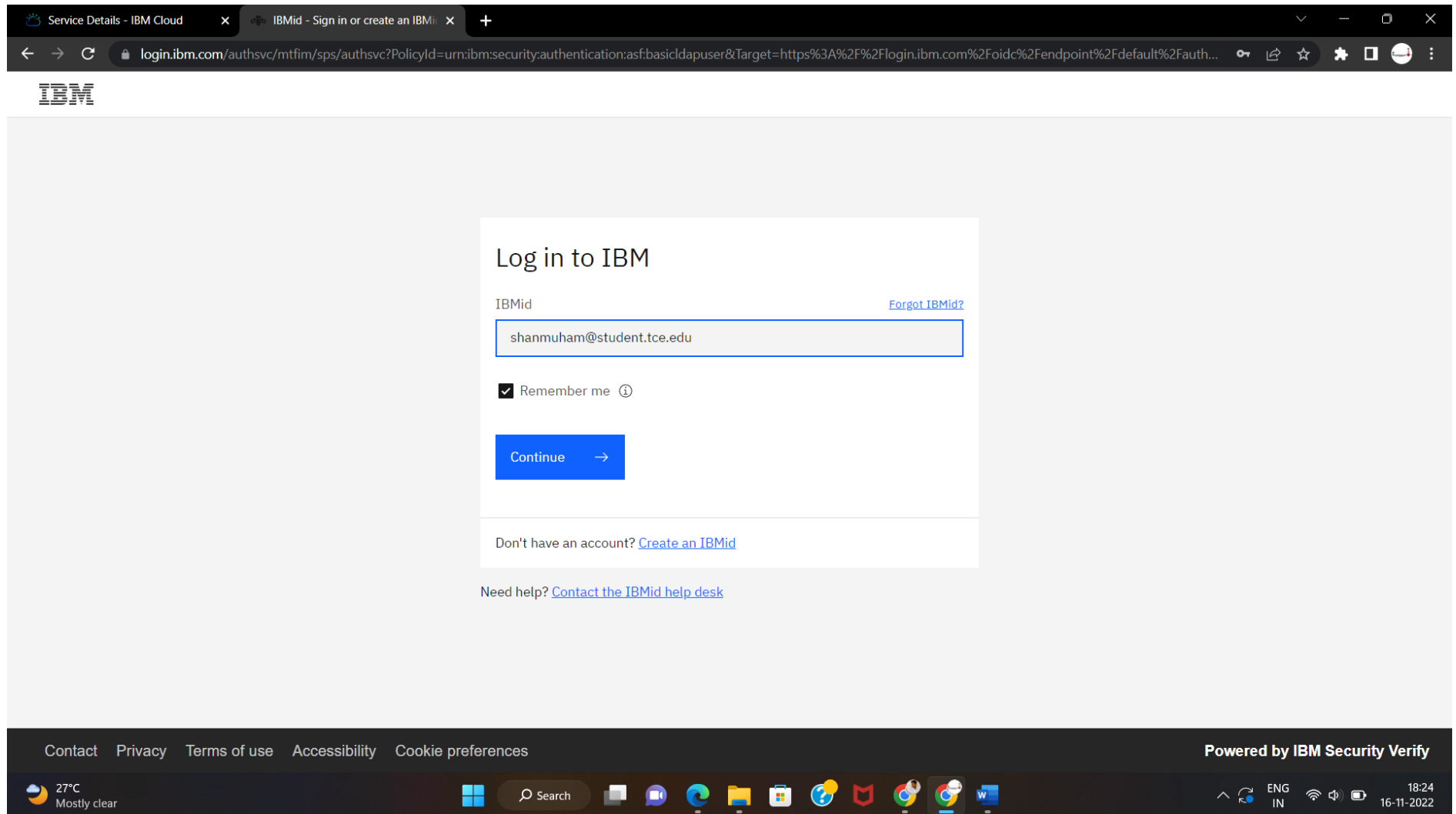
- Lite**: The Lite service plan provides a lightweight development environment to get you started with the connectivity capabilities of Watson IoT Platform. It is marked as 'Free'.
- Non-Production**: The Non-Production service plan is a full-featured, fully-integrated offering that enables you to explore Watson IoT Platform to see how the service can fit into your IoT environment. It 'Starts at \$500 per month'.
- Production**: The Production service is a fully managed SaaS offering that enables you to manage and analyze enterprise IoT data. It 'Includes IBM Service & Support'.

The bottom of the screen shows a Windows taskbar with the date '16-11-2022' and time '18:12'.

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



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



The screenshot shows a web browser window with two tabs: "Service Details - IBM Cloud" and "IBMid - Sign in or create an IBMi". The address bar shows the URL: `login.ibm.com/authsvc/mtfim/sps/authsvc?PolicyId=urn:ibm:security:authentication:asf:basicdapuser&Target=https%3A%2F%2Flogin.ibm.com%2Foidc%2Fendpoint%2Fdefault%2Fauth...`. The IBM logo is visible in the top left corner of the page content.

The main content area displays the "Log in to IBM" form. It includes the following elements:

- Title:** Log in to IBM
- Field Label:** IBMid
- Field Value:** shanmuham@student.tce.edu
- Link:** [Forgot IBMid?](#)
- Checkbox:** ☒ Remember me ⓘ
- Button:** Continue →
- Text:** Don't have an account? [Create an IBMid](#)
- Text:** Need help? [Contact the IBMid help desk](#)

The footer of the page contains links for Contact, Privacy, Terms of use, Accessibility, and Cookie preferences. It also states "Powered by IBM Security Verify".

The Windows taskbar at the bottom shows the system tray with the date and time: 18:24, 16-11-2022. The taskbar also displays the Windows Start button, a search bar, and several application icons including File Explorer, Microsoft Edge, and Google Chrome.

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 `shanmuham@student.tce...` and a prompt to "ID: (select org)".

The main content area features a dark blue background with a central graphic. The word "Cars" is prominently displayed in the center. 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 with a downward-pointing chevron icon.

The Windows taskbar is visible at the bottom of the screen, showing the system clock as 18:25 on 16-11-2022, the language set to "ENG IN", and various application icons including the Start menu, Search, and several open programs like Edge, File Explorer, and Word.



Step 9 : Then turn on device simulator and then create a random function for distance measuring

The screenshot displays the IBM Watson IoT Platform interface. At the top, the header shows the platform name and user information. The main navigation bar includes tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. A search bar is present, and a 'Device Simulator' toggle is visible. The central table lists devices, with one device (ID: 123456789) highlighted. Below the table, the 'Recent Events' tab is selected, showing a live stream of data. The data includes an event named 'Data' with a value of '{"Distance":73.61,"ALERT!!":"Distance less than ...}' in JSON format, received 'a few seconds ago'.

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
123456789	Connected	shan	Device	Oct 29, 2022 10:04 PM	

Event	Value	Format	Last Received
Data	{"Distance":73.61,"ALERT!!":"Distance less than ...}	json	a few seconds ago

