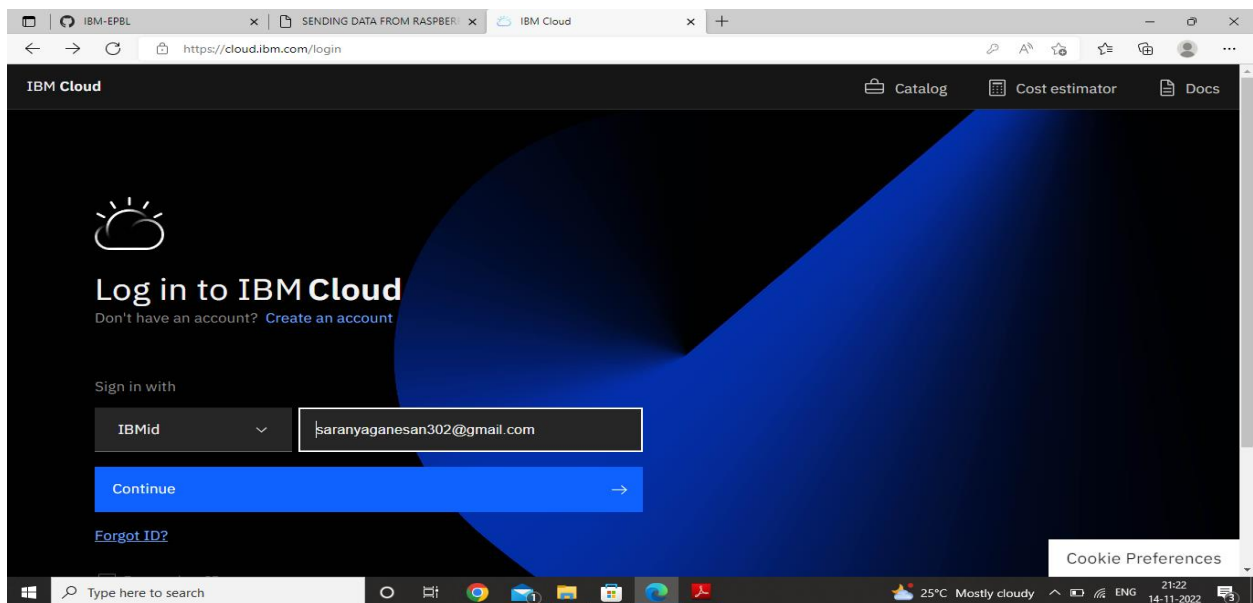


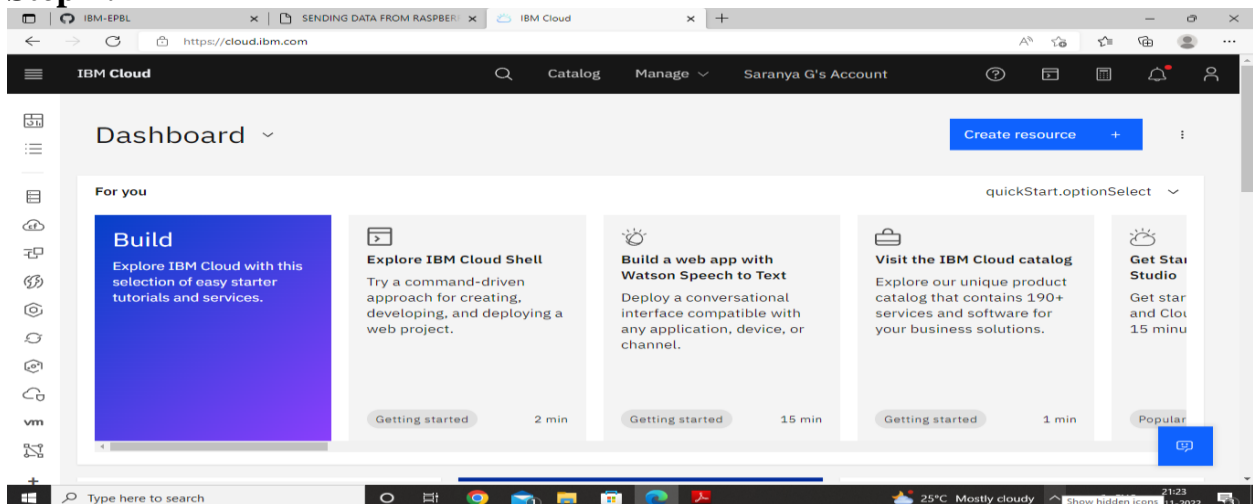
Create And Configure IBM Cloud Services

DATE	OCTOBER 2022
TEAM ID	PNT2022TMID38325
PROJECT NAME	Gas Leakage Monitoring & Alerting System For Industries

Step 1: Login the IBM Cloud



Step 2:



Step 3: Search IOT

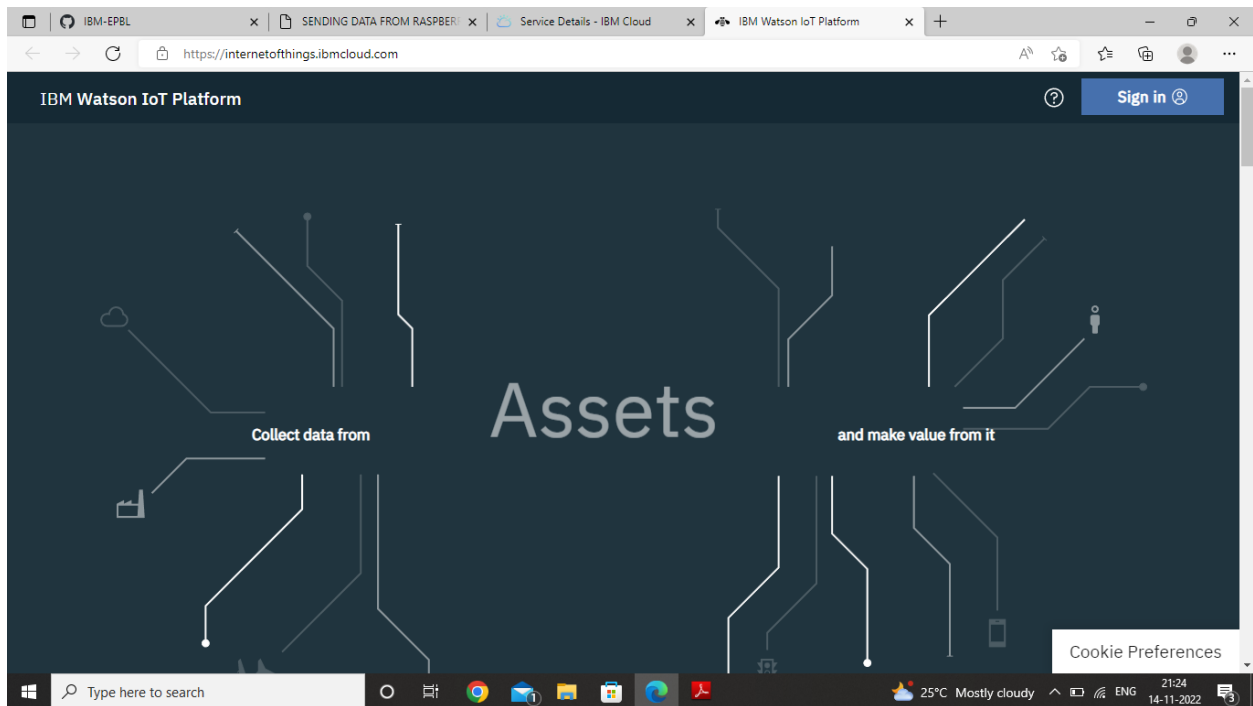
The screenshot shows the IBM Cloud 'Resource list' page. The browser address bar displays 'https://cloud.ibm.com/resources'. The page header includes the IBM Cloud logo, search, catalog, manage, and user account 'Saranya G's Account'. A sidebar on the left contains various service icons. The main content area features a 'Resource list' table with columns: Name, Group, Location, Product, Status, and Tags. A search filter 'inter' is applied to the Name column. The results show one item: 'Internet of Things Platform-kq' under the 'Default' group, located in 'London', with status 'Active'. A 'Create resource' button is in the top right. The Windows taskbar at the bottom shows the date as 14-11-2022.

Name	Group	Location	Product	Status	Tags
Internet of Things Platform-kq	Default	London	Internet of Things PL...	Active	-

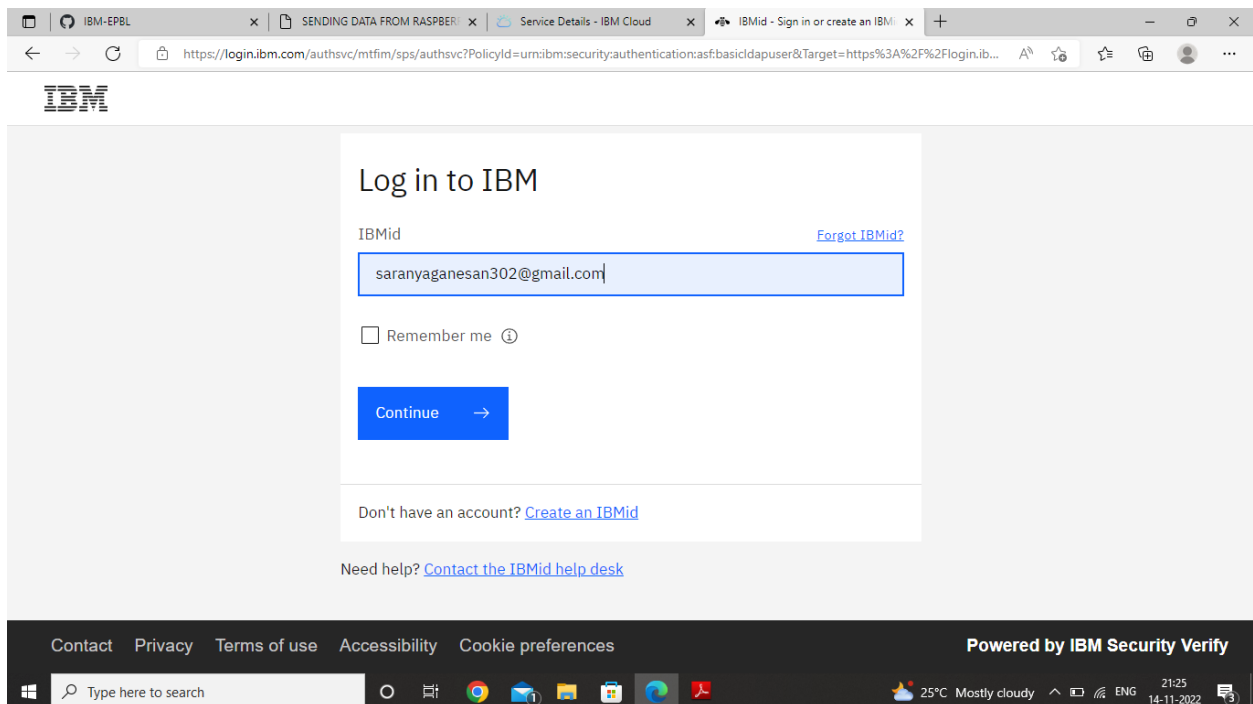
Step 4: Click the Launch button

The screenshot shows the 'Service Details' page for the 'Internet of Things Platform-kq'. The browser address bar displays a long URL. The page header is consistent with the previous screenshot. The main content area has a left sidebar with 'Manage', 'Plan', and 'Connections' options. The main panel features a large graphic of a central square with four U-shaped connectors. To the right of the graphic, the text reads: '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.' Below this text are two buttons: 'Launch' (in blue) and 'Docs' (in light gray). At the bottom, there is a section titled 'Ready for the next level?' with the link 'IBM Watson IoT Platform Journey'. The Windows taskbar at the bottom shows the date as 14-11-2022.

Step 5: Sign in IBM Watson



Step 6:



Step 7:

IBM

Enter code sent to your email

For added security, we sent a 6-digit code to **sar*****@gmail.com**.
Please enter the code below within 20 minutes

Enter email code

3503-

Verify

[Didn't receive the email?](#)
Check your spam filter for an email from

Step 8: Login the IBM Watson

IBM Watson IoT Platform

Collect data from **Equipment** and make value from it

[Learn More](#)

[Cookie Preferences](#)

Step 9:

IBM Watson IoT Platform

Navigation: Browse | Action | Device Types | Interfaces

Buttons: All Devices | Diagnose

Text: This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

Device Simulator: ☐

Device ID	Status	Device Type	Class ID
12345	Disconnected	NodeMCU	Device

Step 10 : Select Add Device

IBM Watson IoT Platform

Navigation: Browse | Action | Device Types | Interfaces

Add Device

Progress: Identity | Device Information | Security | Summary

Select a device type for the device that you are adding and give the device a unique ID.

Device Type:

Device ID:

Step :11

The screenshot shows the IBM Watson IoT Platform interface. The top navigation bar includes 'Browse', 'Action', 'Device Types' (selected), and 'Interfaces'. A sidebar on the left contains various icons. The main content area is titled 'Device Types' and includes a table listing defined device types.

This table lists all device types that are defined. You can filter the list and search for the name and description. You can modify and configure existing device types and add new device types.

<input type="checkbox"/>	Name	Description	Number of Devices	Class ID	Date Added
> <input type="checkbox"/>	NodeMCU		2	Device	Nov 4, 2022 1:27 PM
> <input type="checkbox"/>	my_device	Device	1	Device	Nov 8, 2022 2:19 PM

Items per page 10 | 1-2 of 2 items

1 of 1 page

Step 12:

The screenshot shows the 'Add Type' dialog box in the IBM Watson IoT Platform. The dialog has two tabs: 'Identity' (selected) and 'Device Information'. The 'Identity' tab contains fields for 'Type', 'Name', and 'Description'.

Device types group devices that have similar characteristics, such as model number, firmware version, or location. Give the device type a unique name and a description that identifies characteristics that are shared by devices of this type.

Type: Or

Name:
The device type name is used to identify the device type uniquely and uses a restricted set of characters to make it suitable for API use.

Description:

Step :13 Create a Device

The screenshot shows the 'Add Type' dialog box in the IBM Watson IoT Platform. The dialog has a progress bar with two steps: 'Identity' (completed) and 'Device Information' (current step). Below the progress bar, a message states: 'These attributes will be used as a template for new devices that are assigned this device type'. There is an 'Edit Metadata' link. The form contains two columns of input fields:

Field	Value
Serial Number	Enter Serial Number
Model	Enter Model
Description	Enter Description
Hardware Version	Enter Hardware Version
Manufacturer	Enter Manufacturer
Device Class	Enter Device Class
Firmware Version	Enter Firmware Version
Descriptive Location	Enter Descriptive Location

At the bottom right of the dialog are 'Back' and 'Finish' buttons.

Step :14

The screenshot shows the 'Add Device' dialog box in the IBM Watson IoT Platform. The dialog has a progress bar with four steps: 'Identity' (completed), 'Device Information' (completed), 'Security' (completed), and 'Summary' (current step). Below the progress bar, a message states: 'Verify that the following information is correct then select Finish'. The form displays the following information:

Field	Value
Device Type	Saranya
Device ID	12345
Security Token	To be generated

There is a 'View Metadata' button. At the bottom right of the dialog are 'Back' and 'Finish' buttons.

Step :15

The screenshot shows the IBM Watson IoT Platform interface. The browser tabs include 'IBM-EPBL', 'SENDING DATA FROM RASPB...', 'Service Details - IBM Cloud', and 'IBM Watson IoT Platform'. The URL is 'https://e06cdh.internetofthings.ibmcloud.com/dashboard/devices/drilldown/Saranya:12345?returnTo=/devices/browse'. The page title is 'Device Drilldown - 12345'. On the left, a sidebar lists navigation options: Device Credentials, Connection Information, Recent Events, State, Device Information, Metadata, Diagnostics, Connection Logs, and Device Actions. The main content area is titled 'Device Credentials' and contains the following information:

Organization ID	e06cdh
Device Type	Saranya
Device ID	12345
Authentication Method	use-token-auth
Authentication Token	7wvAmpy51FE2-vTAXP

Below the table, a warning message states: 'Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the device to generate a new authentication token.' A link 'Find out how to add these credentials to your device' is provided.

Step :16 Complete the IBM Watson platform

The screenshot shows the IBM Watson IoT Platform interface with the 'Recent Events' tab selected. The browser tabs include 'IBM', 'IoT-88-2A4E (Afternoon Ses...', 'Service Details - IBM Cloud', 'IBM Watson IoT Platform', and 'connect a raspberry pi - Se...'. The URL is 'https://e06cdh.internetofthings.ibmcloud.com/dashboard/devices/browse'. The page title is 'IBM Watson IoT Platform'. The 'Recent Events' tab is active, showing a table of events:

Event	Value	Format	Last Received
event_1	{\"randomNumber\":80,\"temp\":94,\"hum\":74}	json	4 minutes ago
event_1	{\"randomNumber\":76,\"temp\":103,\"hum\":65}	json	5 minutes ago
event_1	{\"randomNumber\":9,\"temp\":91,\"hum\":69}	json	6 minutes ago
event_1	{\"randomNumber\":53,\"temp\":106,\"hum\":89}	json	7 minutes ago

At the bottom, a status bar indicates '1 Simulation running'.