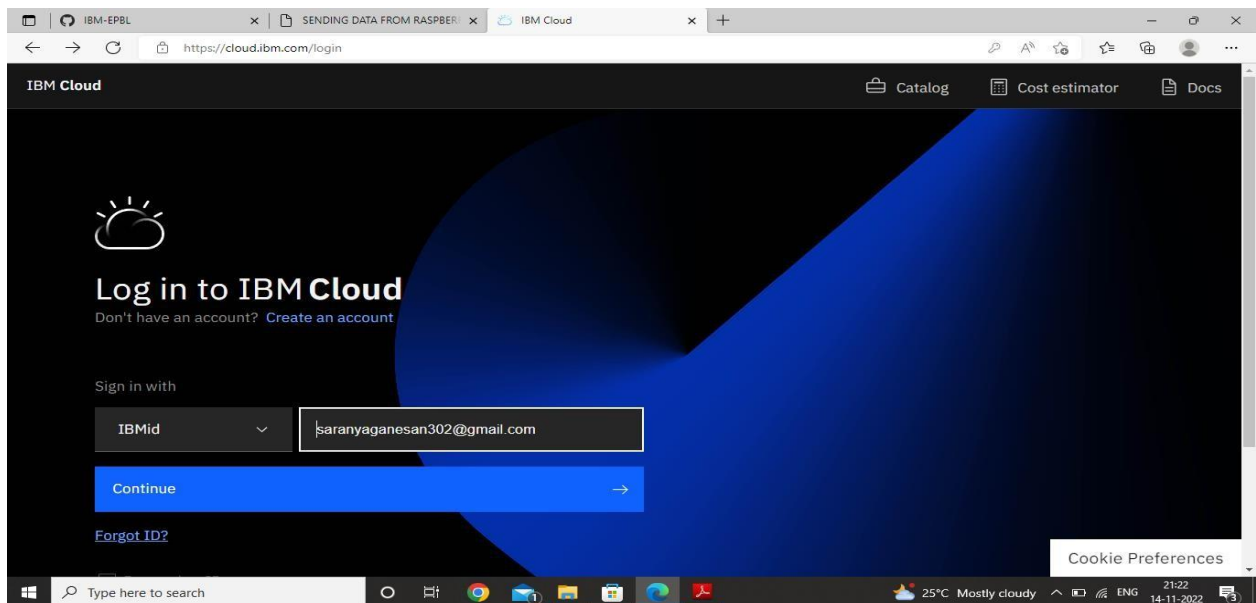


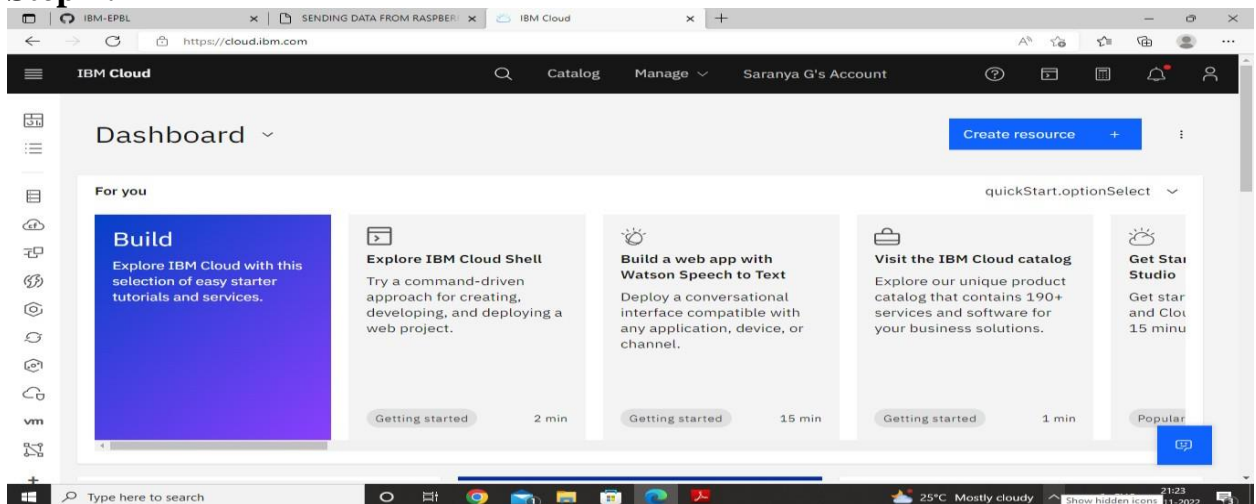
Create And Configure IBM Cloud Services

DATE	OCTOBER 2022
TEAM ID	PNT2022TMID38324
PROJECT NAME	Gas Leakage Monitoring & Alerting System For Industries

Step 1: Login the IBM Cloud



Step 2:



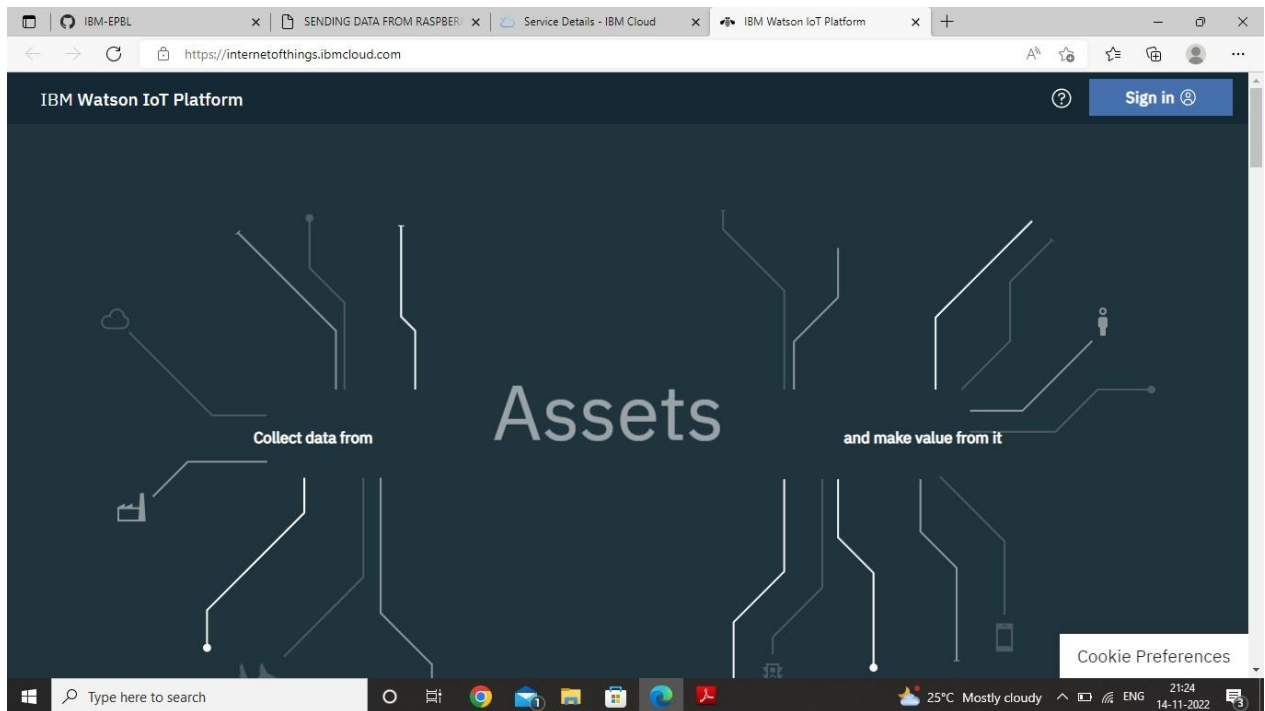
Step 3: Search IOT

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, a search bar, and navigation links for 'Catalog', 'Manage', and 'Saranya G's Account'. A 'Create resource' button is visible in the top right. The main content area features a table with columns: Name, Group, Location, Product, Status, and Tags. A search filter 'inter' is applied to the 'Name' column. The table lists one resource: 'Internet of Things Platform-kq' under the 'Default' group, located in 'London', with the product 'Internet of Things PL...' and status 'Active'. A sidebar on the left contains icons for various services, and a Windows taskbar is visible at the bottom.

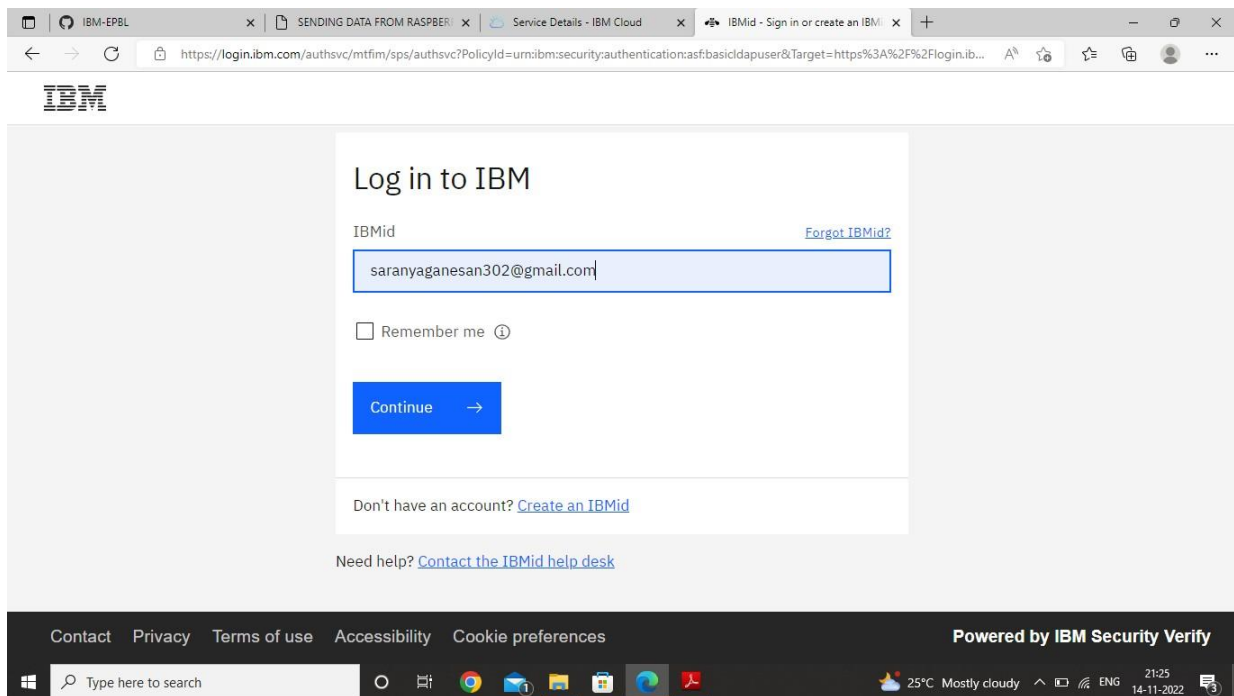
Step 4: Click the Launch button

The screenshot shows the 'Service Details' page for the 'Internet of Things Platform-kq' resource. The browser address bar displays a long URL. The page header is consistent with the previous screenshot. The main content area features a large graphic of a microchip with connected lines, representing IoT. 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' and 'Docs'. A sidebar on the left contains links for 'Manage', 'Plan', and 'Connections'. At the bottom, there is a section titled 'Ready for the next level?' with the link 'IBM Watson IoT Platform Journey'. A Windows taskbar is visible at the bottom.

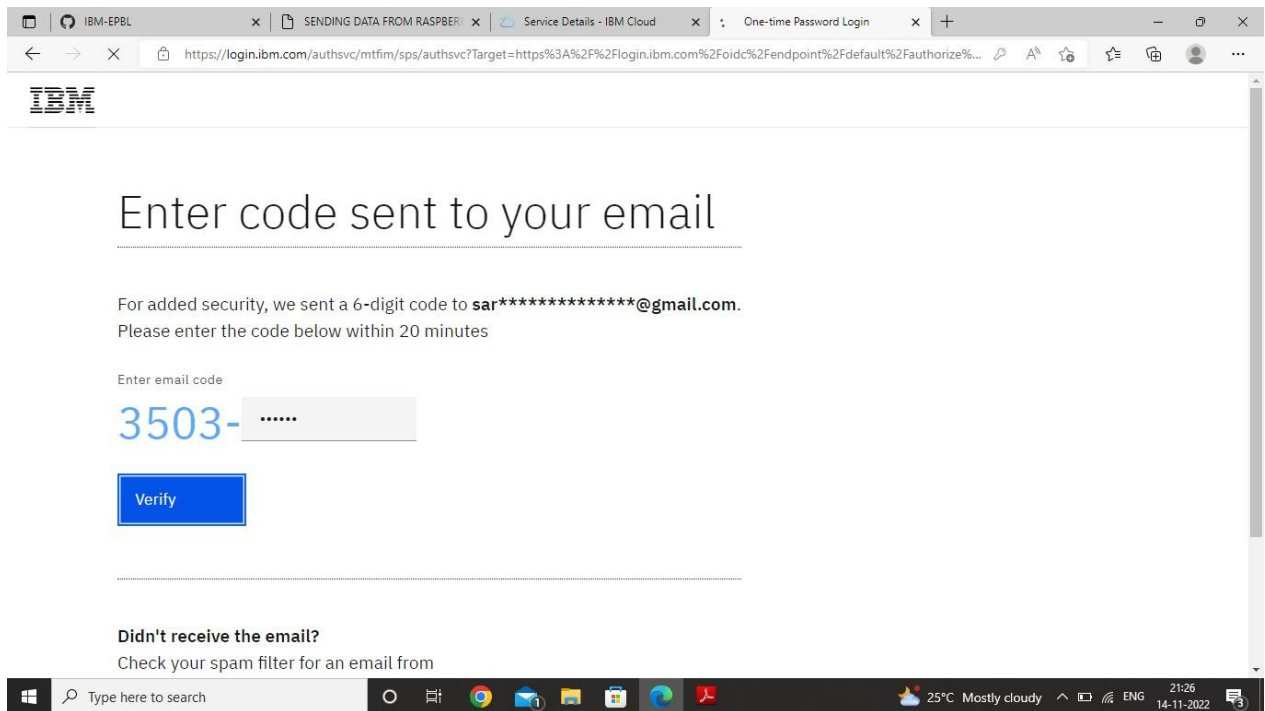
Step 5: Sign in IBM Watson



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

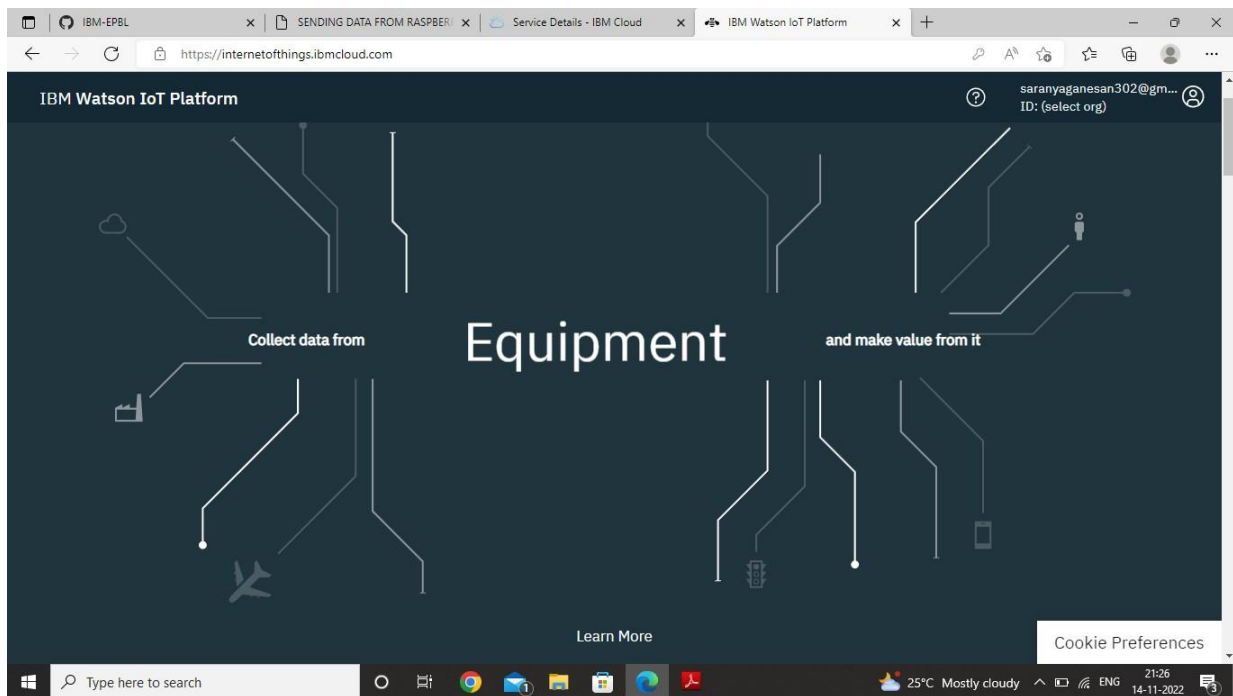
Enter email code

3503-

Verify

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

Step 8: Login the IBM Watson



Step 9:

The screenshot shows the IBM Watson IoT Platform interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A sidebar on the left contains various icons. The main content area is titled 'Browse Devices' and features a table of devices. The table has columns for 'Device ID', 'Status', 'Device Type', and 'Class ID'. A single device is listed with ID '12345', status 'Disconnected', type 'NodeMCU', and class 'Device'. Above the table, there is a search bar and a 'Device Simulator' toggle. The bottom of the screen shows a Windows taskbar with the date and time '21:27 14-11-2022'.

Device ID	Status	Device Type	Class ID
12345	Disconnected	NodeMCU	Device

Step 10 : Select Add Device

The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform. The wizard has four steps: 'Identity', 'Device Information', 'Security', and 'Summary'. The 'Identity' step is currently selected. Below the steps, there is a form with two fields: 'Device Type' and 'Device ID'. The 'Device Type' field has a dropdown menu with the text 'Select or create a device type...'. The 'Device ID' field has a text input with the placeholder 'Enter Device ID'. The bottom of the screen shows a Windows taskbar with the date and time '21:28 14-11-2022'.

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 search bar and a table of device types.

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.

Search: Type the name to search ...

<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'.

Add Type

Identity | Device Information

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:

Description:

Cancel Next

Step :13 Create a Device

The screenshot shows the 'Add Type' form in the IBM Watson IoT Platform. The form is titled 'Add Type' and 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 form are 'Back' and 'Finish' buttons.

Step :14

The screenshot shows the 'Add Device' form in the IBM Watson IoT Platform. The form is titled 'Add Device' and 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 form are 'Back' and 'Finish' buttons.

Step :15

The screenshot shows the IBM Watson IoT Platform interface. The browser address bar displays the URL: `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 menu lists 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 includes a sub-header: "You registered your device to the organization. Add these credentials to the device to connect it to the platform. After the device is connected, you can navigate to view connection and event details." Below this, a table lists the device's credentials:

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

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 page displays a table of recent events received from the device. The table has four columns: Event, Value, Format, and Last Received. The events are listed as follows:

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 of the page, a status bar indicates "1 Simulation running".