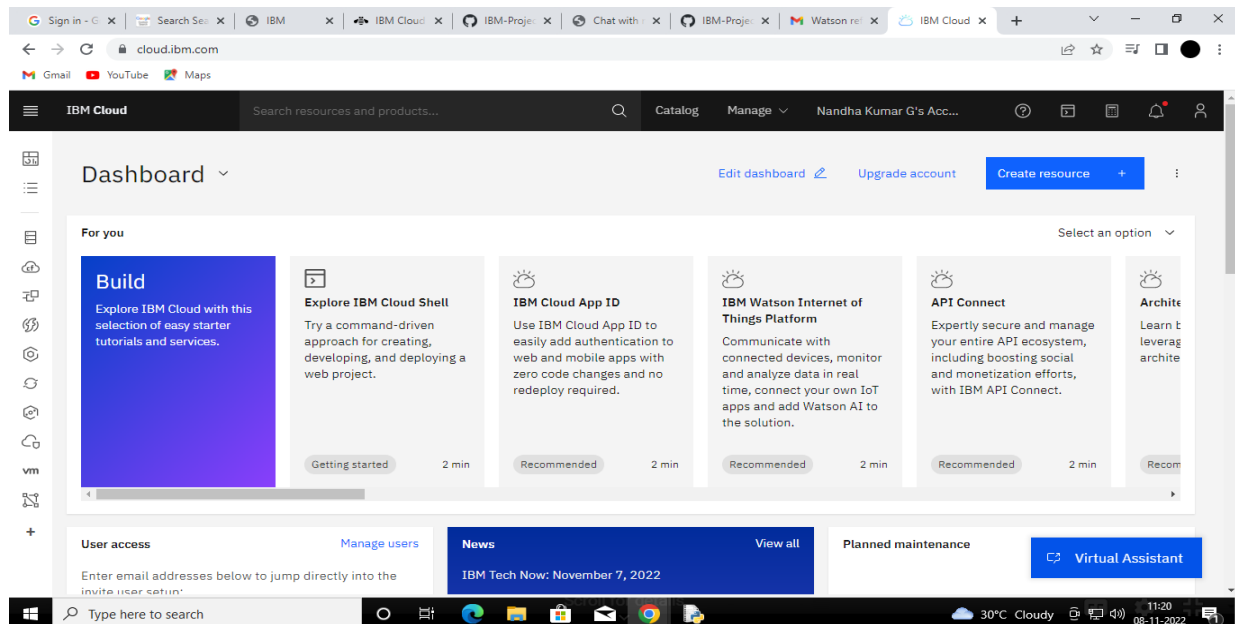


CREATE AND CONFIGURE IBM CLOUD SERVICES

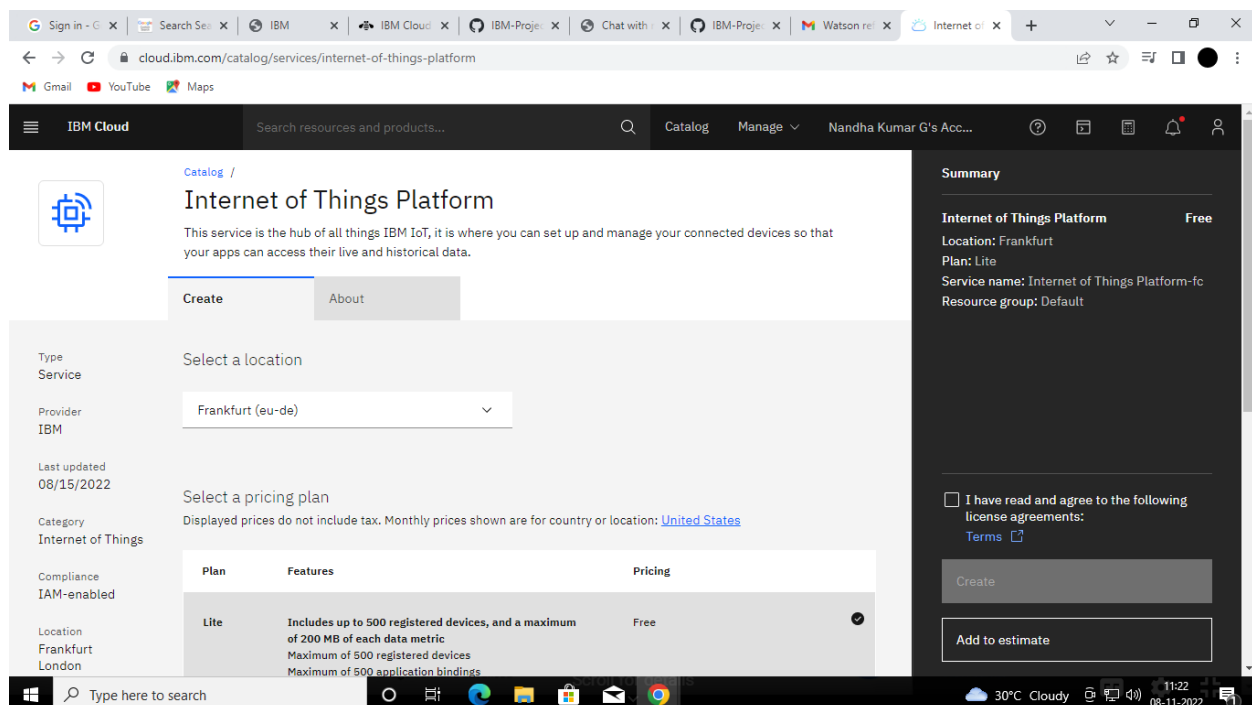
TEAM ID	PNT2022TMID48692
PROJECT TITLE	REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM

CREATE IBM WATSON IOT PLATFORM AND DEVICE

STEP 1:



STEP 2:



STEP 3:

The screenshot shows the IBM Cloud console interface. The browser address bar displays a URL from cloud.ibm.com. The page title is "IOT Platform- Nandha" with a status of "Active". A sidebar on the left contains links for "Manage", "Plan", and "Connections". The main content area features a large graphic of a central square with four circular nodes connected by lines. To the right of this 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". Further down, a section titled "Ready for the next level?" introduces the "IBM Watson IoT Platform Journey". This journey is represented by a horizontal timeline with three stages: "Lite" (marked with a checkmark), "Non-Production", and "Production" (both marked with empty circles). A blue chat icon is visible in the bottom right corner of the main content area.

STEP 4:

The screenshot shows the IBM Watson IoT Platform landing page. The browser address bar displays the URL internetofthings.ibmcloud.com. The page has a dark blue background with a central graphic of a car. The text "Cars" is prominently displayed in the center. To the left of the car, the text "Collect data from" is shown above a graphic of a factory and a plane. To the right of the car, the text "and make value from it" is shown above a graphic of a person and a smartphone. At the bottom center, there is a "Learn More" link. In the top right corner, there is a "Sign in" button. A "Cookie Preferences" button is located in the bottom right corner.

STEP 5:

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 with columns: Device ID, Status, Device Type, Class ID, and Date Added. A search bar labeled 'Search by Device ID' is positioned above the table. A 'Device Simulator' toggle is located to the right of the search bar. The bottom of the screen displays a Windows taskbar with the search bar and several application icons.

IBM Watson IoT Platform

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ID: jj64y3

Browse Action Device Types Interfaces

Add Device

Browse Devices

All Devices Diagnose

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	Date Added
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Type here to search

STEP 6:

The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform. The wizard consists of four steps: Identity, Device Information, Security, and Summary. The 'Identity' step is currently active, showing a 'Device Type' dropdown menu and a 'Device ID' text input field. The bottom of the screen displays a Windows taskbar with the search bar and several application icons.

IBM Watson IoT Platform

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Browse Action Device Types Interfaces

Add Device

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: Select or create a device type...

Device ID: Enter Device ID

Cancel Next

Type here to search

STEP 7:

IBM Watson IoT Platform

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Browse Action Device Types Interfaces

Add Device

Identity Device Information Security Summary

There are two options for selecting a device authentication token.

Auto-generated authentication token (default)

Allow the service to generate an authentication token for you. Tokens are 18 characters and contain a mix of alphanumeric characters and symbols. The token is returned to you at the end of the device registration process.

Self-provided authentication token

Provide your own authentication token for this device. The token must be between 8 and 36 characters and contain a mix of lowercase and uppercase letters, numbers, and symbols, which can include hyphens, underscores, and periods. Do not use repeated characters, dictionary words, user names, or other predefined sequences.

Authentication Token

Make a note of the generated token. Lost authentication tokens cannot be recovered. Tokens are encrypted before being stored.

Authentication token are encrypted before we store them.

STEP 8:

IBM Watson IoT Platform

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Browse Action Device Types Interfaces

Add Device

Identity Device Information Security Summary

Verify that the following information is correct then select Finish

Device Type
NodeMCU

Device ID
12345

[View Metadata](#)

Security Token
123456789

STEP 9:

The screenshot shows the IBM Watson IoT Platform interface. The browser address bar displays the URL: `jj64y3.internetofthings.ibmcloud.com/dashboard/devices/drilldown/NodeMCU:12345?returnTo=/devices/browse`. The page title is "Device Drilldown - 12345". On the left, a sidebar menu lists various options: Device Credentials (selected), 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 warning message: "Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the device to generate a new authentication token." Below this, a table lists the device's credentials:

Organization ID	jj64y3
Device Type	NodeMCU
Device ID	12345
Authentication Method	use-token-auth
Authentication Token	123456789

STEP 10:

The screenshot shows the IBM Watson IoT Platform interface for the "Browse Devices" page. The browser address bar displays the URL: `jj64y3.internetofthings.ibmcloud.com/dashboard/devices/browse`. The page title is "Browse Devices". On the left, a sidebar menu lists various options: Browse (selected), Action, Device Types, and Interfaces. The main content area is titled "Browse Devices" and includes a table showing a summary of all devices that have been added. The table has columns for Device ID, Status, Device Type, Class ID, and Date Added. The table contains one row for device 12345, which is in a "Disconnected" state. Below the table, there is a pagination bar showing "1 of 1 page".

Device ID	Status	Device Type	Class ID	Date Added
12345	Disconnected	NodeMCU	Device	Nov 8, 2022 11:39 AM