

Real-Time River Water Quality Monitoring and Control Systems

- **IBM Watson IoT platform acts as the mediator to connect the web application to IoT device, so create the IBM Watson IoT platform.**
- **In order to connect the IoT device to the IBM cloud, create a device in the IBM Watson IoT platform and get the device credentials.**

Date	29/10/2022
Team ID	PNT2022TMID52874
Project Name	Real-Time Water Quality Monitoring And Control System

IBM LOGIN:

The screenshot displays the IBM Cloud console interface. At the top, the breadcrumb navigation shows 'Resource list / Internet of Things Platform-jx'. The main content area features a 'Let's get started with IBM Watson IoT Platform' section with a 'Launch' button. Below this, the 'IBM Watson IoT Platform Journey' is shown with three stages: 'Lite', 'Non-Production', and 'Production'. The 'Lite' stage is currently selected and marked as complete. The 'Non-Production' and 'Production' stages are marked as incomplete. The 'Lite' stage description states: 'The Lite service plan provides a lightweight development environment to get you started with the connectivity capabilities of Watson IoT Platform.' The 'Non-Production' stage description states: '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.' The 'Production' stage description states: 'The Production service is a fully managed SaaS offering that enables you to manage and analyze enterprise IoT data.' The 'Lite' stage includes the following details: 'Free', '200 MB data-transfer limit', '500 application bindings limit', and '500 registered devices limit'. The 'Non-Production' stage includes: 'Starts at \$500 per month', 'Capacity limit based on device type', and 'Optional Analytics Service and Blockchain Service add-ons'. The 'Production' stage includes: 'Includes IBM Service & Support', 'Pricing based on number of devices per device type', and 'Optional Analytics Service and Blockchain Service add-ons'. At the bottom of the journey section, there is a link to 'Continue your journey on IBM Marketplace'.

BLUEMIX ACCOUNT:

IBM Watson IoT Platform

Browse Action Device Types Interfaces

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 ID	Status	Device Type	Class ID	Date Added	Descriptive Location	Added By	Device Class
> weather_today	Connected	weather_device	Device	Nov 15, 2022 8:03 PM		2004207ec@cit.edu.in	

Items per page 50 | 1-1 of 1 item

1 of 1 page

1 Simulation running

DEVICE INFORMATION:

IBM Watson IoT Platform

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	Descriptive Location	Added By	Device Class
weather_today	Connected	weather_device	Device	Nov 15, 2022 8:03 PM		2004207ec@cit.edu.in	

Identity Device Information Recent Events State Logs

Device ID: weather_today
Device Type: weather_device
Date Added: Nov 15, 2022 8:03 PM
Added By: 2004207ec@cit.edu.in
Connection Status: Connected
Connection Time: Nov 17, 2022 2:49 PM
Client Address: 103.130.89.139 SecureToken

Items per page 50 | 1-1 of 1 item

1 Simulation running

DEVICE HISTORY:

IBM Watson IoT Platform

Browse Action Device Types Interfaces

Add Device

weather_today Connected weather_device Device Nov 15, 2022 8:03 PM 2004207ec@cit.edu.in

Identity Device Information Recent Events State Logs

Diagnostic Logs

A list of device errors and timestamps detailing when the error occurred.

Severity	Message	Timestamp
----------	---------	-----------

No logs are available.

Connection Logs

A list of the connection events reported for this device.

Message	Timestamp
Closed connection. The client ID was reused.	Nov 17, 2022 2:49 PM
Closed connection. The client ID was reused.	Nov 17, 2022 2:49 PM
Token auth succeeded: ClientID=d:f5r12v:weather_device:weathe...	Nov 17, 2022 2:49 PM
Token auth succeeded: ClientID=d:f5r12v:weather_device:weathe...	Nov 17, 2022 2:33 PM
Closed connection. The connection was closed by the client or net...	Nov 17, 2022 2:33 PM
Closed connection. The connection was closed by the client or net...	Nov 17, 2022 2:33 PM
Token auth succeeded: ClientID=d:f5r12v:weather_device:weathe...	Nov 17, 2022 2:07 PM
Token auth succeeded: ClientID=d:f5r12v:weather_device:weathe...	Nov 17, 2022 2:06 PM
Token auth succeeded: ClientID=d:f5r12v:weather_device:weathe...	Nov 17, 2022 2:06 PM
Closed connection. The client ID was reused.	Nov 17, 2022 2:06 PM

Items per page 50 | 1-1 of 1 item

1 Simulation running

