

# IBM WATSON IOT PLATFORM AND DEVICE

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PROJECT NAME	INDUSTRY - SPECIFIC INTELLIGENT FIRE MANAGEMENT SYSTEM
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## STEP 1: CREATING IBM CLOUD AND USING ITS SERVICE

The screenshot shows the IBM Cloud dashboard. At the top, there's a navigation bar with 'IBM Cloud', a search bar, and user information. Below the navigation is a 'Dashboard' section with a 'For you' grid. The first item in the grid is a large blue box titled 'Build' with the subtext 'Explore IBM Cloud with this selection of easy starter tutorials and services.' It includes a 'Getting started' button and a '15 min' duration. Other items in the grid include 'Build a web app with Watson Speech to Text' (15 min), 'Get Started with Watson Studio' (2 hr), 'Build a Virtual Private Cloud (VPC)' (7 min), and 'Learn about IAM Roles' (5 min). Below the grid, there are sections for 'User access', 'News' (with a 'View all' button), and 'Planned maintenance'. A sidebar on the left lists various cloud services like Compute, Storage, and Network.

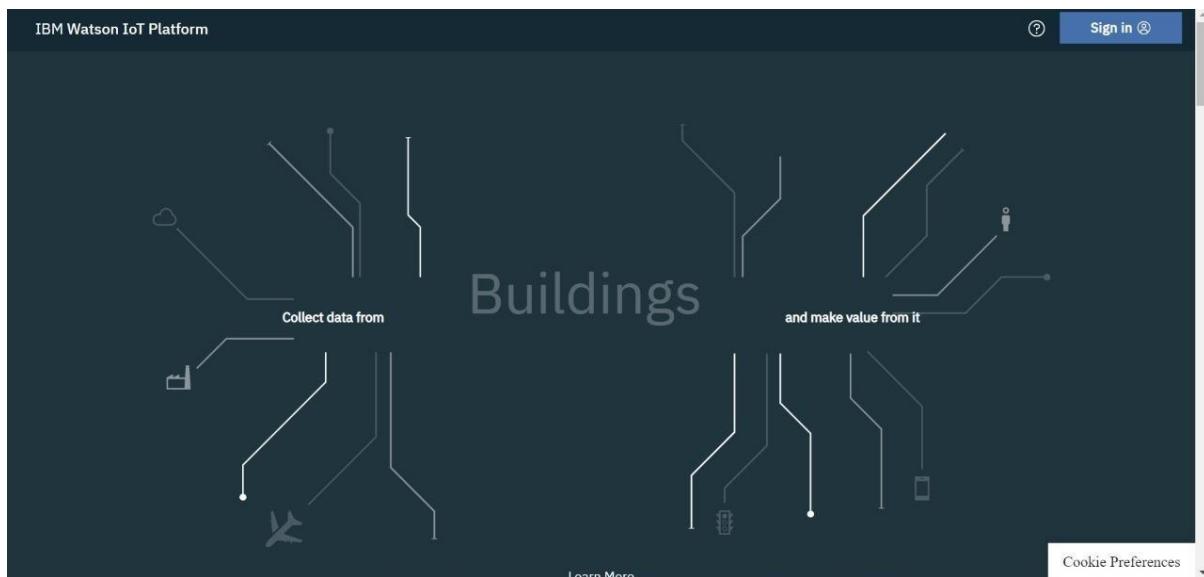
## STEP 2: CONFIGURE THE IBM CLOUD SERVICE AND CREATING IOT PLATFORM

The screenshot shows the IBM Cloud Catalog interface. On the left, there's a sidebar with service details: Type: Service, Provider: IBM, Last updated: 08/15/2022, Category: Internet of Things, Compliance: IAM-enabled, and Location: Frankfurt (eu-de). The main area displays the "Internet of Things Platform" service. It has tabs for "Create" and "About". Under "Create", there are fields for "Select a location" (set to Frankfurt (eu-de)) and "Select a pricing plan". A table shows the "Lite" plan, which includes up to 500 registered devices and a maximum of 200 MB of each data metric. The "Pricing" column indicates it's "Free". To the right, a "Summary" panel shows the service name as "Internet of Things Platform", location as "Frankfurt", and plan as "Lite". A note states "Existing Lite plan instance" and "You can have only 1 Lite plan instance of this service per resource group." There's also a checkbox for accepting license agreements.

## STEP 3: IBM WATSON IOT PLATFORM AS THE MEDIATOR TO CONNECT THE WEB APPLICATION TO IOT DEVICES

The screenshot shows the "Internet of Things Platform-3b" instance in the IBM Watson IoT Platform. The left sidebar has a "Manage" section with "Plan" and "Connections" options. The main area features a central graphic of a central node connected to various peripheral icons like a lightbulb, a gear, and a cloud. Below this is a section titled "Let's get started with IBM Watson IoT Platform" with a "Launch" button and "Docs" link. At the bottom, there's a "Ready for the next level?" section with a "Lite" status indicator and a "Non-Production" status indicator. A blue "Next" button is located in the bottom right corner.

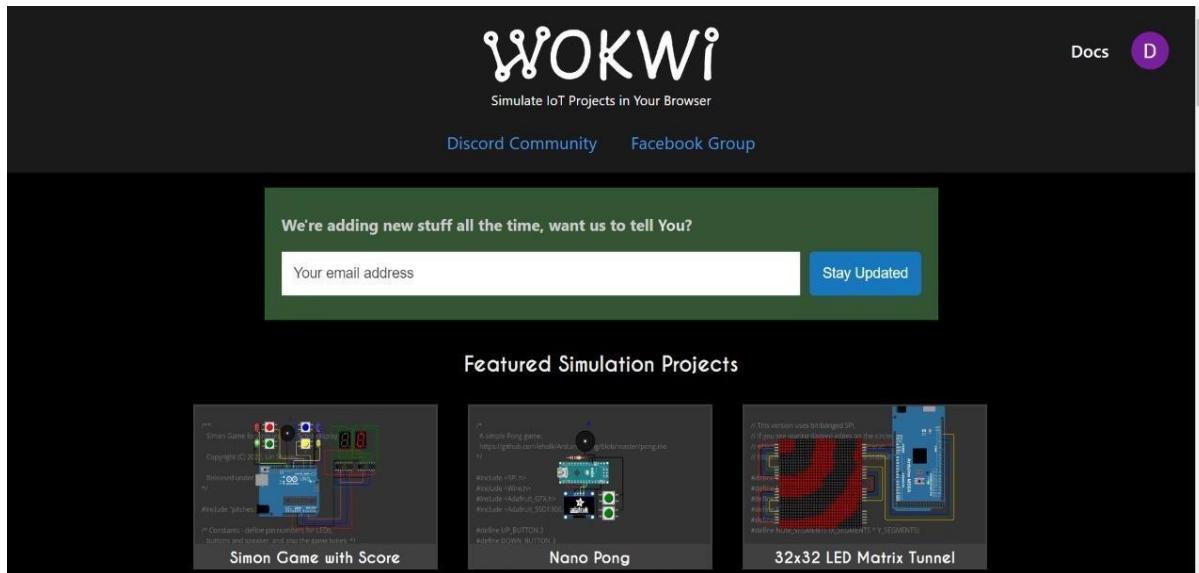
## STEP 4: IBM WATSON IOT PLATFORM IS CREATED



## STEP 5: IN ORDER TO CONNECT THE IOT DEVICE TO THE IBM CLOUD

The image shows the "Device Management" section of the IBM Watson IoT Platform. On the left is a vertical sidebar with icons for Home, Devices, Rules, Events, Metrics, and Settings. The main area has a header with "IBM Watson IoT Platform", a user profile, and a "Add Device" button. Below is a table showing one device entry: BME280\_Sensor (Status: Disconnected, Device Type: ESP32\_Controller, Class ID: Device, Date Added: Oct 30, 2022 9:30 PM). A detailed view of the device is shown below the table, with tabs for Identity, Device Information, Recent Events, State, and Logs. The Identity tab displays the following information: Device ID (BME280\_Sensor), Device Type (ESP32\_Controller), Date Added (Oct 30, 2022 9:30 PM), Added By (811519106040@smartinternz.com), and Connection Status (Disconnected). At the bottom are pagination controls for "Items per page" (50), "1 of 1 page", and navigation arrows.

## STEP 6: SIGN IN THE WOKWI ACCOUNT



## STEP 7: SIMULATION

