

# CREATE AND CONFIGURE IBM CLOUD SERVICES

Team ID	PNT2022TMID21245
Project Name	INDUSTRY-SPECIFIC INTELLIGENT FIRE MANAGEMENT SYSTEM

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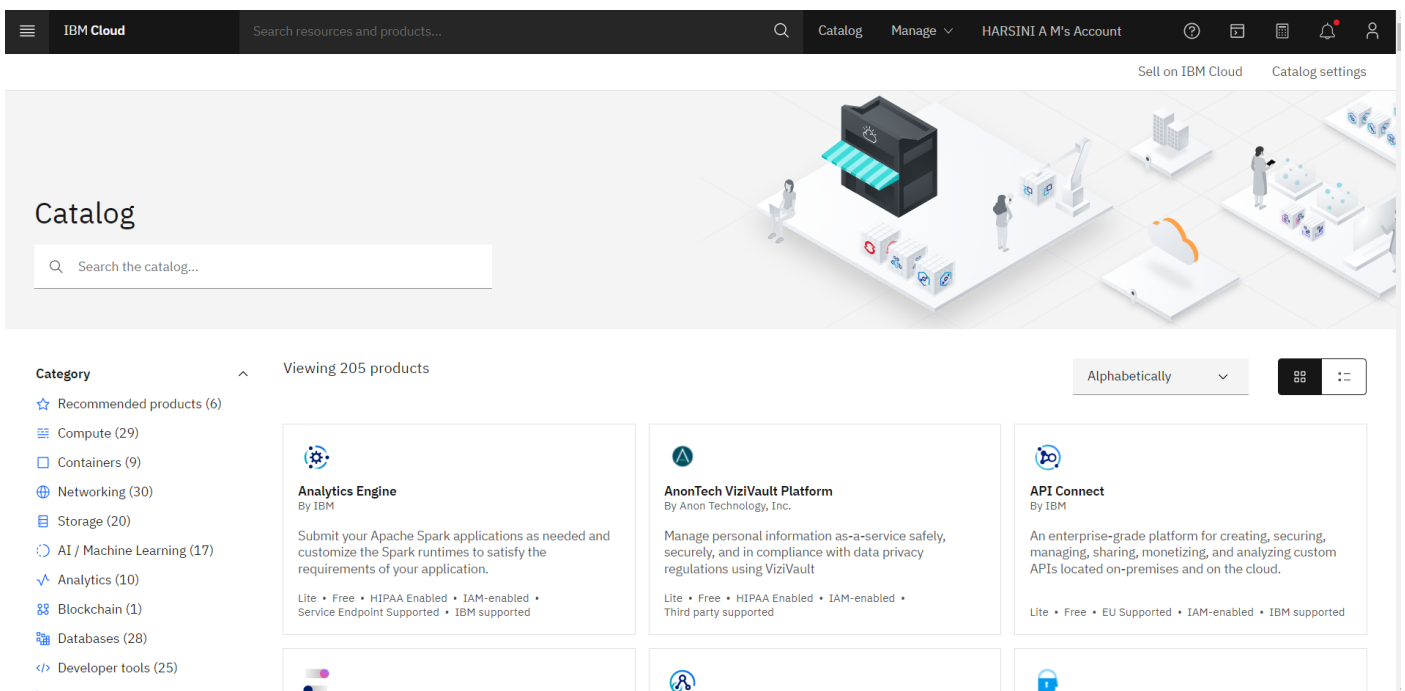
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**Team member :** Madhumitha P.R

## 1. CREATE IBM WATSON IOT PLATFORM AND DEVICE

### ❖ IBM CATALOG PAGE



The screenshot displays the IBM Cloud Catalog interface. At the top, there's a navigation bar with 'IBM Cloud' and a search bar. Below this, the 'Catalog' section is visible, featuring a search bar and a grid of product cards. The left sidebar lists various categories: Recommended products (6), Compute (29), Containers (9), Networking (30), Storage (20), AI / Machine Learning (17), Analytics (10), Blockchain (1), Databases (28), Developer tools (25), and Logging and monitoring (3). The product cards shown are:

- Analytics Engine** (By IBM): Submit your Apache Spark applications as needed and customize the Spark runtimes to satisfy the requirements of your application. Features: Lite • Free • HIPAA Enabled • IAM-enabled • Service Endpoint Supported • IBM supported.
- AnonTech ViziVault Platform** (By Anon Technology, Inc.): Manage personal information as-a-service safely, securely, and in compliance with data privacy regulations using ViziVault. Features: Lite • Free • HIPAA Enabled • IAM-enabled • Third party supported.
- API Connect** (By IBM): An enterprise-grade platform for creating, securing, managing, sharing, monetizing, and analyzing custom APIs located on-premises and on the cloud. Features: Lite • Free • EU Supported • IAM-enabled • IBM supported.

### ❖ SELECTING INTERNET OF THINGS(IOT) IN RESOURCE LIST:

IBM Cloud

Search resources and products...

Q

Catalog

Manage

HARSINI A M's Account

Resource list

Create resource +

Name	Group	Location	Product	Status	Tags
Filter by name or IP address...	Filter by group or org...	Filter...	Q Filter...	Q Filter...	Filter...
AI / Machine Learning (0)					
Analytics (0)					
Blockchain (0)					
Databases (1+)					
Developer tools (1+)					
Logging and monitoring (0)					
Migration (0)					
Integration (0+)					
Internet of Things (1)					
Internet of Things Platform-9e	Default	London	Internet of Things Platform	Active	iot
Security (0)					
Mobile (0)					
Other (0+)					

## ❖ CLICKING ON LAUNCH IN IBM WATSON IOT PLATFORM

IBM Cloud

Search resources and products...

Q

Catalog

Manage

HARSINI A M's Account

Resource list /

Internet of Things Platform-9e

Active

iot

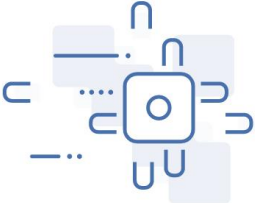
Details

Actions...

Manage

Plan

Connections



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.

Launch

Docs

Ready for the next level?

IBM Watson IoT Platform Journey

✓

Lite

The Lite service plan provides a lightweight development environment to get you started with the connectivity capabilities of Watson IoT Platform.

Free

Non-Production

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.

Starts at \$500 per month

Production

The Production service is a fully managed SaaS offering that enables you to manage and analyze enterprise IoT data.

Includes IBM Service & Support

## ❖ ADDING DEVICE WITH DEVICE ID-11


[illegible]

### ❖ CREATING NEW SIMULATION WITH EVENT NAMED: ‘eventflow’

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

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date
> <input type="checkbox"/>	11	 Disconnected	Sensor1	Device	Oct 2
Items per page 50   1-1 of 1 Item					

The screenshot displays the 'Simulations' section of the Azure IoT Hub portal. At the top, there's a header bar with a blue background containing a plus icon and the text '+ New Simulation'. Below this, the main area shows '1/50 Simulations Running'. A dropdown menu labeled 'Device Type' is set to 'Sensor1'. To the right of the device type are three icons: a wrench (labeled '1 Event'), a toggle switch (turned on), and a trash can. Below these, a row indicates '1 Device' with a small grid icon and the number '11'. At the bottom, there are two large blue buttons: 'Create Simulated Device' and 'Use Registered Device'. The status bar at the very bottom shows '1 event sent' on the left and '45 bytes sent' on the right.

Simulations		<a href="#">Import/Export simulation</a>	▼
1/50 Simulations Running		<a href="#">+ New Simulation</a>	
▼ Device Type Sensor1	1 Event		
1 Device			
11			
<a href="#">1 × Create Simulated Device</a>		<a href="#">Use Registered Device</a>	
<div>1 event sent</div> <div>45 bytes sent ▶</div>			



Device Type: Sensor1



Events 1

New event type +



Event type name

eventflow

Send



Schedule

1

Every Minute



Payload

Specify the event payload in the editor window or by uploading a [CSV file](#).

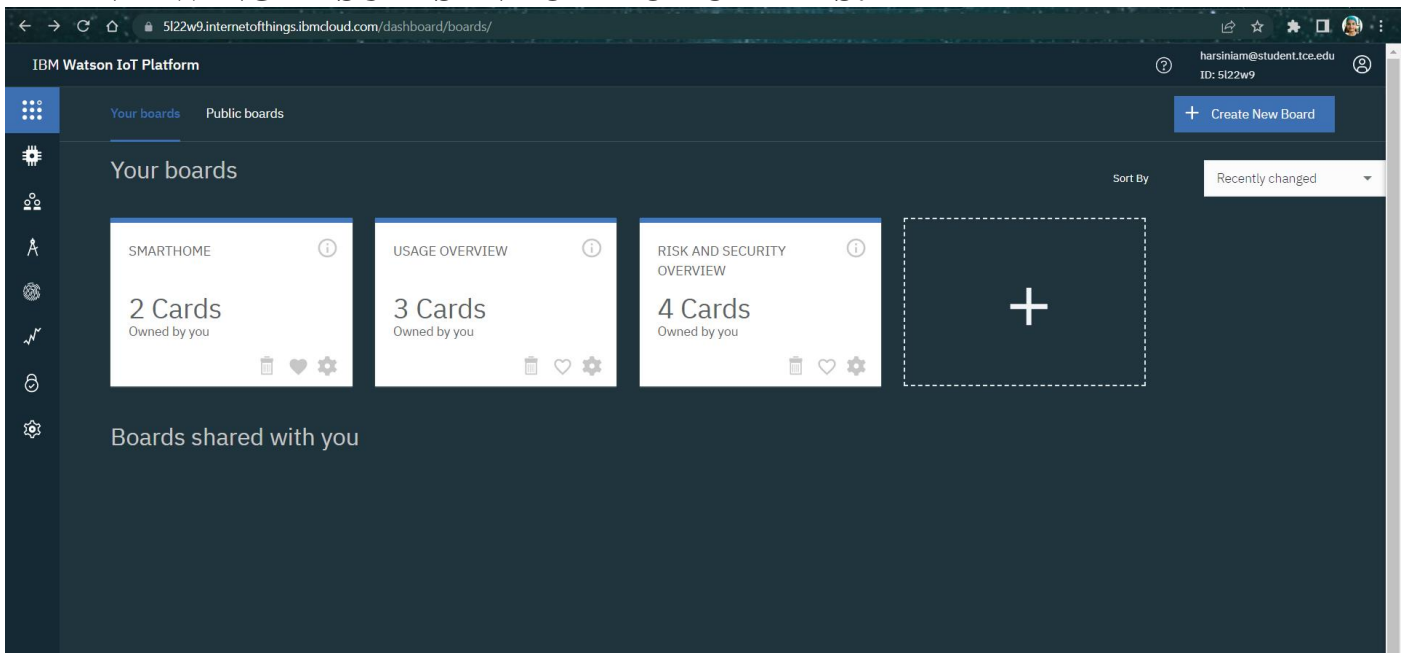
```
0 {  
1   "randomNumber": random(0, 100),  
2   "temp": random(90,110),  
3   "hum": random(60,100)  
4 }  
5
```

Upload a CSV file

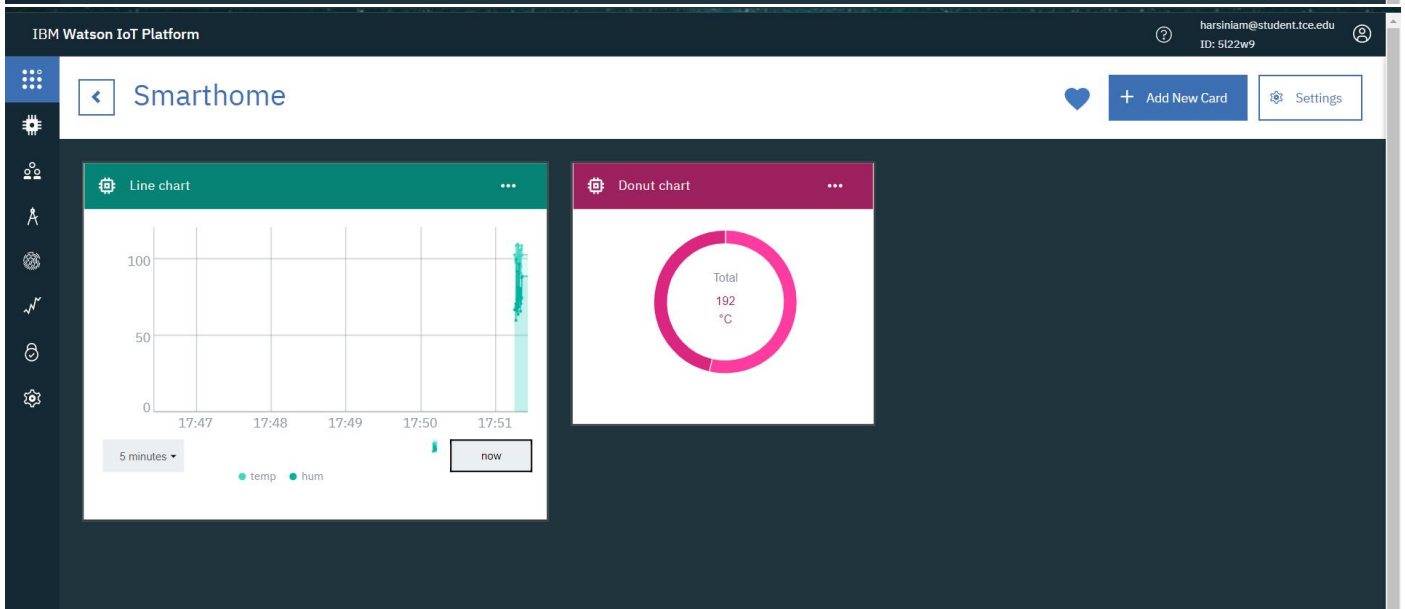
Cancel

Save

## ❖ VIEWING RESULTS IN FORM OF CHARTS:



The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes the platform name, user information (harsiniam@student.tce.edu, ID: 5122w9), and a 'Create New Board' button. The main section is titled 'Your boards' and displays a list of three boards: 'SMARTHOME' (2 Cards), 'USAGE OVERVIEW' (3 Cards), and 'RISK AND SECURITY OVERVIEW' (4 Cards). Each board card shows 'Owned by you' and icons for delete, favorite, and settings. A dashed box with a plus sign indicates where to click to add a new board. Below the list, there is a section for 'Boards shared with you'.



The screenshot shows the 'Smarthome' board in the IBM Watson IoT Platform. The board has a title bar with a back arrow, the name 'Smarthome', a heart icon, an 'Add New Card' button, and a 'Settings' button. The main content area displays two charts: a 'Line chart' and a 'Donut chart'. The 'Line chart' shows temperature (temp) and humidity (hum) data over time, with a y-axis ranging from 0 to 100 and an x-axis showing timestamps from 17:47 to 17:51. The 'Donut chart' shows a total value of 192 °C. The board also includes a '5 minutes' refresh interval and a 'now' button.