

Date	29 October 2022
Team ID	PNT2022TMID20566
Project Name	IOT ENABLED SMART FARMING APPLICATION
Maximum Marks	20 marks

US -1: Create the IBM Cloud services which are being used in this project.

The screenshot displays the IBM Cloud account settings interface. The main content area is titled 'Account settings' and includes the following sections:

- Account:** Shreeyazhini A's Account, ID: 292774411e364920a7d3a316c42014e0
- Account Type:** Trial (Free), 395 days remaining in Trial
- Account upgrade:**
  - Pay-As-You-Go:** Add your credit card to unlock the full power of IBM Cloud with a Pay-As-You-Go account. You'll still be eligible for free runtime and service allowances, and you'll be charged only for paid services that you use. [Learn more](#)
  - Subscription:** Get discounted pricing and increased billing predictability when you commit to a set amount of usage over time. [Learn more](#)
  - Need help?** [Contact sales](#)

The left sidebar contains navigation links: Account, Account resources, Resource groups, Cloud Foundry orgs, Licenses and entitlements, Tags, Dashboards, Account settings (selected), IBM Cloud Shell settings, Notification distribution list, Classic infrastructure, Subscriptions, Audit log, and Company information.

The bottom of the image shows a Windows taskbar with a search bar, various application icons, and system status indicators (24°C Cloudy, ENG IN, 21:36, 15-11-2022).

US-2: Configure the IBM Cloud services which are being used in completing this project.

The screenshot shows the "Resource list" interface in the Azure portal. At the top right is a blue button labeled "Create resource". Below it is a table with columns: Name, Group, Location, Product, Status, and Tags. Each column has a filter input field. The "Name" column contains a dropdown menu listing various service categories such as Compute, Containers, Networking, Storage, AI / Machine Learning, Analytics, Blockchain, Databases, Developer tools, Logging and monitoring, and Migration, each followed by "(0)". On the left side of the screen, there are several icons representing different cloud services like Virtual Machines, App Services, etc.

US – 3 : IBM Watson IoT platform acts as the mediator to connect the web application to IoT devices , so create the IBM Watson IoT platform.

[Resource list /](#)

## Internet of Things Platform-kg


Active [Add tags](#) [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.

LaunchDocs

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Ready for the next level?

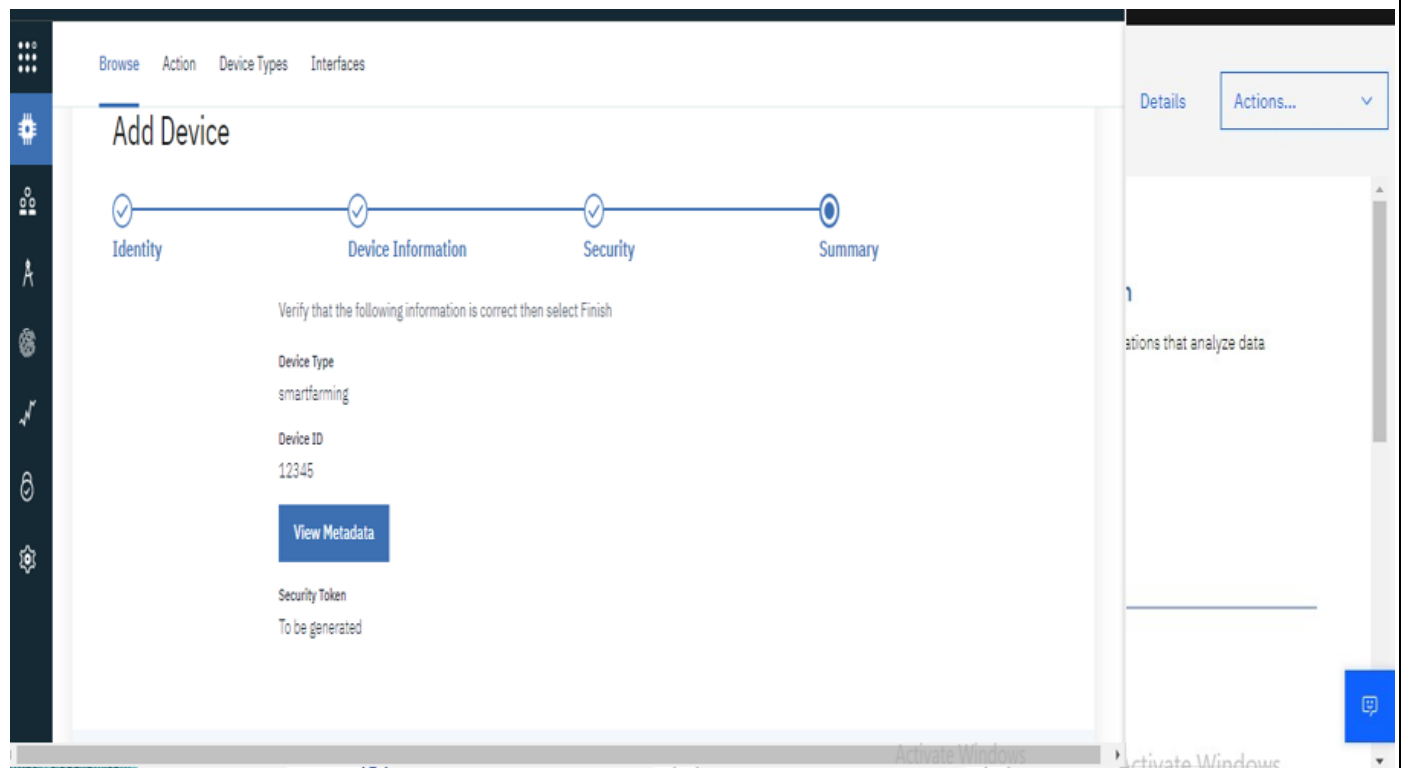
#### IBM Watson IoT Platform Journey

✓

Activate Windows

<https://cloud.ibm.com>

US – 4 : 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.



## Device Credentials Information:

The screenshot displays the IBM Watson IoT Platform interface. The main panel shows the details for a device with ID 12345, which is connected and of type smartfarming. The device was added on 31 Oct 2022 23:08 by 910019106019@smartinternz.com. The connection status is 'Connected' with a connection time of Oct 31, 2022 10:56 AM and a client address of 157.49.74.159. The right panel shows the configuration for a new event type named 'event\_1'. The schedule is set to 'Every Minute' with a delay of 20. The payload is a JSON object containing random values for soilmoisture, humidity, and temperature.

IBM Watson IoT Platform

Browse Action Device Types Interfaces

12345 Connected smartfarming

Identity Device Information Recent Events State

Device ID 12345

Device Type smartfarming

Date Added 31 Oct 2022 23:08

Added By 910019106019@smartinternz.com

Connection Status Connected  
Connection Time: Oct 31, 2022 10:56 AM  
Client Address: 157.49.74.159 SecureToken

Items per page 50 | 1-1 of 1 item

Device Type: smartfarming

Events 1 New event type +

Event type name event\_1 Send

Schedule 20 Every Minute

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

```
0 {  
1   "soilmoisture": random(0, 100),  
2   "humidity": random(0,100),  
3   "temperature": random(0,100)  
4 }  
5
```

Activate Windows

