

# Smart Farmer-IOT Enabled Smart Farming Application

IBM NALAIYATHIRAN

## Pre- Requisites IBM Cloud Services

|                         |   |
|-------------------------|---|
| <b>TITLE</b>            | <b>Smart Farmer-IOT Enabled Smart Farming Application</b> |
| <b>DOMAIN NAME</b>      | INTERNET OF THINGS  |
| <b>TEAM ID</b>          | PNT2022TMID14876  |
| <b>LEADER NAME</b>      | SAJINA S  |
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| <b>MENTOR NAME</b>      | BOOPATHY S  |

### IBM CLOUD SERVICES:

#### Creation of IBM Watson IOT Device:

#### Steps to create an IOT Watson service Device:

- ❖ Click on catalog in IBM cloud account.
- ❖ Click on services.
- ❖ Enter as Internet of thing platform.
- ❖ Enter region and pricing plan.
- ❖ Enter service name and click create.
- ❖ Click on launch.
- ❖ Then IBM Watson IOT platform opens.
- ❖ Click on sign in.
- ❖ Enter IBM Id.
- ❖ Enter Password and then you can access IBM Watson IOT platform.

## **Steps to create a device:**

- ❖ Click on devices in IBM Watson IOT platform.
- ❖ Choose to create a device.
- ❖ Enter the device type as Node MCU.
- ❖ Enter the device ID as 12345.
- ❖ Click next.
- ❖ Enter device credentials (optional).
- ❖ Click next.
- ❖ Enter the authentication token (optional).
- ❖ Click on continue.
- ❖ Click on next.
- ❖ Click finish.

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### Device Credentials

You registered your device to the organization. Add these credentials to the device to connect it to the platform. After the device is connected, you can navigate to view connection and event details.

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|                       |                    |
|-----------------------|--------------------|
| Organization ID       | 023f97             |
| Device Type           | NodeMCU            |
| Device ID             | 12345              |
| Authentication Method | use-token-auth     |
| Authentication Token  | CT8N7Sz?giHVFxk-V? |

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- ❖ ☐ Enter the device ID as 12345.
- ❖ ☐ Click next.
- ❖ ☐ Enter device credentials (optional).
- ❖ ☐ Click next.
- ❖ ☐ Enter the authentication token (optional).
- ❖ ☐ Click on continue.
- ❖ ☐ Click on next.
- ❖ ☐ Click finish.