

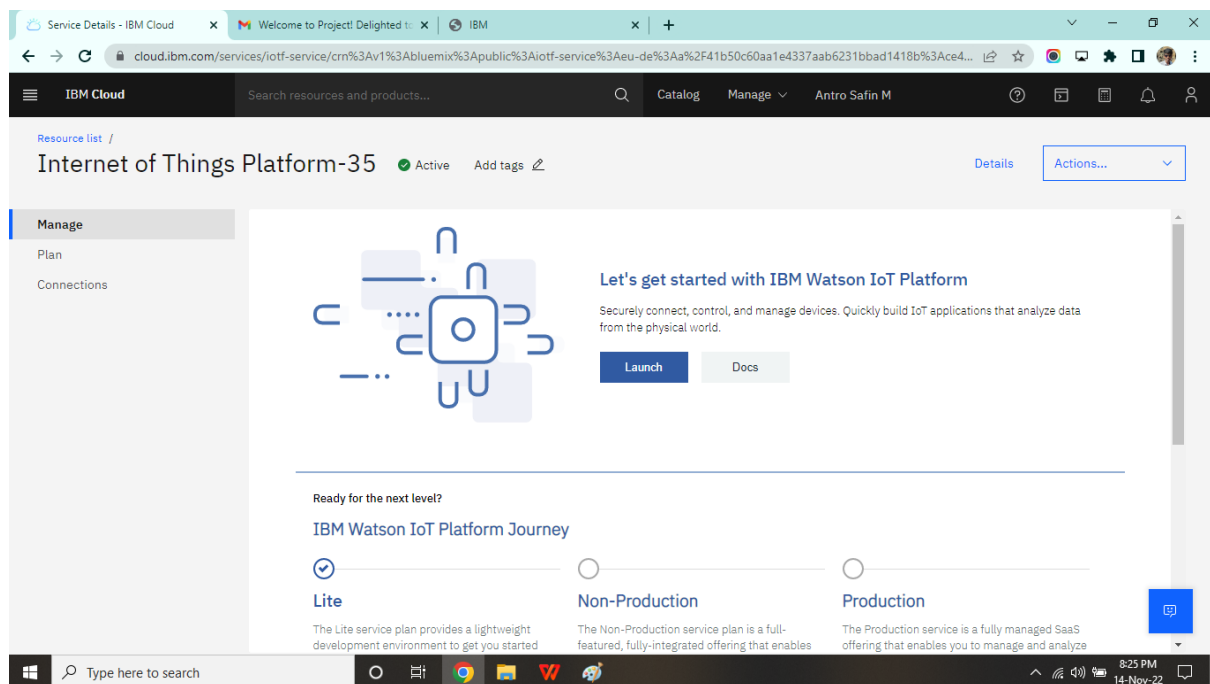
SPRINT-1

Date	29.10.2022
Team Id	PNT2022TMID02873
Project Name	Smart Farmer - IoT Enabled Smart Farming Application

Create And Configure IBM Cloud Services:

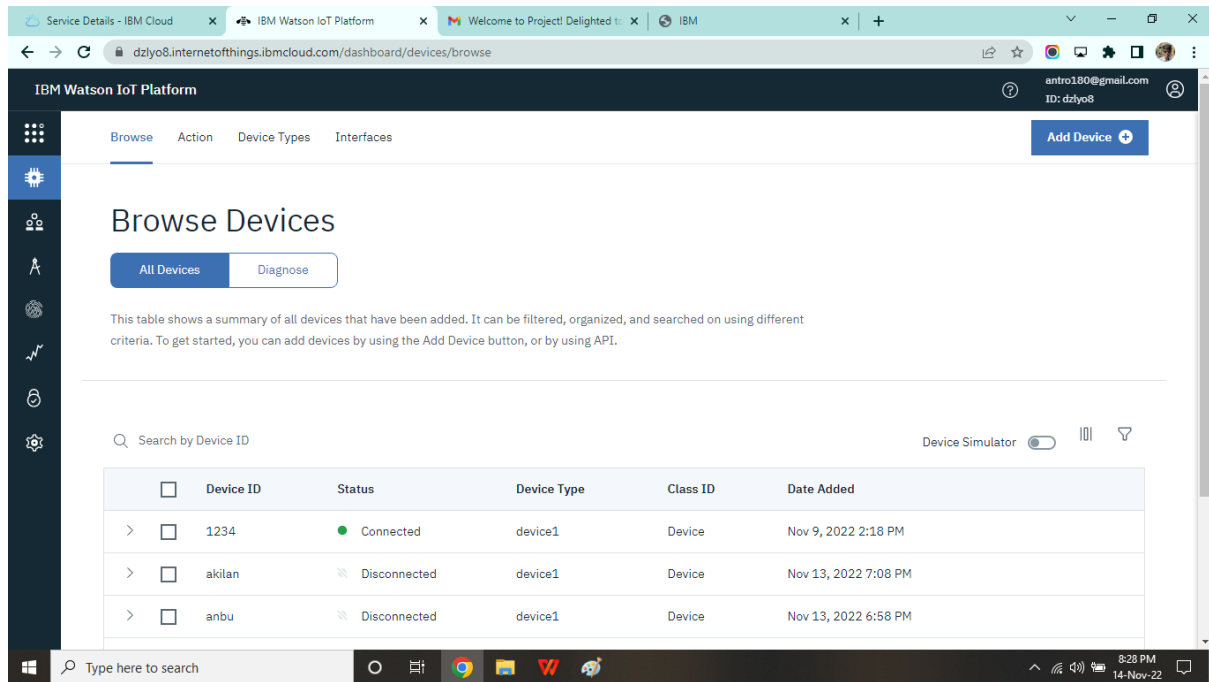
1) Create The IBM Watson IoT Platform:

- IBM Watson IoT platform acts as the mediator to connect the web application to IoT device, so create the IBM Watson IoT platform.



2) Create The IBM Watson IoT Platform device:

- 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:**

"orgId": "dzlyo8",

"typeId": "device1",

"deviceId": "1234"

"token": "123456789"

Create API Key:

- Configure the connection security and create API keys that are used in the Node-RED service for accessing the IBM IoT Platform.

The screenshot shows the 'Browse API Keys' page in the IBM Watson IoT Platform. The page has a dark sidebar with navigation icons and a main content area. At the top right, there is a 'Generate API Key' button. Below the header, there is a search bar with the placeholder text 'Type the app description to search for'. A table lists the API keys, with one key visible: 'a-dzlyo8-msxo8djns6' for the 'NODE_RED' application, with a role of 'Backend Trusted Application'. The table has columns for 'Key', 'Description', 'Role', and 'Expires'. A '1 result' indicator is shown above the table. The bottom of the screen shows a Windows taskbar with the time 8:30 PM on 14-Nov-22.

Create Node-red App:

The screenshot shows the 'Node RED XBHYG 2022-11-09' application overview page in the IBM Cloud console. The page is titled 'Node RED XBHYG 2022-11-09' and shows a status of 'Running'. The left sidebar contains navigation links: 'Getting started', 'Overview' (selected), 'Runtime', 'Connections', 'Logs', 'API Management', and 'Autoscaling'. The main content area is divided into several sections: 'Instances' showing 'Health 100%' and '1/1 instance(s) are running', a slider for 'MB memory per instance' set to 256, and a 'Runtime' section with a donut chart showing '256 Total MB allocation' and '1.75 GB still available'. The 'Runtime cost' section shows '\$0.00' for current and estimated costs. The 'Connections (1)' section shows a single connection: 'node-red-xbhyg-2022--cloudant-1667984239240-13999'. The bottom of the screen shows a Windows taskbar with the time 8:31 PM on 14-Nov-22.

