Experiment no. 8

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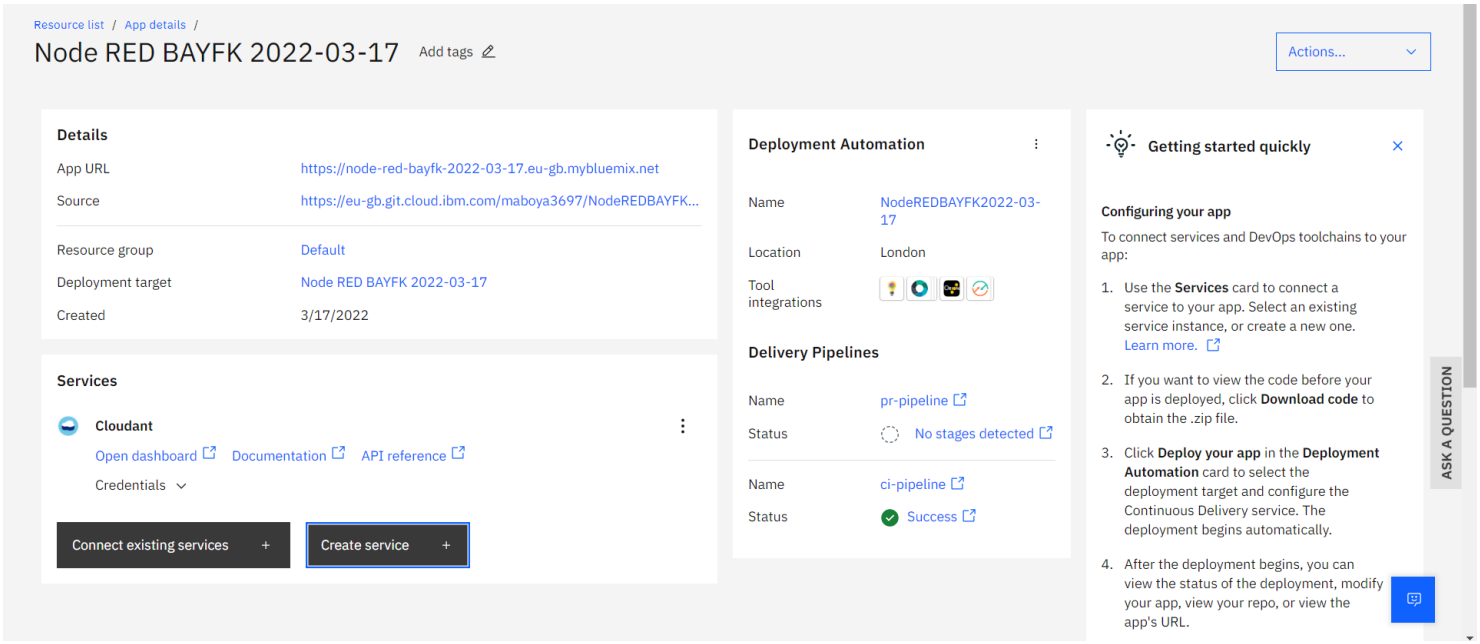
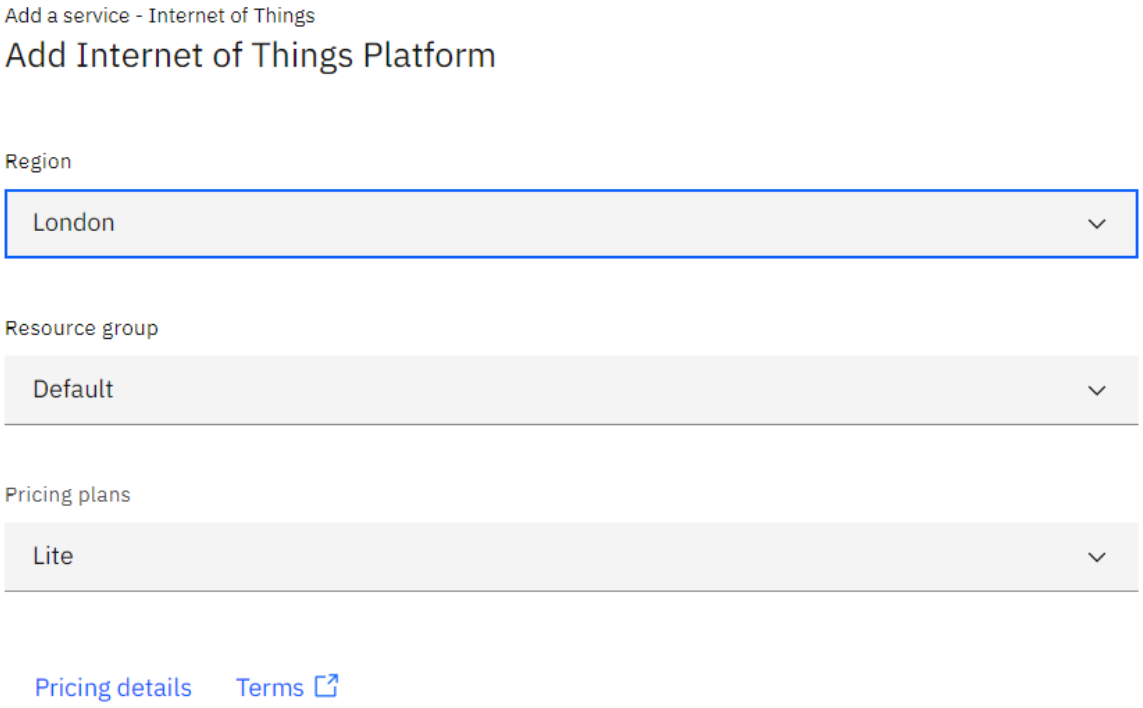
Branch: CSE-IOT **Sec/Grp:** 1-A
Sem: 6th **Date:** 21/04/2022
Subject: CCIOT Lab **Code:** CSD-387

1. Aim/Overview of the practical:

Create an Internet of Things Platform starter application

2. Steps for experiment/practical:





App URL	https://node-red-bayfk-2022-03-17.eu-gb.mybluemix.net
Source	https://eu-gb.git.cloud.ibm.com/maboya3697/NodeREDBAYFK...
Resource group	Default
Deployment target	Node RED BAYFK 2022-03-17
Created	3/17/2022

Services

Internet of Things Platform

Open dashboard Documentation

Credentials

Cloudant

Open dashboard Documentation API reference

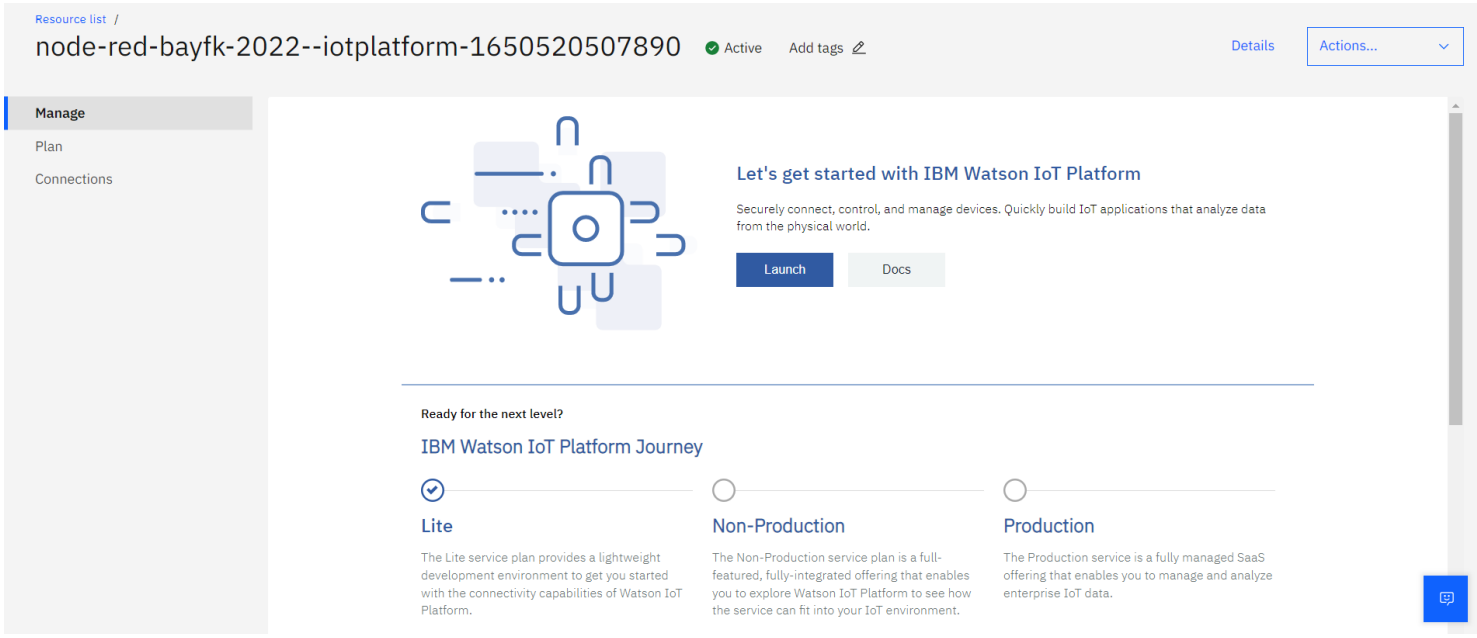
Credentials

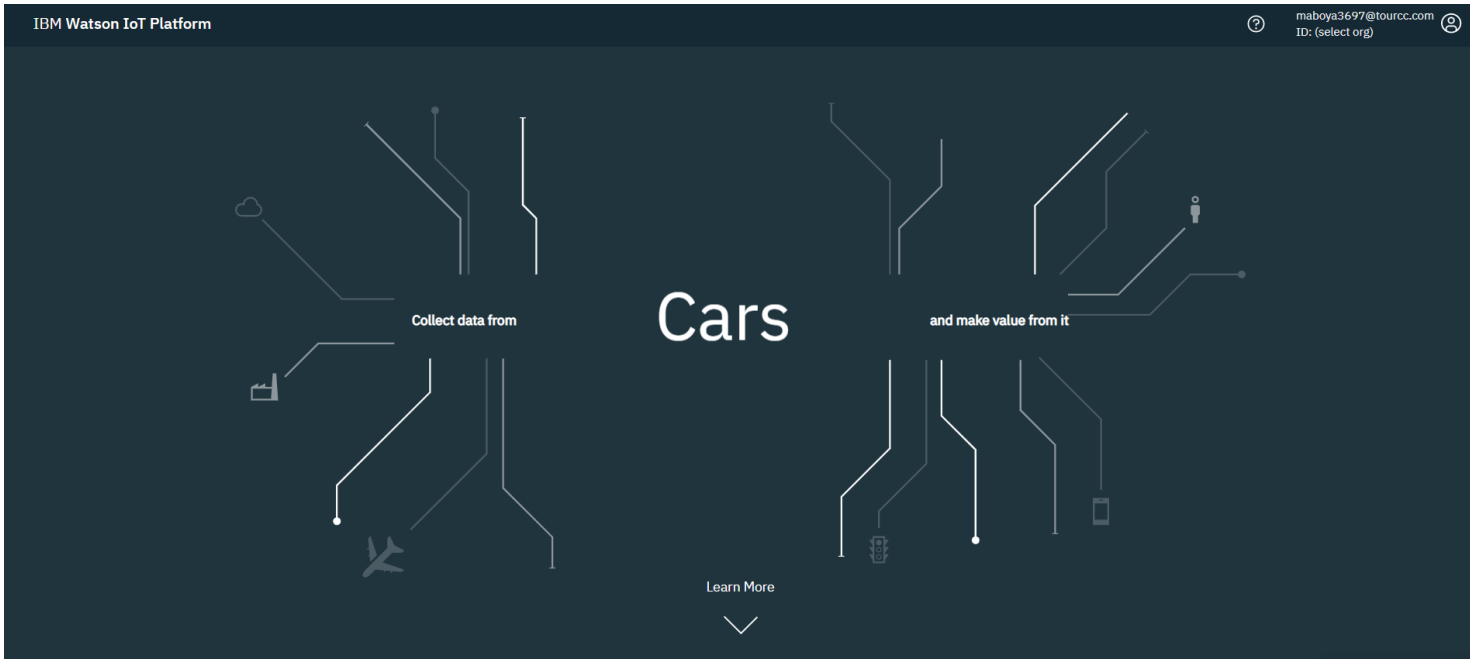
Connect existing services +

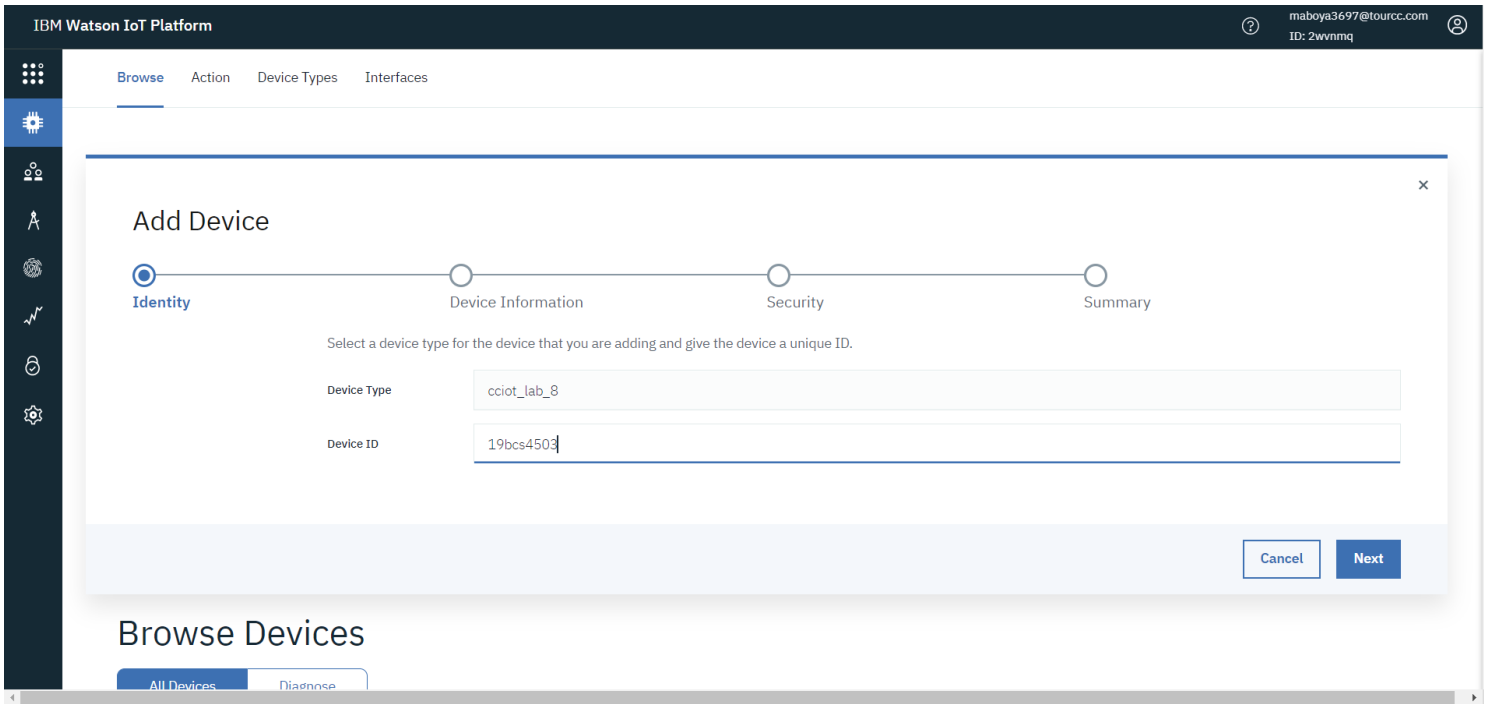
Create service +

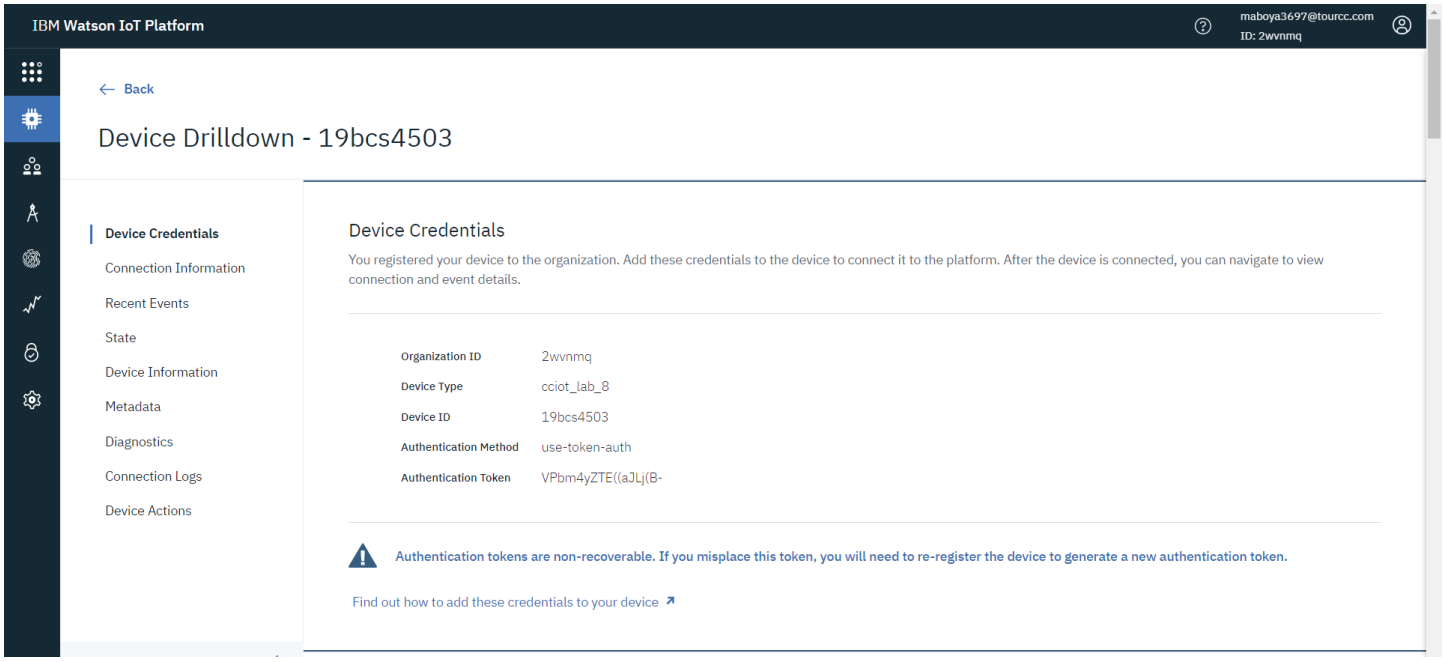
package.json 771 Bytes — Edit | Replace | Delete

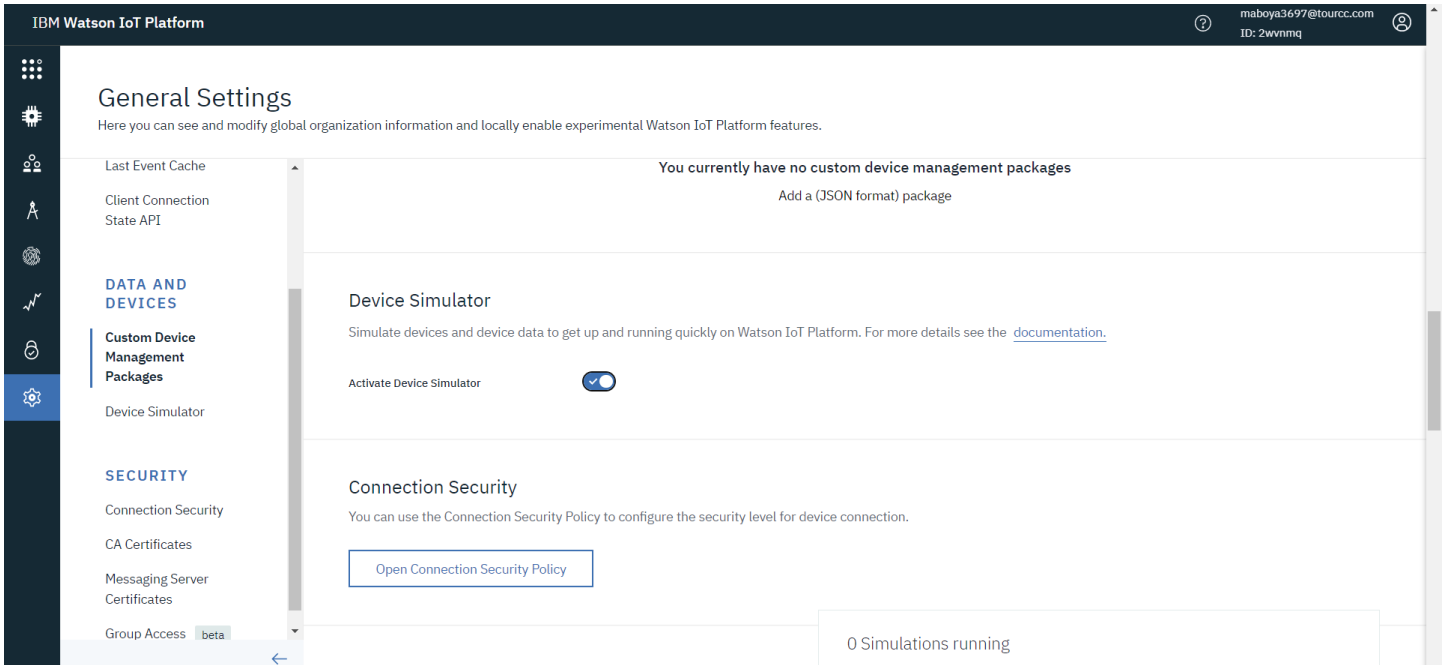
```
{
    "name": "node-red-app",
    "version": "1.1.3",
    "dependencies": {
        "node-red-dashboard":"2.x",
        "@ibm-cloud/cloudant": "^0.0.25",
        "bcrypt": "^5.0.1",
        "body-parser": "1.x",
        "express": "4.x",
        "http-shutdown": "1.2.2",
        "ibm-cloud-env": "^0",
        "node-red": "^2.2.2",
        "node-red-contrib-ibm-db2": "0.x",
        "node-red-node-cf-cloudant": "0.x",
        "node-red-node-openwhisk": "0.x",
        "node-red-node-watson": "0.x",
        "node-red-contrib-scx-ibmiotapp": "0.x",
        "node-red-nodes-cf-sqldb-dashdb": "0.x"
    },
    "scripts": {
        "start": "node --max-old-space-size=160 index.js --settings ./bluemix-settings.js -v"
    },
    "engines": {
        "node": "14.x"
    }
}
```

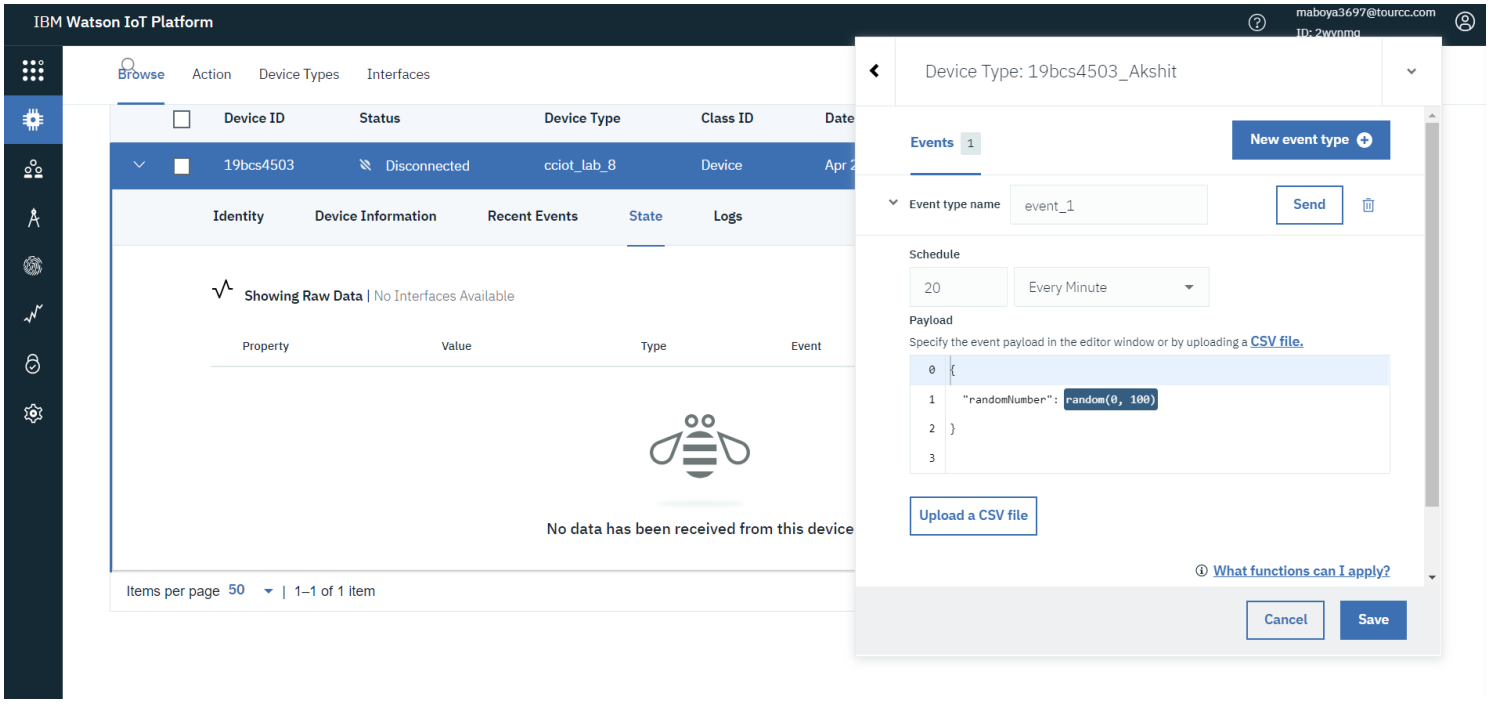


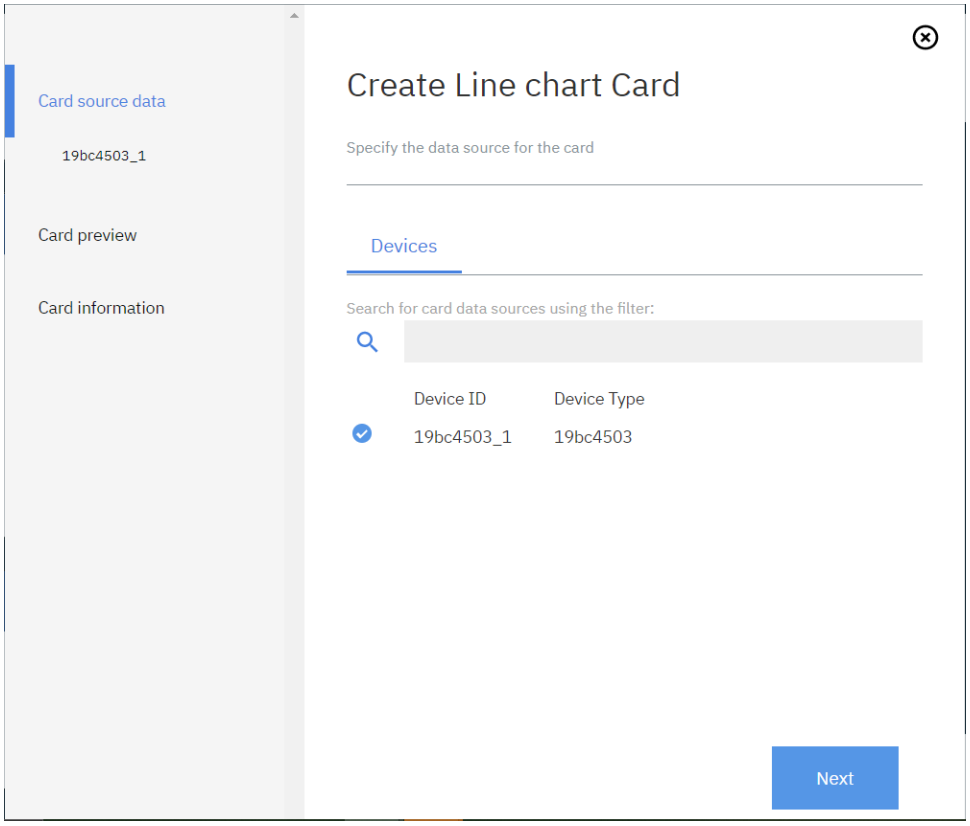

IBM Watson IoT Platform
maboya3697@tourcc.com
ID: (select org)
Collect data from
Cars
and make value from it
Learn More


IBM Watson IoT Platform
maboya3697@tourcc.com
ID: 2wvnmq
Browse
Action
Device Types
Interfaces
Add Device
Identity
Device Information
Security
Summary
Select a device type for the device that you are adding and give the device a unique ID.
Device Type
cciot_lab_8
Device ID
19bcs4503
Cancel
Next
Browse Devices
All Devices
Diagnose

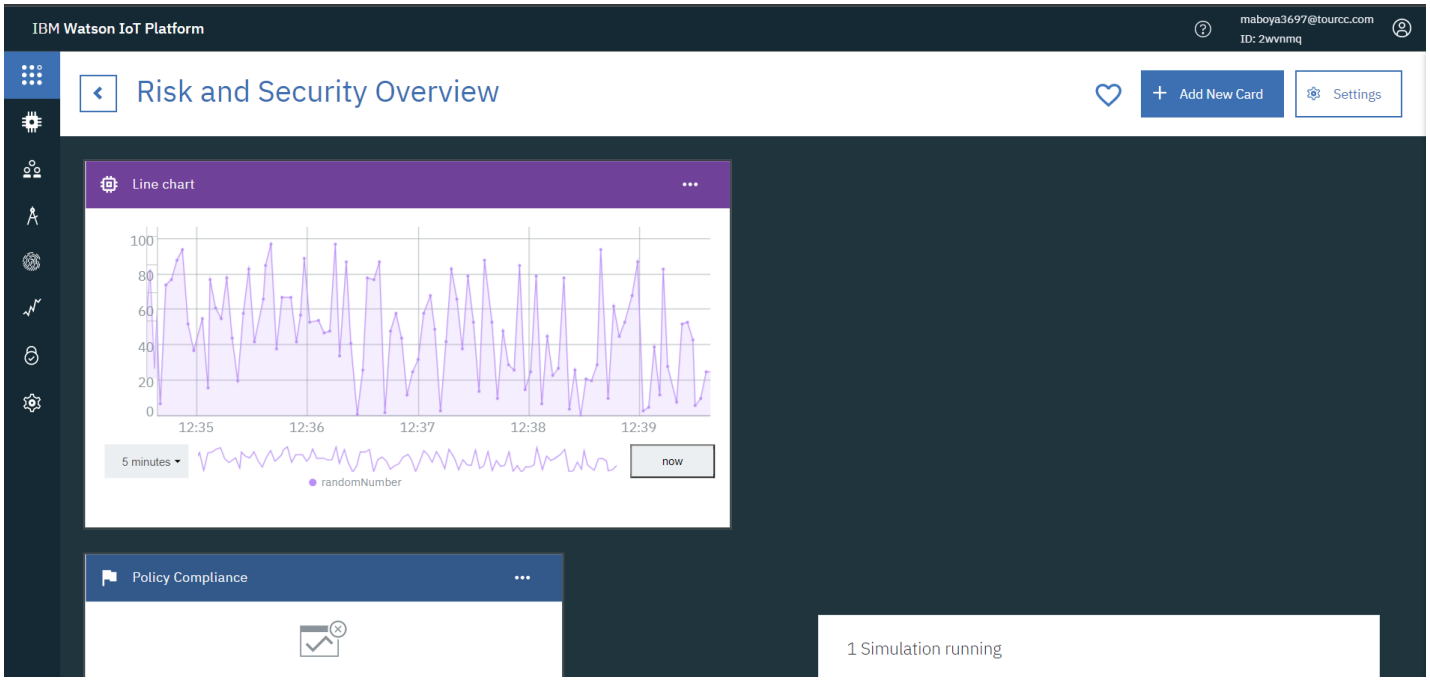

IBM Watson IoT Platform
maboya3697@tourcc.com
ID: 2wvnmq
Back
Device Drilldown - 19bcs4503
Device Credentials
Connection Information
Recent Events
State
Device Information
Metadata
Diagnostics
Connection Logs
Device Actions
Device Credentials
You registered your device to the organization. Add these credentials to the device to connect it to the platform. After the device is connected, you can navigate to view connection and event details.
Organization ID 2wvnmq
Device Type cciot_lab_8
Device ID 19bcs4503
Authentication Method use-token-auth
Authentication Token VPbm4yZTE((aJLj(B-
Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the device to generate a new authentication token.
Find out how to add these credentials to your device


IBM Watson IoT Platform
maboya3697@tourcc.com
ID: 2wvnmq
General Settings
Here you can see and modify global organization information and locally enable experimental Watson IoT Platform features.
Last Event Cache
Client Connection State API
DATA AND DEVICES
Custom Device Management Packages
Device Simulator
SECURITY
Connection Security
CA Certificates
Messaging Server Certificates
Group Access beta
You currently have no custom device management packages
Add a (JSON format) package
Device Simulator
Simulate devices and device data to get up and running quickly on Watson IoT Platform. For more details see the documentation.
Activate Device Simulator
Connection Security
You can use the Connection Security Policy to configure the security level for device connection.
Open Connection Security Policy
0 Simulations running


IBM Watson IoT Platform
maboya3697@tourcc.com
Browse
Action
Device Types
Interfaces
Device ID
Status
Device Type
Class ID
19bcs4503
Disconnected
cciot_lab_8
Device
Identity
Device Information
Recent Events
State
Logs
Showing Raw Data | No Interfaces Available
Property
Value
Type
Event
No data has been received from this device
Items per page 50 | 1–1 of 1 item
Device Type: 19bcs4503_Akshit
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.
{
"randomNumber": random(0, 100)
}
Upload a CSV file
What functions can I apply?
Cancel
Save


Card source data
19bc4503_1
Card preview
Card information
Create Line chart Card
Specify the data source for the card
Devices
Search for card data sources using the filter:
Device ID
Device Type
19bc4503_1
19bc4503
Next

3. Output: Image of sample output to be attached here



Learning outcomes (What I have learnt):

1. Creating an IOT platform starter application.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			