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|--------------|--|
| Team ID | PNT2022TMID19465 |
| Project Name | Project - Smart Solutions For Railways |

The image displays two screenshots related to an IBM Watson IoT Platform project.

Top Screenshot: IBM Watson IoT Platform Dashboard

The dashboard shows a list of devices under the 'Browse' tab. The table below represents the data shown in the interface:

| Device ID | Status | Device Type | Class ID | Date Added | Descriptive Location |
|-----------|--------------|-------------|----------|----------------------|----------------------|
| 232323 | Disconnected | railway23 | Device | Nov 11, 2022 6:17 PM | |
| Device1 | Connected | railway23 | Device | Nov 2, 2022 3:34 PM | |

A detailed view of 'Device1' is shown below the table:

- Device ID:** Device1
- Device Type:** railway23
- Date Added:** Nov 2, 2022 3:34 PM
- Added By:** kowsalya.19cs057@nandhaengg.org
- Connection Status:** Connected
 - Connection Time: Nov 12, 2022 1:08 PM
 - Client Address: 122.173.96.145 SecureToken

Bottom Screenshot: Jupyter Notebook

The Jupyter Notebook shows a Python script for connecting to the IBM Watson IoT Platform and publishing data. The script includes the following code:

```

1 import wiotp.sdk.device
2 import time
3 import random
4 myConfig = {
5     "identity": {
6         "orgId": "xfxj98",
7         "typeId": "railway23",
8         "deviceId": "Device1"
9     },
10    "auth": {
11        "token": "987456321"
12    }
13 }
14
15 def myCommandCallback(cmd):
16     print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
17     m=cmd.data['command']
18
19 client = wiotp.sdk.device.DeviceClient(config=myConfig, loghandlers=None)
20 client.connect()
21
22 def pub(data):
23     client.publish(eventId="status", msgformat="json", data=myData, onPublish=None)
24     print("Published data Successfully: %s" % myData)

```

The output of the script shows multiple successful data publications with the following structure:

```

Published data Successfully: %s {'name': 'Train1', 'lat': 17.6132382, 'lon': 78.4787318}
Published data Successfully: %s {'name': 'Train1', 'lat': 17.6387448, 'lon': 78.4754336}
Published data Successfully: %s {'name': 'Train1', 'lat': 17.6341908, 'lon': 78.4744722}
Published data Successfully: %s {'name': 'Train1', 'lat': 17.6348889, 'lon': 78.4745052}
Published data Successfully: %s {'name': 'Train1', 'lat': 17.6248626, 'lon': 78.4720259}
Published data Successfully: %s {'name': 'Train1', 'lat': 17.6188577, 'lon': 78.4698726}
Published data Successfully: %s {'name': 'Train1', 'lat': 17.6132382, 'lon': 78.4787318}
Published data Successfully: %s {'name': 'Train1', 'lat': 17.6387448, 'lon': 78.4754336}
Published data Successfully: %s {'name': 'Train1', 'lat': 17.6341908, 'lon': 78.4744722}
Published data Successfully: %s {'name': 'Train1', 'lat': 17.6348889, 'lon': 78.4745052}
Published data Successfully: %s {'name': 'Train1', 'lat': 17.6248626, 'lon': 78.4720259}
Published data Successfully: %s {'name': 'Train1', 'lat': 17.6188577, 'lon': 78.4698726}

```

IBM

IBM EP8U/IBM Project 32388-1iMeet - og-ownr-mmwService Details - IBM CloudIBM Watson IoT Platformwiotp-sdk - PyPI

xfy98.internetofthings.ibmcloud.com/dashboard/devices/browse

IBM Watson IoT Platform

100%kowsalya.19cs057@handhaengg.orgID: xfy98

BrowseActionDevice TypesInterfaces

Add Device

Device1Connectedrailway23DeviceNov 2, 2022 3:34 PM

IdentityDevice InformationRecent EventsStateLogs

The recent events listed show the live stream of data that is coming and going from this device.

| Event | Value | Format | Last Received |
|--------|---|--------|-------------------|
| status | {"name":"Train1","lat":17.6387448,"lon":78.475... | json | a few seconds ago |
| status | {"name":"Train1","lat":17.6132382,"lon":78.470... | json | a few seconds ago |
| status | {"name":"Train1","lat":17.6188577,"lon":78.469... | json | a few seconds ago |
| status | {"name":"Train1","lat":17.6248626,"lon":78.472... | json | a few seconds ago |
| status | {"name":"Train1","lat":17.6340889,"lon":78.474... | json | a few seconds ago |

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23°C Raining now

Search

ENG IN

13:09 12-11-2022