

Sprint – 2

Integrating cloud

Team ID	PNT2022TMID52873
Project Name	Project - Signs with smart connectivity for Better road safety

Dump the code from Sprint 1 to cloud, so it can be accessed from anywhere.

Python code in IDE:

The screenshot displays the PyCharm IDE interface. The top menu bar includes File, Edit, View, Navigate, Code, Refactor, Tools, Windows, and Help. The left sidebar shows the Project view with the following structure:

- Project
 - IBM
 - ibm.py
 - External Libraries
 - ibm.py
 - Scratches and Consoles

The main editor window shows the code in `ibm.py`:

```
1 # IBM Watson IoT Platform
2 # pip install wiotp-sdk
3 import wiotp.sdk.device
4 import time
5 import random
6 myConfig = {
7     "identity": {
8         "orgId": "101kxy",
9         "typeId": "temphum",
10        "deviceId": "tiece"
11    },
12    "auth": {
13        "token": "51of4gQxPXz-JD(0?E"
14    }
15 }
16
17 def myCommandCallback(cmd):
18     print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
19
20 "auth"
```

The Run window at the bottom shows the output of the script:

```
Published data Successfully: %s {'temperature': -18, 'humidity': 29}
Published data Successfully: %s {'temperature': 85, 'humidity': 28}
Published data Successfully: %s {'temperature': 116, 'humidity': 13}
Published data Successfully: %s {'temperature': 48, 'humidity': 46}
Published data Successfully: %s {'temperature': -19, 'humidity': 18}
Published data Successfully: %s {'temperature': 99, 'humidity': 98}
Published data Successfully: %s {'temperature': 184, 'humidity': 50}
Published data Successfully: %s {'temperature': 96, 'humidity': 28}
Published data Successfully: %s {'temperature': 39, 'humidity': 58}
Published data Successfully: %s {'temperature': -15, 'humidity': 44}
```

The bottom status bar indicates the following information:

- Run: Indexing completed in 25 sec. Shared indexes were applied to 1811 of 4070 files (44%) (7 minutes ago)
- 12:14 CRLF UTF-8 4 spaces Python 3.8
- 23:29 13-11-2022

[illegible]

IBM CLOUD:

Watson IoT Platform:

The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. The main content area displays a table of devices. The device 'ticece' is selected, showing its details in a sidebar. The 'Recent Events' tab is active, displaying a stream of data events.

Event	Value	Format	Last Received
status	{"temperature":-3,"humidity":67}	json	a few seconds ago
status	{"temperature":61,"humidity":63}	json	a few seconds ago
status	{"temperature":74,"humidity":9}	json	a few seconds ago
status	{"temperature":6,"humidity":19}	json	a few seconds ago
status	{"temperature":93,"humidity":83}	json	a few seconds ago

0 Simulations running

The screenshot shows the IBM Watson IoT Platform dashboard with a search bar at the top. The device 'ticece' is selected, and the 'Recent Events' tab is active. The data stream shows events with location and temperature information.

Event	Value	Format	Last Received
status	{"location":"Coimbatore","temperature":297.03,"..."}	json	a few seconds ago
status	{"location":"Coimbatore","temperature":297.03,"..."}	json	a few seconds ago
status	{"location":"Coimbatore","temperature":297.03,"..."}	json	a few seconds ago
status	{"location":"Coimbatore","temperature":297.03,"..."}	json	a few seconds ago
status	{"location":"Coimbatore","temperature":297.03,"..."}	json	a few seconds ago

