

DEVELOP THE PYTHON SCRIPT

PUBLISH DATA TO IBM CLOUD

The screenshot displays the IBM Watson IoT Platform dashboard on the left and a Python script execution window on the right.

IBM Watson IoT Platform Dashboard:

- Navigation tabs: Browse, Action, Device Types, Interfaces.
- Device ID: 0001, Status: Connected, Type: NodeMCU.
- Recent events table:

Event	Value
status	["toxic":37,"temperature":34,"ph":4]
event_2	["temperature":12,"ph":6,"toxic":38]
status	["toxic":81,"temperature":33,"ph":2]
status	["toxic":8,"temperature":8,"ph":12]
status	["toxic":31,"temperature":17,"ph":9]

1 Simulation running

Python Script Execution Window:

```
Python 3.7.4 Shell
File Edit Shell Debug Options Window Help
Python 3.7.4 (tags/v3.7.4:09359112e, Jul 8 2019, 20:34:20) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\python1\Python37\python.py =====
2022-11-18 17:23:14,162 | wiotp.sdk.device.client.DeviceClient | INFO | Connected successful
ly: d:\jpj8ce\NodeMCU:0001
Published data successfully: {'toxic': 83, 'temperature': 45, 'ph': 13}
Published data successfully: {'toxic': 73, 'temperature': 10, 'ph': 3}
Published data successfully: {'toxic': 54, 'temperature': 4, 'ph': 14}
Published data successfully: {'toxic': 52, 'temperature': 21, 'ph': 4}
Published data successfully: {'toxic': 49, 'temperature': 6, 'ph': 13}
Published data successfully: {'toxic': 33, 'temperature': 26, 'ph': 4}
Published data successfully: {'toxic': 44, 'temperature': 42, 'ph': 2}
Published data successfully: {'toxic': 95, 'temperature': 26, 'ph': 2}
Published data successfully: {'toxic': 71, 'temperature': 49, 'ph': 2}
Published data successfully: {'toxic': 64, 'temperature': 2, 'ph': 8}
Published data successfully: {'toxic': 39, 'temperature': 40, 'ph': 4}
Published data successfully: {'toxic': 22, 'temperature': 35, 'ph': 7}
Published data successfully: {'toxic': 12, 'temperature': 4, 'ph': 4}
Published data successfully: {'toxic': 7, 'temperature': 27, 'ph': 2}
Published data successfully: {'toxic': 31, 'temperature': 17, 'ph': 9}
Published data successfully: {'toxic': 8, 'temperature': 8, 'ph': 12}
Published data successfully: {'toxic': 81, 'temperature': 33, 'ph': 2}
Published data successfully: {'toxic': 37, 'temperature': 34, 'ph': 4}
Published data successfully: {'toxic': 44, 'temperature': 3, 'ph': 14}
```