

## PUBLISH DATA TO THE IBM CLOUD

The image shows a Python IDE on the left and the IBM Watson IoT Platform interface on the right. The IDE displays a Python script that generates random pH, turbidity, and temperature data and publishes it to the IoT platform. The console shows a stream of published data points. The IoT Platform interface shows a list of recent events, each containing a JSON object with pH, turbidity, and temperature values.

**Python Script (Test\_python\_3.7.4.py):**

```
42 pH = random.r
43 turbidity = random.randint(1,
44 temperature = random.randint(0,
45
46 data = {'pH': pH, 'turbid': tur
47
48
49 # print(data)
50 def myOnPublishCallback():
51
52 while True
```

**Console Output (Test\_python\_3.7.4):**

```
Published pH= 4 Turbidity:492 Temperature:71
Published pH= 13 Turbidity:564 Temperature:54
Published pH= 2 Turbidity:571 Temperature:98
Published pH= 7 Turbidity:677 Temperature:65
Published pH= 8 Turbidity:352 Temperature:13
Published pH= 5 Turbidity:862 Temperature:88
Published pH= 3 Turbidity:834 Temperature:7
Published pH= 9 Turbidity:213 Temperature:89
Published pH= 14 Turbidity:677 Temperature:22
Published pH= 11 Turbidity:292 Temperature:180
Published pH= 2 Turbidity:53 Temperature:21
Published pH= 6 Turbidity:499 Temperature:69
Published pH= 11 Turbidity:238 Temperature:20
Published pH= 2 Turbidity:443 Temperature:43
Published pH= 6 Turbidity:786 Temperature:91
Published pH= 5 Turbidity:593 Temperature:85
Published pH= 14 Turbidity:308 Temperature:86
Published pH= 4 Turbidity:532 Temperature:8
```

**IBM Watson IoT Platform Interface:**

The interface shows a list of recent events. The table below represents the data shown in the interface:

Event	Value
demo	{"pH":12,"turbid":93,"temp":87}
demo	{"pH":7,"turbid":873,"temp":94}
demo	{"pH":3,"turbid":204,"temp":19}
demo	{"pH":11,"turbid":304,"temp":77}
demo	{"pH":13,"turbid":16,"temp":50}

At the bottom of the interface, there is a status bar showing "00003 Disconnected Micro\_controller\_2" and a pagination control showing "Items per page 50 | 1-3 of 3 items 1 of 1 page".