

PNT2022TMID16068

REAL TIME RIVER WATER QUALITY MANAGEMENT

PUBLISH DATA IBM CLOUD

The image shows a Python script in an IDE (left) and the IBM Watson IoT Platform dashboard (right). The script generates random pH, turbidity, and temperature values and publishes them to the IoT platform. The dashboard displays a list of recent events with their values.

```
Test_python_3.7.4.py
pH = random.r
turbidity = random.randint(1,
temperature = random.randint(0,

data = {'pH': pH, 'turbid': tur

# print(data)
def myOnPublishCallback():
while True
```

Run: Test_python_3.7.4

Published pH= 4 Turbidity:242 Temperature:71
Published pH= 12 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:160
Published pH= 2 Turbidity:53 Temperature:21
Published pH= 6 Turbidity:499 Temperature:69
Published pH= 11 Turbidity:238 Temperature:26
Published pH= 2 Turbidity:443 Temperature:43
Published pH= 6 Turbidity:986 Temperature:91
Published pH= 5 Turbidity:593 Temperature:85
Published pH= 14 Turbidity:368 Temperature:86
Published pH= 4 Turbidity:532 Temperature:8
Published pH= 3 Turbidity:56 Temperature:8

IBM Watson IoT Platform

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The recent events listed show the live stream of data that is coming an

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}

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