

# PNT2022TMID47935

## REAL TIME RIVER WATER QUALITY MANAGEMENT

### PUBLISH DATA IBM CLOUD

The image shows a Python script in PyCharm and the IBM Watson IoT Platform dashboard. The script generates random pH, turbidity, and temperature values and publishes them to the IoT platform. The dashboard displays a live stream of these events.

```
42 pH = random.r
43 turbidity = random.randint(1,
44 temperature = random.randint(3
45
46 data = {'pH': pH, 'turbid': tur
47
48 # print(data)
49
50 def myOnPublishCallback():
51     while True
```

The IBM Watson IoT Platform dashboard shows the following data:

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 dashboard, a device named 'Micro\_controller\_2' with ID '00003' is shown as 'Disconnected'.