

REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM

PNT2022TMID33851

Create IBM Watson IOT platform and device

The screenshot displays the IBM Watson IoT Platform dashboard. The top navigation bar includes links for 'Browse', 'Action', 'Device Types', and 'Interfaces'. A search bar labeled 'Search by Device ID' is present. The main content area shows a table with the following columns: Device ID, Status, Device Type, Class ID, and Date Added. A single device, 'Arduino_1', is listed with a status of 'Connected' and a device type of 'Arduino'. A detailed view of this device is shown below the table, including its identity, device information, recent events, state, and logs. The device information section lists the following details:

Identity	Device Information	Recent Events	State	Logs
Device ID	Arduino_1			
Device Type	Arduino			
Date Added	Nov 15, 2022 12:27 PM			
Added By	rkmathi2019@gmail.com			
Connection Status	Connected			
	Connection Time: Nov 15, 2022 3:42 PM			
	Client Address: 14.139.188.206 SecureToken			

The bottom of the dashboard shows a status bar with '1 Simulation running' and a temperature reading of '34°C Cloudy'. The Windows taskbar at the bottom indicates the time is 15:42 on 15-11-2022.

IBM Watson IoT Platform

Device Type: Arduino

Events 1

New event type +

Event type name eventflow Send

Schedule 1 Every Minute

Payload

Specify the event payload in the editor window or by uploading a CSV file.

```
0 {
1   "randomNumber": random(0, 100),
2   "temp": random(90, 110),
3   "humid": random(60, 100)
4 }
5
```

Upload a CSV file

Event	Value
eventflow	{"randomNumber":86,"temp":105,"humid":86}
eventflow	{"randomNumber":60,"temp":104,"humid":81}
eventflow	{"randomNumber":10,"temp":93,"humid":87}
eventflow	{"randomNumber":33,"temp":99,"humid":72}
eventflow	{"randomNumber":22,"temp":103,"humid":66}

Items per page 50 | 1-1 of 1 item

Output :

IBM Watson IoT Platform

Device ID Status Device Type Class ID Date Added

Arduino_1 Connected Arduino Device Nov 15, 2022 11:35 AM

Identity Device Information Recent Events State Logs

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
eventflow	{"randomNumber":50,"temp":98,"humid":65}	json	a few seconds ago
eventflow	{"randomNumber":46,"temp":109,"humid":71}	json	a minute ago
eventflow	{"randomNumber":75,"temp":95,"humid":77}	json	a minute ago
eventflow	{"randomNumber":5,"temp":108,"humid":91}	json	a minute ago

1 Simulation running

