

Building Mobile App

Configure the Application to Receive data from the cloud

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Project Name	Real-Time River Water Quality Monitoring and Control System

Workflow and the Received Data from the Cloud:

The screenshot displays the Node-RED web interface in a browser. The workflow in Flow 1 consists of an 'IBM IoT' node connected to a 'msg.payload' node. Between them are three function nodes: 'random number', 'temperature', and 'Humidity'. The 'debug' console on the right shows a series of messages received from the IoT node, including objects with 'randomnumber', 'temp', and 'Humid' properties, and individual values for 'number' and 'undefined'.

```
graph LR; IoT[IBM IoT] --> RN[random number]; IoT --> Temp[temperature]; IoT --> Hum[Humidity]; RN --> MP[msg.payload]; Temp --> MP; Hum --> MP;
```

debug

```
11/16/2022, 7:50:30 PM node: a093baafae333897  
iot-2/type/LaptopId/0410/evi/evntB/fm/json : msg.payload : Object  
> { randomnumber: 74, temp: 94, Humid: 23 }  
11/16/2022, 7:50:30 PM node: c2e27151337d3e7  
iot-2/type/LaptopId/0410/evi/evntB/fm/json : msg.payload : Object  
> { randomnumber: 74, temp: 94, Humid: 23 }  
11/16/2022, 7:50:32 PM node: a093baafae333897  
iot-2/type/LaptopId/0410/evi/evntB/fm/json : msg.payload : number  
74  
11/16/2022, 7:50:33 PM node: a093baafae333897  
iot-2/type/LaptopId/0410/evi/evntB/fm/json : msg.payload : number  
94  
11/16/2022, 7:50:34 PM node: a093baafae333897  
iot-2/type/LaptopId/0410/evi/evntB/fm/json : msg.payload : number  
23  
11/16/2022, 7:50:35 PM node: c2e27151337d3e7  
iot-2/type/LaptopId/0410/evi/evntB/fm/json : msg.payload : undefined  
undefined  
11/16/2022, 7:50:36 PM node: c2e27151337d3e7  
iot-2/type/LaptopId/0410/evi/evntB/fm/json : msg.payload : undefined  
undefined
```

Activate Windows
Go to Settings to activate Windows.

IBM Watson IoT Platform

Browse Action Device Types Interfaces

criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

Device ID	Status	Device Type
0410	Disconnected	Laptop

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

Event	Value
IoTSensor	{"PH":98,"Turbidity":69}
IoTSensor	{"PH":94,"Turbidity":60}

Device Type: Laptop

Events 1

New event type

Event type name event8 Send

Schedule 2 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(0,100),
3   "Humid":random(20,80)
4 }
```

Upload a CSV file

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Add Device

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
event8	{"randomnumber":74,"temp":94,"Humid":23}	json	a few seconds ago
event8	{"randomnumber":48,"temp":5,"Humid":75}	json	a few seconds ago

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1 Simulation running

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