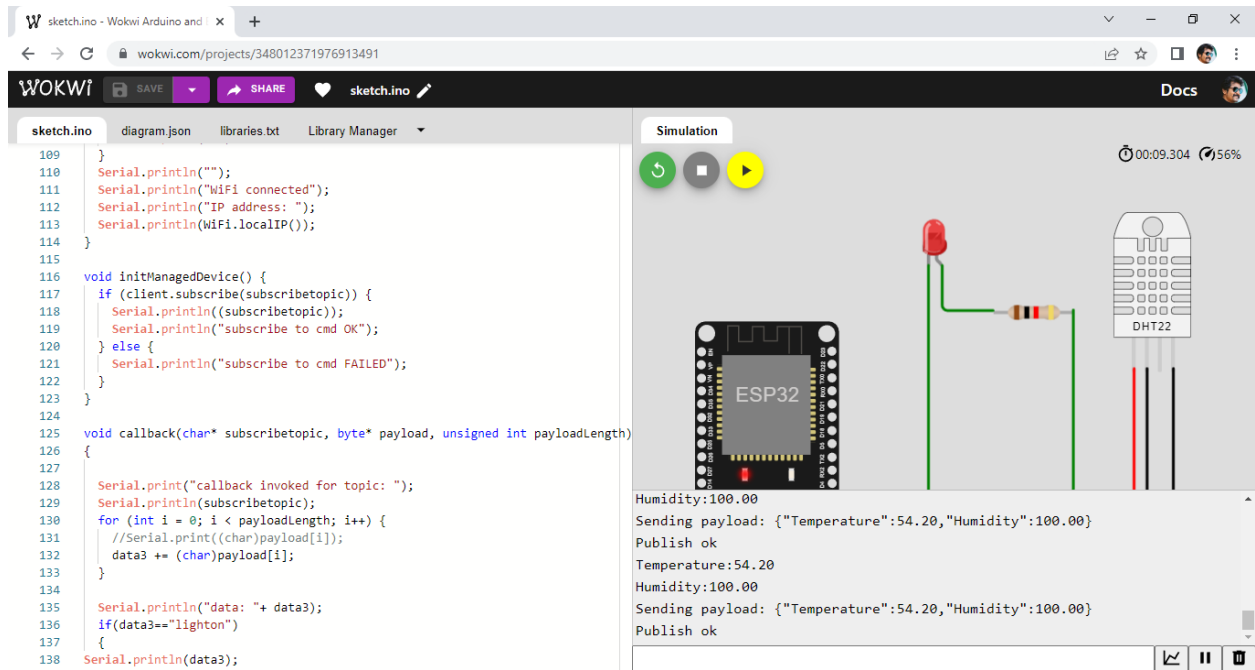


Publish data to the IBM cloud

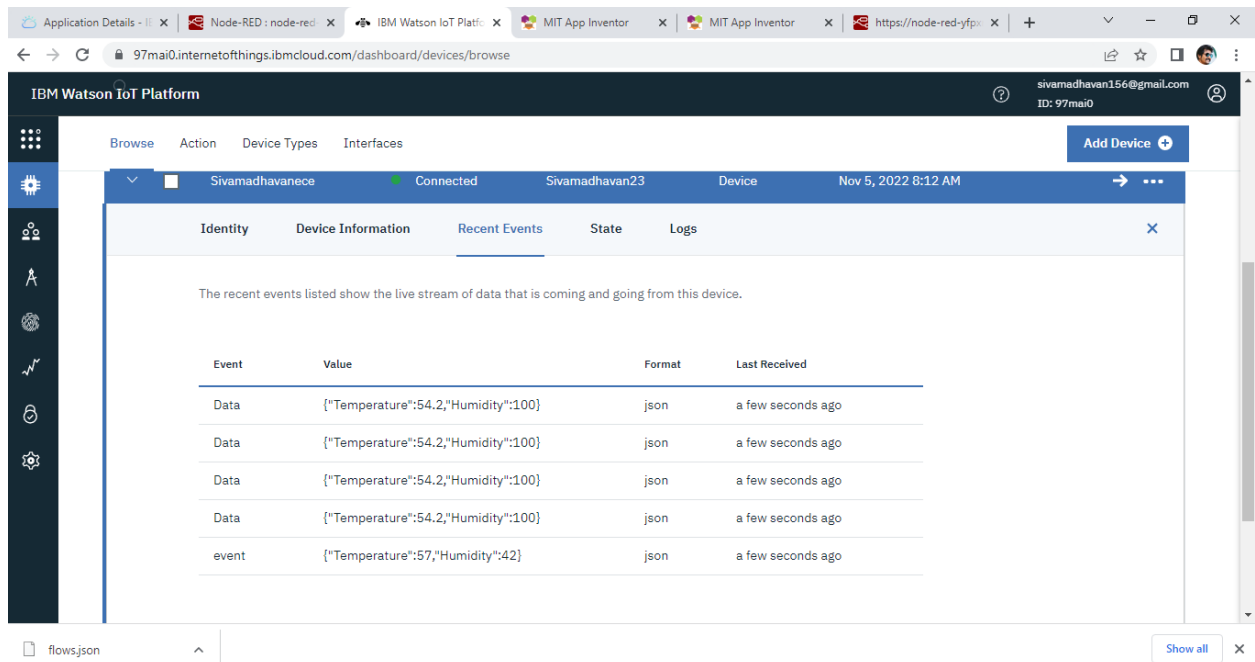


The Wokwi IDE interface shows a sketch for an ESP32 connected to a DHT22 sensor. The sketch code is as follows:

```
109 }
110 Serial.println("");
111 Serial.println("WiFi connected");
112 Serial.println("IP address: ");
113 Serial.println(WiFi.localIP());
114 }
115
116 void initManagedDevice() {
117   if (client.subscribe(subscribetopic)) {
118     Serial.println(subscribetopic);
119     Serial.println("subscribe to cmd OK");
120   } else {
121     Serial.println("subscribe to cmd FAILED");
122   }
123 }
124
125 void callback(char* subscribetopic, byte* payload, unsigned int payloadLength)
126 {
127   Serial.print("callback invoked for topic: ");
128   Serial.println(subscribetopic);
129   for (int i = 0; i < payloadLength; i++) {
130     //Serial.print((char)payload[i]);
131     data3 += (char)payload[i];
132   }
133
134   Serial.println("data: " + data3);
135   if(data3=="lighton")
136   {
137     Serial.println(data3);
138   }
```

The simulation on the right shows the ESP32 and DHT22 sensor connected. The terminal output displays the following data:

```
Humidity:100.00
Sending payload: {"Temperature":54.20,"Humidity":100.00}
Publish ok
Temperature:54.20
Humidity:100.00
Sending payload: {"Temperature":54.20,"Humidity":100.00}
Publish ok
```



The IBM Watson IoT Platform dashboard shows a device named 'Sivamadhavan23' with the following details:

- Device Name: Sivamadhavan23
- Status: Connected
- Device Type: Sivamadhavanece
- Device ID: 97mai0
- Last Seen: Nov 5, 2022 8:12 AM

The 'Recent Events' tab shows a list of events:

Event	Value	Format	Last Received
Data	{"Temperature":54.2,"Humidity":100}	json	a few seconds ago
Data	{"Temperature":54.2,"Humidity":100}	json	a few seconds ago
Data	{"Temperature":54.2,"Humidity":100}	json	a few seconds ago
Data	{"Temperature":54.2,"Humidity":100}	json	a few seconds ago
event	{"Temperature":57,"Humidity":42}	json	a few seconds ago