

sketch.ino • diagram.json libraries.txt Library Manager ▾

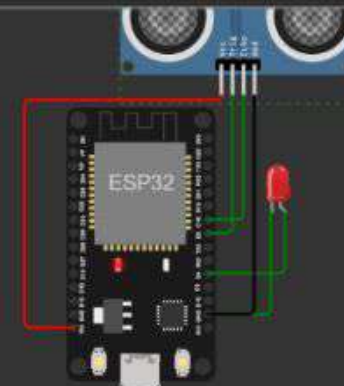
```
1 #include <WiFi.h>
2 #include <PubSubClient.h>
3
4 void callback(char* subscribtopic, byte* payload, unsigned int payloadLength);
5
6 //-----IBM Credentials-----//
7
8 #define ORG "3747gc"//IBM ORGANITION ID
9 #define DEVICE_TYPE "kaiser"//Device type mentioned in ibm watson IOT Platform
10 #define DEVICE_ID "esp32"//Device ID mentioned in ibm watson IOT Platform
11 #define TOKEN "12345678" //Token
12 String sub_data;
13 float distance;
14
15 //-----Server Setup-----//
16
17 char server[] = ORG ".messaging.internetofthings.ibmcloud.com";// Server Name
18 char publishTopic[] = "iot-2/evt/Data/fmt/json";// topic name and type of event perform
19 char subscribtopic[] = "iot-2/cmd/test/fmt/String";// cmd REPRESENT command type AND
20 char authMethod[] = "use-token-auth";// authentication method
21 char token[] = TOKEN;
22 char clientId[] = "d:" ORG ":" DEVICE_TYPE ":" DEVICE_ID;//client id
23
24
25 //-----Main Code-----//
26 WiFiClient wificlient; //Ceating instance for Wif
27 PubSubClient client(server, 1883, callback , wificlient); //mqtt Client
28
29 int Led = 4;
30 int trig = 5;
31 int echo = 18;
32
33 void setup() {
34   Serial.begin(115200);
```

Simulation

00:30.669 106%



Editing Ultrasonic Distance Sensor

Distance: 

Publish OK

Distance in Cm = 292.53

No Object Found

Sending payload: {"Distance":292.53,"object":"No Object"}

Publish OK

WOKWI

SAVE

SHARE

Docs

sketch.ino

diagram.json

libraries.txt

Library Manager

```
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28
29 int led = 4;
30 int trig = 5;
31 int echo = 18;
32
33 void setup() {
34     pinMode(trig, OUTPUT);
35     pinMode(echo, INPUT);
36     pinMode(led, OUTPUT);
37 }
```

Simulation

01:18.594 100%

Editing Ultrasonic Distance Sensor

Distance: 50cm

Publish OK

Distance in Cm = 50.40

Object is Near

Sending payload: {"Distance":50.40,"object":"Near"}

Publish OK

[Browse](#) [Action](#) [Device Types](#) [Interfaces](#)[Add Device](#)   **esp32**  **Connected** **kaiser**  [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
Data	{"Distance":292.53,"object":"No Object"}	json	a few seconds ago
Data	{"Distance":292.53,"object":"No Object"}	json	a few seconds ago
Data	{"Distance":292.53,"object":"No Object"}	json	a few seconds ago
Data	{"Distance":295.53,"object":"No Object"}	json	a few seconds ago
Data	{"Distance":281.43,"object":"No Object"}	json	a few seconds ago

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[Browse](#) [Action](#) [Device Types](#) [Interfaces](#)[Add Device](#)   **esp32**  **Connected** **kaiser**  [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
Data	{"Distance":50.42,"object":"Near"}	json	a few seconds ago
Data	{"Distance":50.42,"object":"Near"}	json	a few seconds ago
Data	{"Distance":50.42,"object":"Near"}	json	a few seconds ago
Data	{"Distance":50.42,"object":"Near"}	json	a few seconds ago
Data	{"Distance":50.39,"object":"Near"}	json	a few seconds ago

Items per page 50 | 1-1 of 1 item

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