

# ESP32 MQTT Connection

## Jude's Code

ESP32\_MQTT\_Jude\_V001.ino

```
#include <WiFi.h>
#include <PubSubClient.h>

// WiFi
const char *ssid = "iotlab"; // ssid
const char *password = "iotlab18"; //WiFi password

// MQTT Broker
const char *mqtt_broker = "broker.emqx.io";
const char *topic = "amc2022/group5";
const char *mqtt_username = "emqx";
const char *mqtt_password = "public";
const int mqtt_port = 1883;

WiFiClient espClient;
PubSubClient client(espClient);

void setup() {
  // Set software serial baud to 115200;
  Serial.begin(115200);
  // connecting to a WiFi network
  WiFi.begin(ssid, password);
  while (WiFi.status() != WL_CONNECTED) {
    delay(500);
    Serial.println("Connecting to WiFi..");
  }
  Serial.println("Connected to the WiFi network");
  //connecting to a mqtt broker
  client.setServer(mqtt_broker, mqtt_port);
  client.setCallback(callback);
  while (!client.connected()) {
    String client_id = "esp32-client-";
    client_id += String(WiFi.macAddress());
    Serial.printf("The client %s connects to the public mqtt
broker\n", client_id.c_str());
    if (client.connect(client_id.c_str(), mqtt_username,
mqtt_password)) {
      Serial.println("Public emqx mqtt broker connected");
    } else {
      Serial.print("failed with state ");
      Serial.print(client.state());
      delay(2000);
    }
  }
}
```

```
    }  
}  
  
// publish and subscribe  
client.publish(topic, "Hi EMQX I'm ESP32 ^^");  
client.publish(topic, "Hi My name is Bambo Jude ^^");  
client.publish(topic, "Hey Suleman!!!!");  
  
client.subscribe(topic);  
}  
  
void callback(char *topic, byte *payload, unsigned int length) {  
    Serial.println("Message arrived in topic: ");  
    Serial.println(topic);  
    Serial.println("Message:");  
    for (int i = 0; i < length; i++) {  
        Serial.print((char) payload[i]);  
    }  
    Serial.println();  
    Serial.println("-----");  
}  
  
void loop() {  
    client.loop();  
}
```

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