

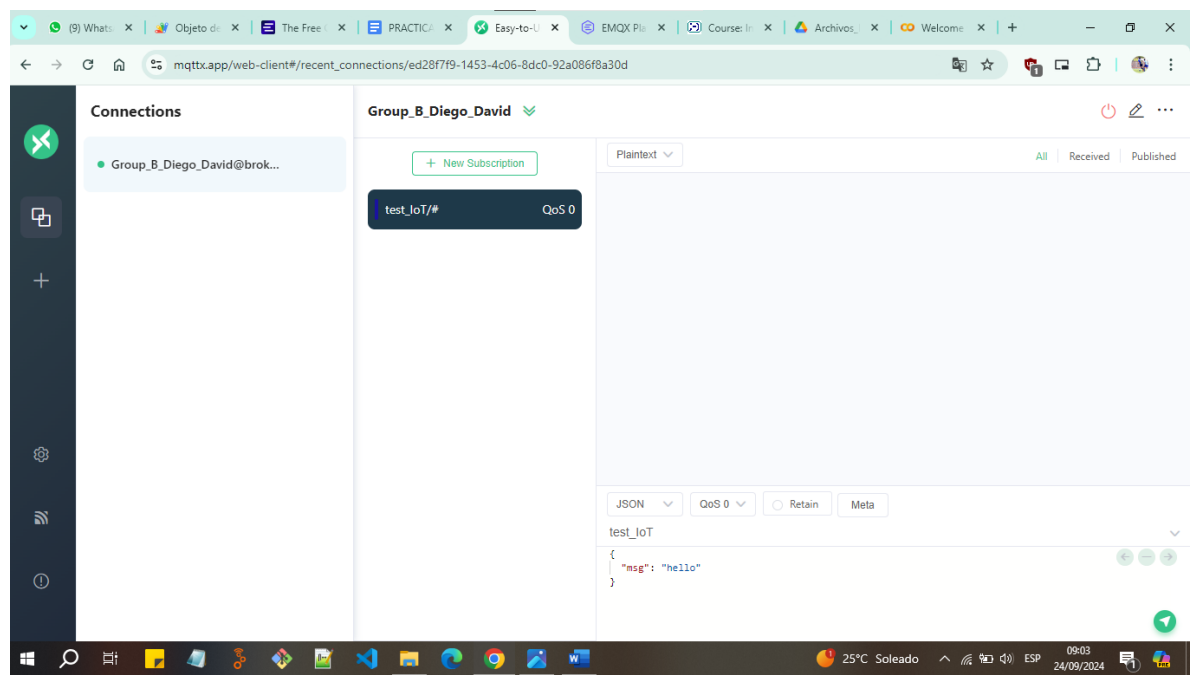
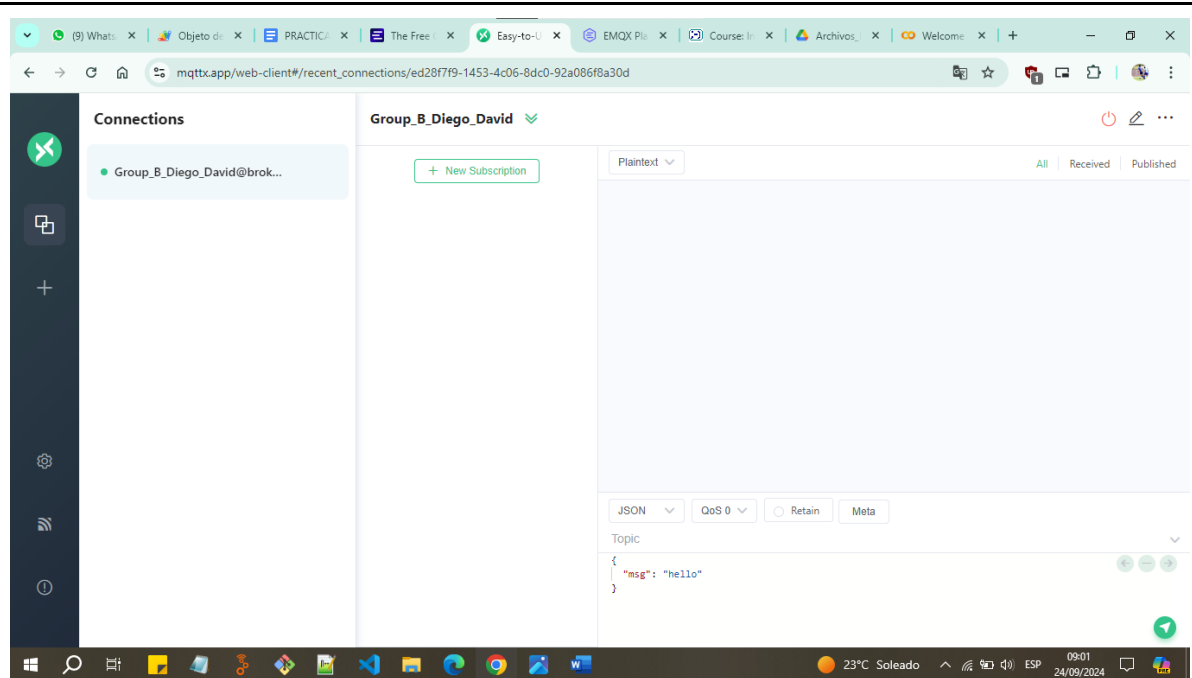
EVIDENCIAS PRACTICA 1

PRIMER MÓDULO MQTT

Integrantes: David Florez (2174241) y Diego García (2195533)

Fecha: 24/09/2024

Actividad 1: Conexión servidor



Actividad 2: Envío de mensajes

Se envían mensajes al broker **CanalloT24Sep/#**:

The screenshot shows the MQTT Explorer interface. On the left, the 'Connections' panel lists 'Group_B_Diego_David@brok...'. The main panel is titled 'Group_B_Diego_David' and shows two subscriptions: 'test_IoT/#' and 'CanalloT24Sep/#', both with 'QoS 0'. The 'CanalloT24Sep/#' subscription is selected. The message history shows two messages received on this topic, both with 'QoS: 0'. The first message, received at 2024-09-24 09:11:09:796, has a payload of `{ "msg": "Hola, soy Diego y David, del grupo B" }`. The second message, received at 2024-09-24 09:11:29:259, has the same payload. Below the history, the 'test_IoT/' topic is selected, showing a message with payload `{ "msg": "Hola, soy Diego" }`. The bottom status bar shows the system time as 09:13 on 24/09/2024.

Ahora se envían mensajes a un broker creado con mi compañero de grupo:

The screenshot shows the MQTT Explorer interface. On the left, the 'Connections' panel lists 'Group_B_Diego_David@brok...'. The main panel is titled 'Group_B_Diego_David' and shows two subscriptions: 'test_IoT/#' and 'CanalloT24Sep/#', both with 'QoS 0'. The 'test_IoT/#' subscription is selected. The message history shows two messages received on this topic, both with 'QoS: 0'. The first message, received at 2024-09-24 09:12:29:967, has a payload of `{ "msg": "Hola, soy Diego" }`. The second message, received at 2024-09-24 09:12:29:836, has a payload of `{ "msg": "HOLA soy DAVID XD" }`. Below the history, the 'test_IoT/' topic is selected, showing a message with payload `{ "msg": "Hola, soy Diego" }`. The bottom status bar shows the system time as 09:14 on 24/09/2024.

Actividad 3: publicador python

Connections

Group_B_Diego_David

+ New Subscription

test_IoT/# QoS 0

CanalloT24Sep/# QoS 0

Plaintext

All Received Published

"msg": "Buen dia, Carlos"

2024-09-24 09:15:28:683

Topic: CanalloT24Sep/ QoS: 0

"msg": "Henry Cortés, Oscar Mateus"

2024-09-24 09:15:33:437

Topic: test_IoT/ QoS: 0

Hola, soy Diego y David desde Google Collab!!

2024-09-24 09:25:44:469

JSON QoS 0 Retain Meta

test_IoT/

{ "msg": "Hola, soy Diego" }

Actividad 4: suscriptor python

EMQX_Diego_David.ipynb

File Edit View Insert Runtime Tools Help

+ Code + Text

```
print('Se ha conectado al Broker MQTT y el resultado tiene código: '+str(rc))
# Suscribirse al topico
client.subscribe('test_IoT/')
# llamada en caso de recibir un mensaje
def al_llegar_mensaje(client, userdata, msg):
    print(msg.topic+" "+str(msg.payload))

client = mqtt.Client("misegundaconexcion")

# Especificación para los callbacks
client.on_connect = al_conectarse
client.on_message = al_llegar_mensaje

# Establecimiento de una conexion
client.connect('broker.emqx.io', 1883, 60)

client.loop_forever()
```

Se ha conectado al Broker MQTT y el resultado tiene código: 0

test_IoT/ b'{ "msg": "Hola, soy Diego\\n" }

Executing (29s) <cell line: 26> > loop_forever() > loop()