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Scripts

Web Camera Device

Laptop Device

```
import paho.mqtt.client as mqtt
import base64

BROKER_IP = "192.168.0.158"
CAPTURE_TOPIC = "capture/request"
IMAGE_TOPIC = "camera/image"
SAVE_PATH = "received_image.jpg"

# MQTT callback to receive the image
def on_message(client, userdata, message):
    if message.topic == IMAGE_TOPIC:
        print("Received image. Saving...")

# Decode and save image
    image_data = base64.b64decode(message.payload)
    with open(SAVE_PATH, "wb") as img_file:
        img_file.write(image_data)

        print(f"Image saved as {SAVE_PATH}")

# Send capture request
client = mqtt.client()
client.on_message = on_message
client.connect(BROKER_IP, 1883)

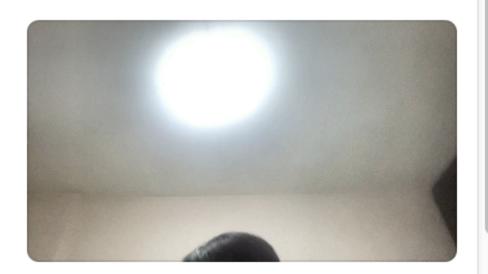
# Subscribe to receive the image
client.subscribe(IMAGE_TOPIC)
print("Laptop waiting for image...")
#client.loop_forever()
```

```
client.loop_start()
while True:
    a = input("Press enter to snap some spicy pics:")
    if a == 'q':
        client.loop_stop()
        break
    # Publish capture request
    client.publish(CAPTURE_TOPIC, "Capture now")
    print("Capture request sent.")
```

Images

Laptop received image

| commander.py | Today at 5:26 PM | |
|--------------------|------------------|----|
| mosquitto.conf | Today at 4:53 PM | 34 |
| received_image.jpg | Today at 5:24 PM | 19 |
| | | |



received image ind

Sample console output

Just press enter to send capture request

```
Press enter to snap some spicy pics:
Capture request sent.
Press enter to snap some spicy pics:Received image. Saving...
Image saved as received_image.jpg
```