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# MQTT

## Mosquitto

```
mosquitto_passwd -c /etc/mosquitto/pwdfile user
```

```
allow_anonymous false  
password_file /etc/mosquitto/pwdfile
```

...  
configure websocket

```
listener 8083  
protocol websockets  
certfile /etc/letsencrypt/live/mqtt.example.com/cert.pem  
cafile /etc/letsencrypt/live/mqtt.example.com/chain.pem  
keyfile /etc/letsencrypt/live/mqtt.example.com/privkey.pem
```

## QoS

Level	
QoS 0 - at most once	There is no guarantee of delivery
QoS 1 - at least once	Message is delivered at least one time
QoS 2 - exactly once	Safest and slowest quality of service level

## Bash MQTT RaspberryPI

Install client libraries

```
apt install mosquitto-clients
```

```
#!/bin/bash  
#####  
cd /tmp  
host=10.0.0.1  
user=user  
pass=pass  
topic=zavora  
p=/tmp/pipe  
pin=2  
rm $p  
  
if [ ! -f /sys/class/gpio/gpio$pin/value ]; then  
echo "$pin" > /sys/class/gpio/export  
fi
```

```
echo "out" > /sys/class/gpio/gpio$pin/direction
echo "1" > /sys/class/gpio/gpio$pin/value

mkfifo $p
(mosquitto_sub -h $host -u $user -P $pass -t $topic >$p 2>/dev/null) &
while read line <$p
do
  echo $line > /tmp/cmds
  if grep -q "0N" /tmp/cmds; then
    echo "0" > /sys/class/gpio/gpio$pin/value
    sleep 0.7
    echo "1" > /sys/class/gpio/gpio$pin/value
    date >>/var/log/open.log
  fi
done
```

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