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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 $line > /tmp/cmds
  if grep -q "ON" /tmp/cmds; then
    echo "0" > /sys/class/gpio/gpio$pin/value
    sleep 0.7
    echo "1" > /sys/class/gpio/gpio$pin/value
    date >>/var/log/open.log
  fi
done
```

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