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# MQTT

## Mosquitto

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

```
allow_anonymous false
password_file /etc/mosquitto/pwdfilename
```

...  
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=/test/open
pin_a=2
pin_b=3

if [ ! -f /sys/class/gpio/gpio$pin_a/value ]; then
echo "$pin_a" > /sys/class/gpio/export
fi
echo "out" > /sys/class/gpio/gpio$pin_a/direction
echo "1" > /sys/class/gpio/gpio$pin_a/value

if [ ! -f /sys/class/gpio/gpio$pin_b/value ]; then
echo "$pin_b" > /sys/class/gpio/export
fi
echo "out" > /sys/class/gpio/gpio$pin_b/direction
echo "1" > /sys/class/gpio/gpio$pin_b/value
#####

while true
do
```

```
rm -f /tmp/cmds
mosquitto_sub --remove-retained -i 10.0.0.254 -C 1 -h $host -u $user -P $pass -t $topic
>/tmp/cmds

if grep -q "employee" /tmp/cmds; then
echo "0" > /sys/class/gpio/gpio$pin_a/value
fi

if grep -q "corporate" /tmp/cmds; then
echo "0" > /sys/class/gpio/gpio$pin_a/value
echo "0" > /sys/class/gpio/gpio$pin_b/value
fi

date >>/var/log/open.log
sleep 2
echo "1" > /sys/class/gpio/gpio$pin_a/value
echo "1" > /sys/class/gpio/gpio$pin_b/value
sleep 4
done
```

From:

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Last update: **2022/02/15 14:57**

