Chesapeake & Midlantic Marketing
Pro Services Tech Tips

MQTT: Three Easy Pieces

Message Queuing Telemetry
Transport

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MQTT: What is it?

MQTT is a lightweight open messaging protocol:

- Developed for constrained environments such as M2M, IoT , and Home Automation
- Used where a small code footprint is required

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MQTT: 3 Easy Pieces!

Part	*What it does*	*Example*
Publisher	Sends a message	Bosch camera reports an event
Broker	Receives messages and distributes them	Mosquitto running on your PC
Subscriber	Listens for selected messages	MQTT Explorer or an automation application

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MQTT: IQSIGHT Cameras

Capability	*What the camera can report*
Motion alarms	Motion or IVA alarm triggered
Intrusion events	Line crossing, entering/leaving an area, loitering
Object events	Idle or removed objects
Counting	Line-crossing counts and occupancy counts
Tamper detection	Changed/obstructed view; image too bright or dark
Physical inputs/outputs	Digital input and relay state changes, where fitted
Recording	Recording-start notification; the documented implementation does not report stops or recording errors

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MQTT: Lab Testing Setup

For this lab we will be using the following:

Publisher= IQSIGHT Camera

Broker = Mosquitto

Subscriber= MQTT Explorer

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MQTT: Mosquitto Setup

After downloading and installing Mosquitto navigate to:

- C:\Program Files\Mosquitto

- Locate the Mosquitto.conf file and open with notepad

Under the “Listener” Section

- Remove the comment Asterix and add port 1883

```
#
# listener port-number [ip address/host name/unix socket path]
listener 1883
```

Under the “Security” Section

- Change “allow_anonymous” to true

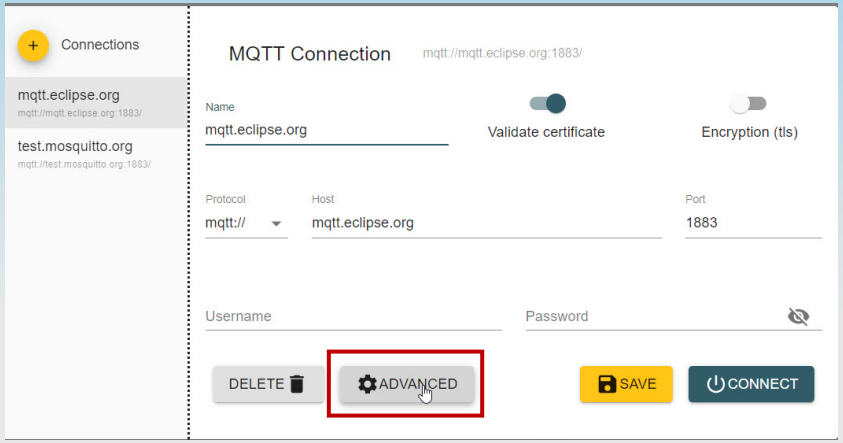
```
# Defaults to false, unless there are no listeners defined in the configuration
# file, in which case it is set to true, but connections are only allowed from
# the local machine.
allow_anonymous true
```

After saving perform a “net stop” and a “net start” of the service

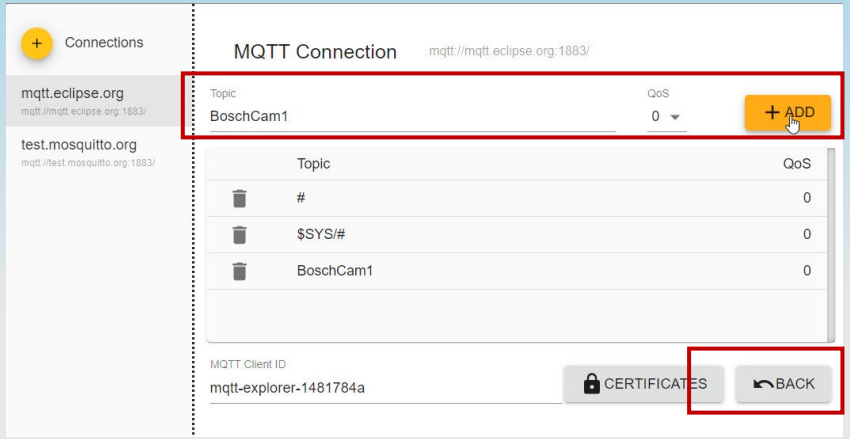
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MQTT: MQTT Explorer

After downloading and installing MQTT Explorer launch the application



Select “Advanced”

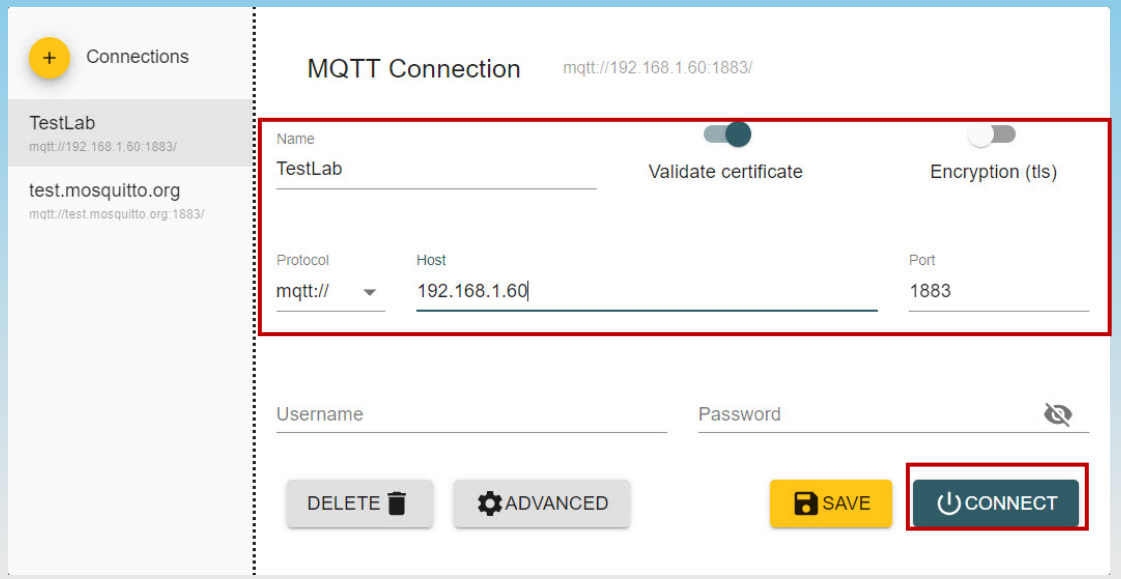


Add a topic named “BoschCam1”

- Then Select “Back”

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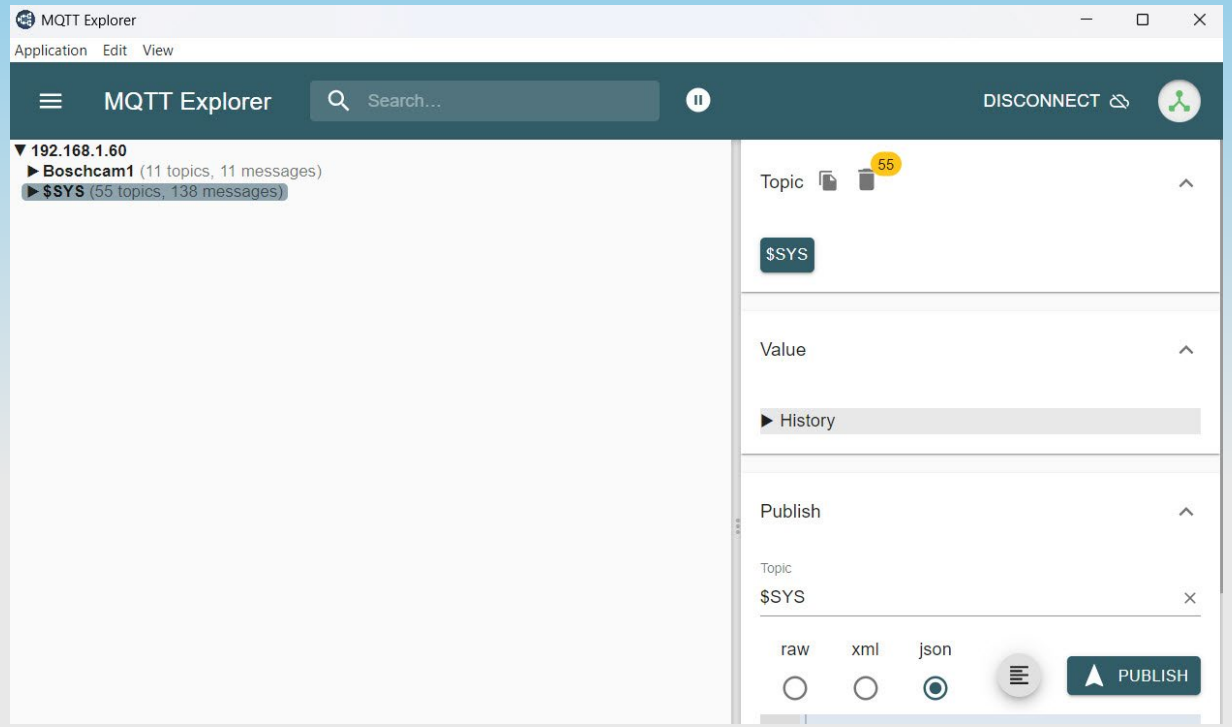
MQTT: MQTT Explorer



- Connection Name= “TestLab”
- Protocol= mqtt:// host= IP address of Mosquitto port =1883
- Select Connect!

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MQTT: MQTT Explorer

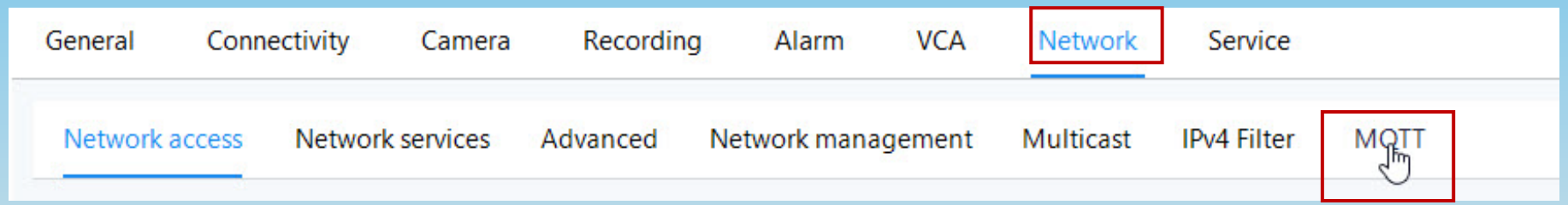


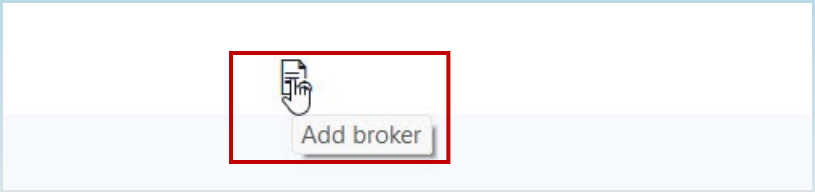
MQTT Explorer should connect to your Mosquitto Broker!

If Connection Fails, create a Firewall rule for inbound traffic port 1883

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MQTT: IQSIGHT Camera



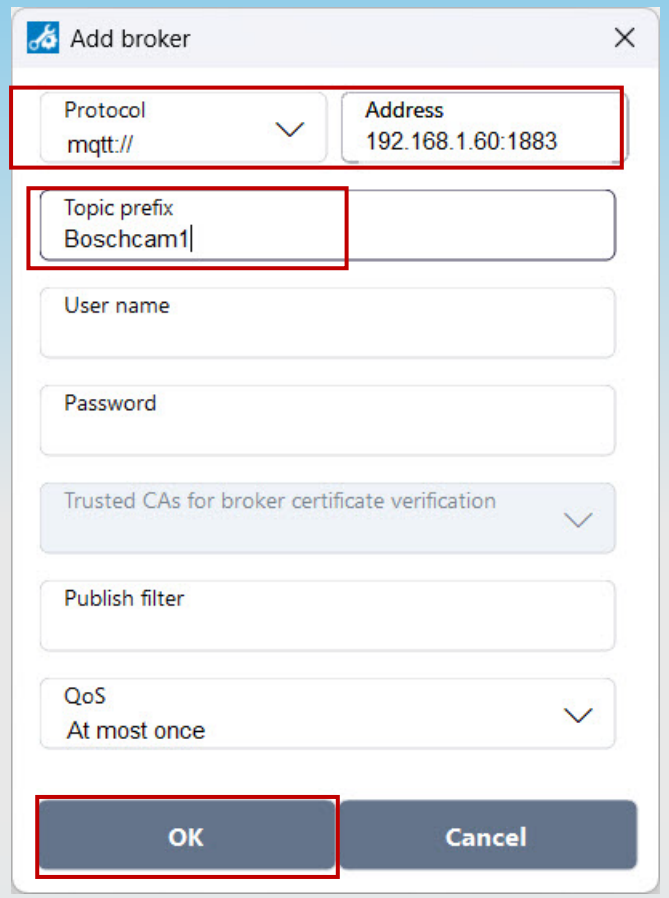


In Configuration Manager select the cameras Network and MQTT submenu

- Select the “Add broker” icon

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MQTT: IQSIGHT Camera



From the “Add broker” menu:

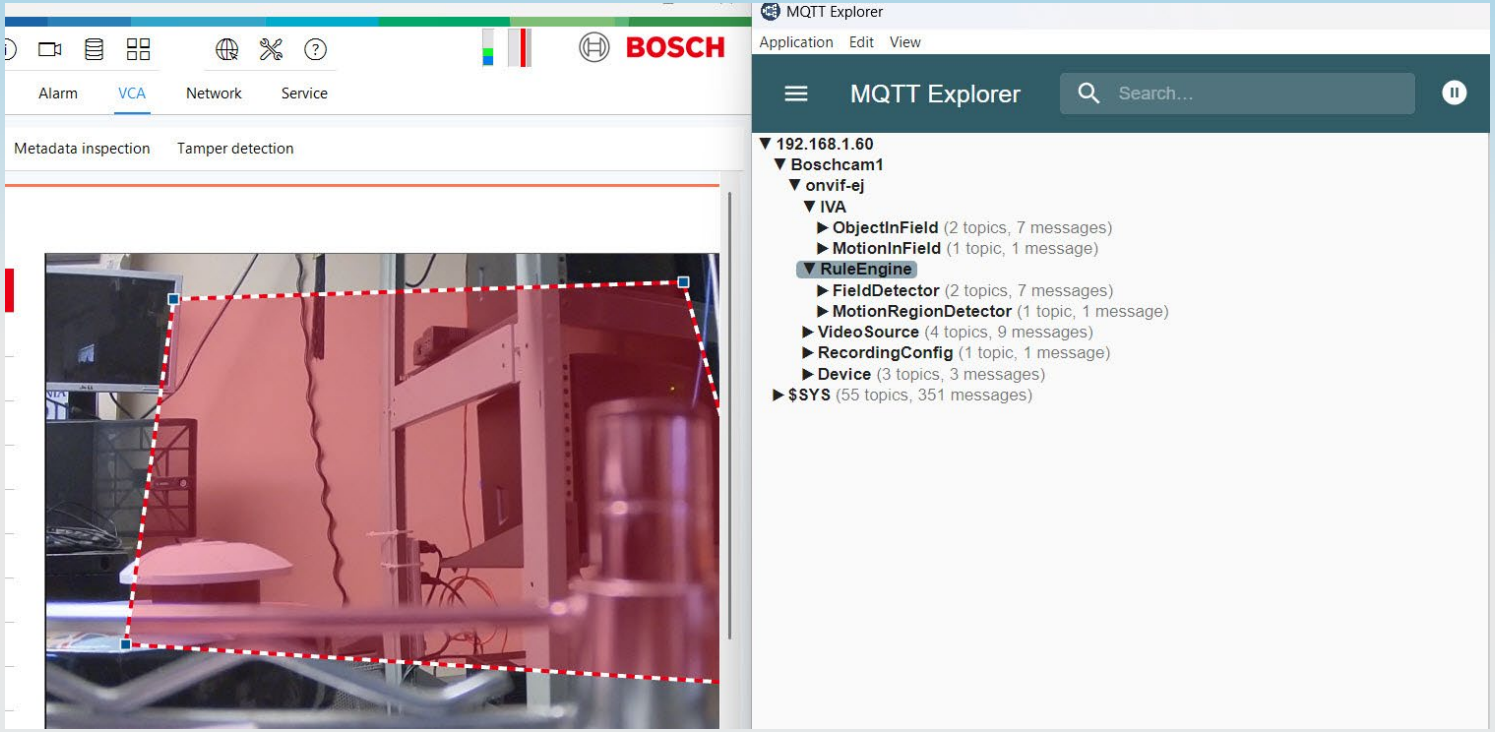
- Protocol = mqtt://
- Address= “IP of Mosquitto server:port”
- Topic = Boschcam1
- Select OK

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MQTT: IQSIGHT Camera

Qualified configured events will now register in the MQTT Explorer

- This mean the camera is communication and send events to the Mosquitto Server!



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Thank You

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