

MQTT-Tutorial

A Light-weight Communication Protocol



Mosquitto - A MQTT Broker



- Download the Broker- Mosquitto
 - <https://mosquitto.org/download/>
- Install the software in any directory, call it MQTT_HOME
- Open the command prompt and change the root directory to MQTT_HOME

Setting up MQTT Broker



- Type the following command to start broker
 >_mosquitto.exe

MQTTLens- A Desktop MQTT Client



- Open Google Chrome. Go to- <https://chrome.google.com/webstore/>
- Search for – mqttlens
- Install the extension, then open it

[Home](#) > [Extensions](#) > MQ TT Lens The Best



MQ TT Lens The Best

Offered by: fostikova.kristina

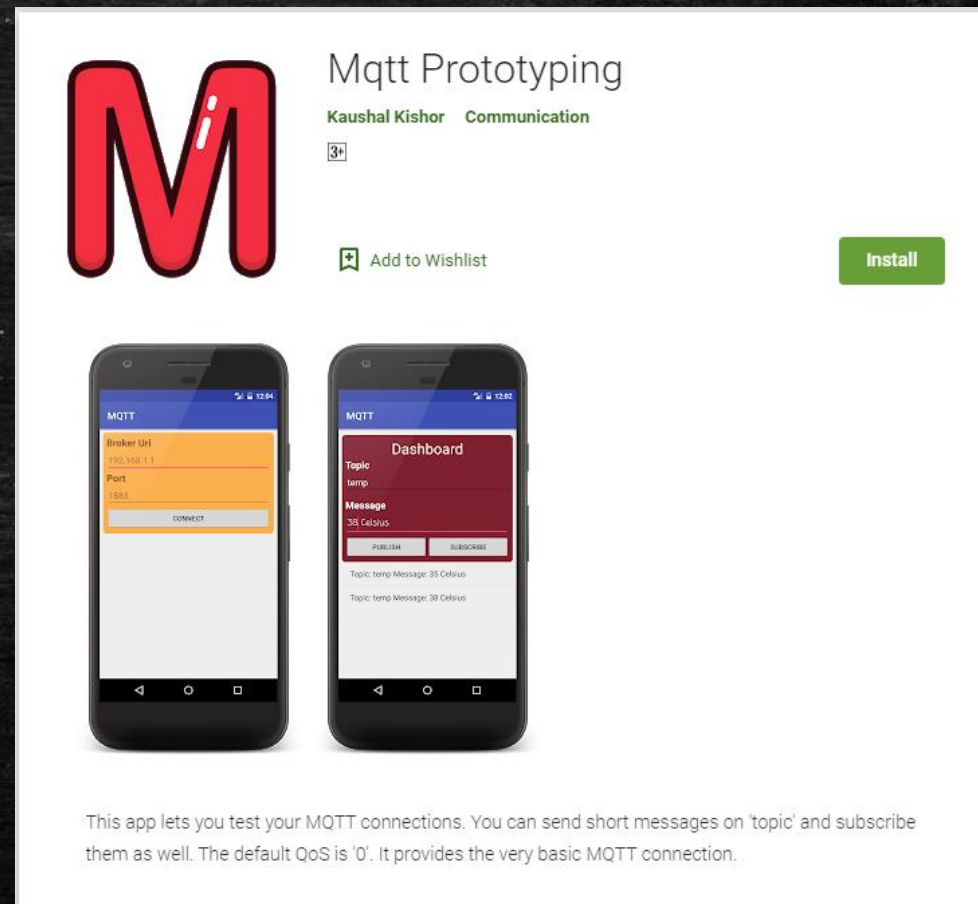
★★★★★ 8 | [Accessibility](#) | 👤 2,000+ users

Remove from Chrome

MQTTPrototyping- A Mobile MQTT Client



- Open Google Play Store, search for – MQTTPrototyping
- Install the App



Set up MQTTLens

- Create a new connection
- For quick start, fill only the highlighted inputs
- Click on 'Create Connection'

Add a new Connection

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Connection Details

Connection name

Eclipse MQTT

Connection color scheme

Hostname

tcp://

e.g. iot.eclipse.org

Port

1883

Client ID

lens_O3kLTHxiKpS3Gleqlqcy5E3loCD

Generate a random ID

Session

☒ Clean Session

Automatic Connection

☒ Automatic Connection

Keep Alive

120

seconds

Credentials

Username

Enter username

Password

Enter password

Last-Will

▼

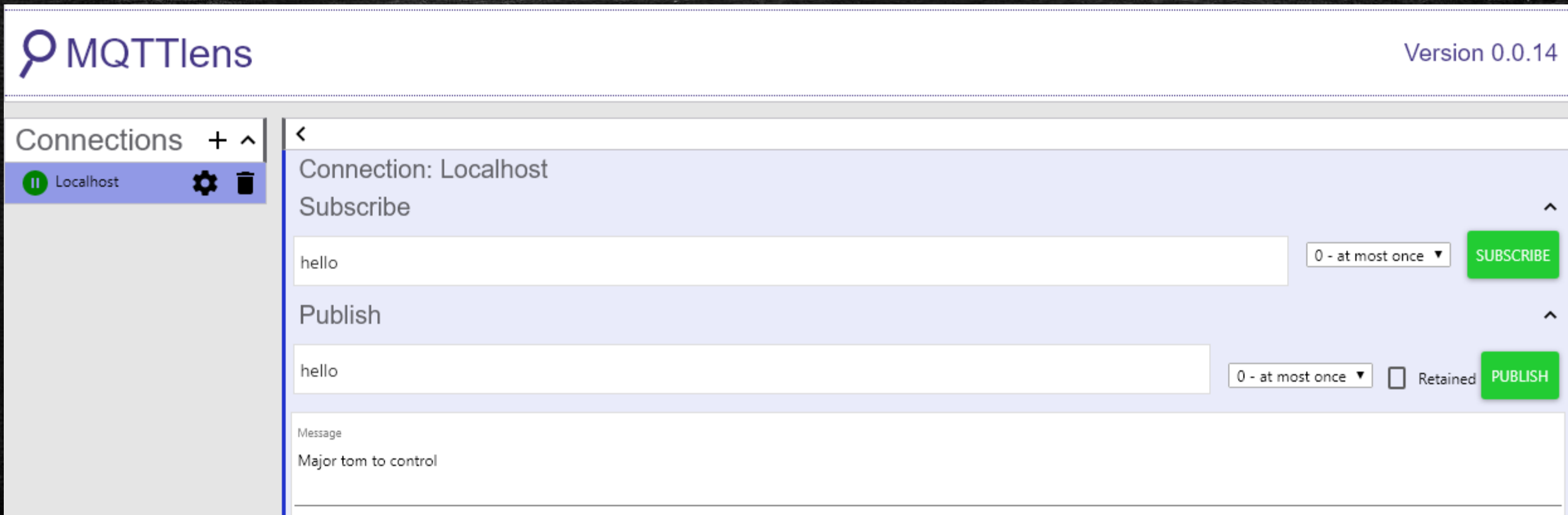
CANCEL

CREATE CONNECTION

Set up MQTTLens



- A successful connection will look like this-



Subscribing to Topic



- Type the topic name and hit 'SUBSCRIBE' button

The screenshot shows the MQTTlens web interface. On the left, a sidebar titled 'Connections' shows a single connection to 'Localhost' with a green status icon, a settings gear, and a delete trash icon. The main area is titled 'Connection: Localhost' and has a 'Subscribe' section. In this section, a text input field contains the topic 'hello', which is highlighted with a yellow border. To the right of the input is a dropdown menu set to '0 - at most once'. Further right is a green 'SUBSCRIBE' button, also highlighted with a yellow border. Below the 'Subscribe' section is a 'Publish' section with another text input field containing 'hello', a similar dropdown menu, a 'Retained' checkbox, and a green 'PUBLISH' button. At the bottom, a 'Message' section displays the text 'Major tom to control'.

Publishing to Topic



- Type to the topic to publish messages, then type your msg and hit publish button

The screenshot displays the MQTTlens web application interface. At the top left is the MQTTlens logo, and at the top right is the version number "Version 0.0.14". On the left side, there is a "Connections" panel with a plus and up arrow icon, and a "Localhost" connection listed with a green status icon, a settings gear, and a trash can. The main area is divided into two sections: "Subscribe" and "Publish". The "Subscribe" section has a text input field containing "hello", a dropdown menu set to "0 - at most once", and a green "SUBSCRIBE" button. The "Publish" section has a text input field containing "hello", a dropdown menu set to "0 - at most once", a checkbox for "Retained" which is unchecked, and a green "PUBLISH" button. A large yellow rectangular highlight box is drawn around the "Publish" section, specifically enclosing the message input field and the "PUBLISH" button. Below the "Publish" section is a "Message" area containing the text "Major tom to control".

Experiment

- Try subscribing to other topics
- Try publishing to those topics
- Try using wildcards in topics
- Check Mobile App for the same

