Easy MQTT automation with trivum

MQTT automation with trivum

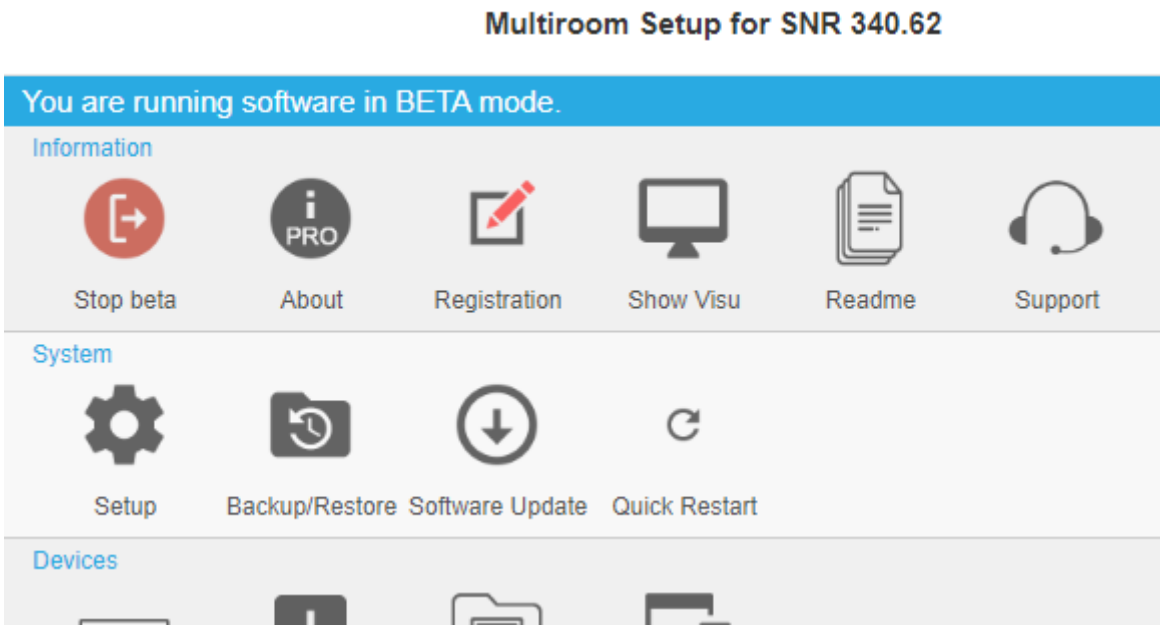
trivum technologies GmbH <info@trivum.com> v1.0, 2024-01-18 :title-logo-image: image::../images/trivum-logo.svg[pdfwidth=150,align=right]

1. Install an MQTT broker, for example on the Raspi

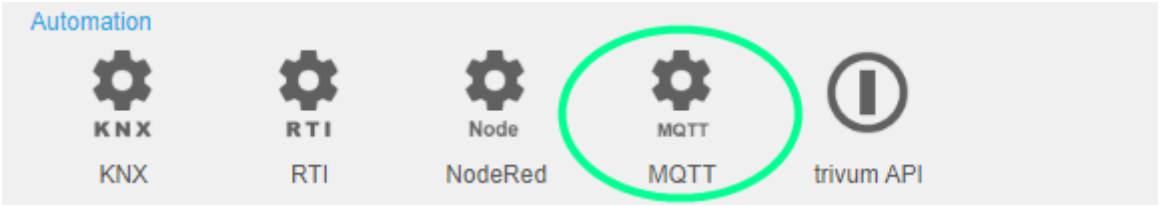
```
sudo apt-get install -y mosquitto mosquitto-clients
```

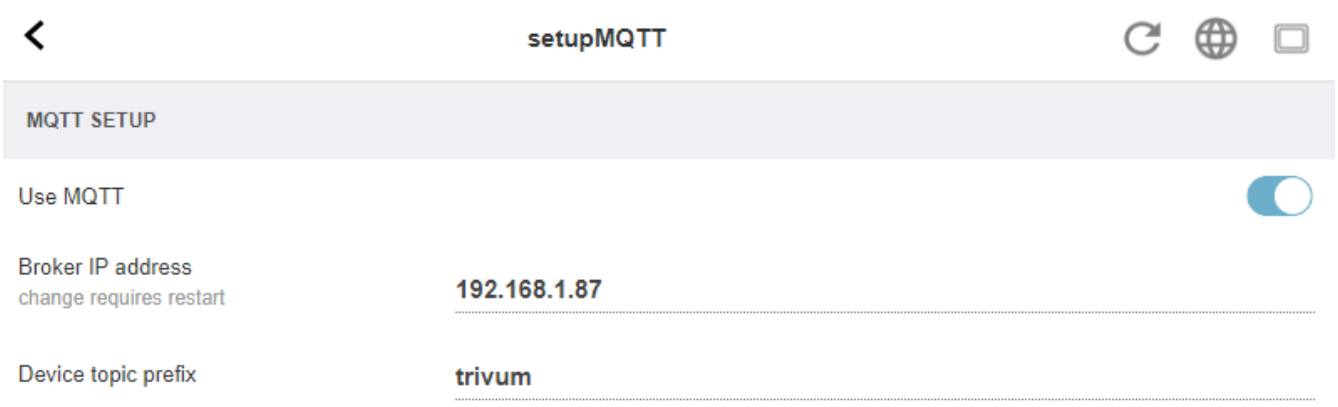
2. Send MQTT messages from trivum to the broker

- go into the trivum web configuration by typing `<trivumip>/beta` into your web browser, which also enables Beta features.



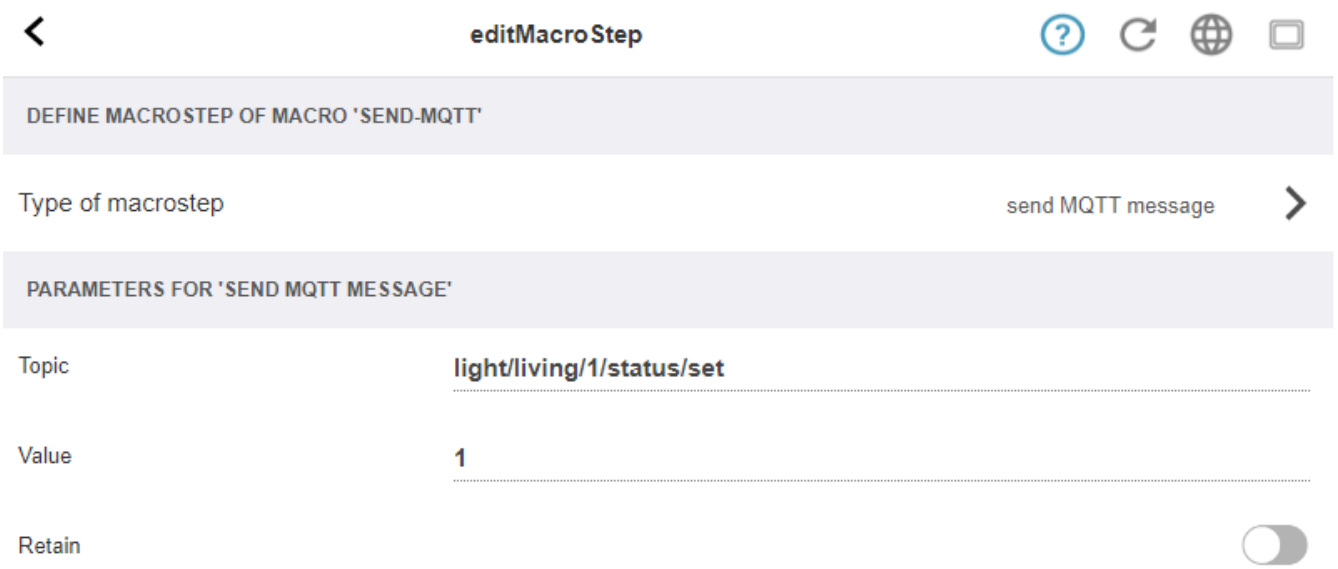
- enable MQTT under: **Automation / MQTT**



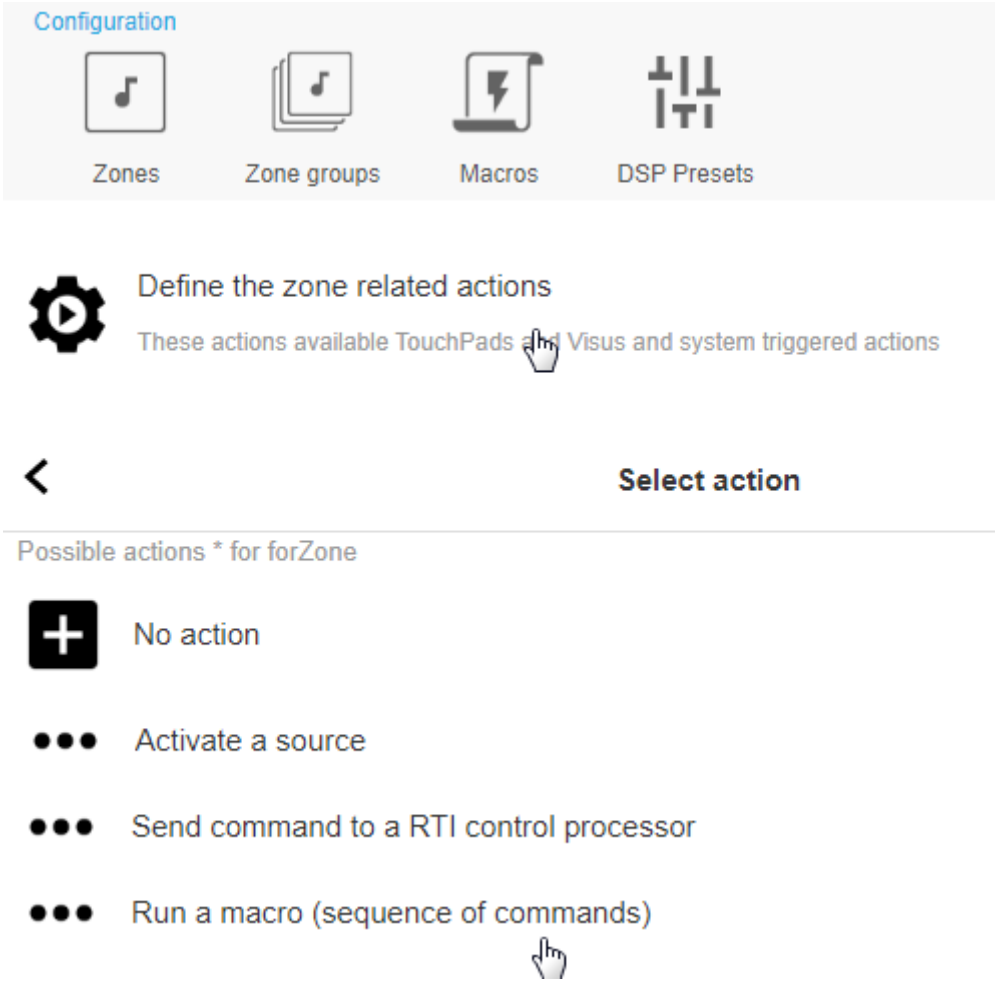


Enter the IP of your broker (Raspi). Keep the topic prefix. (trivum)

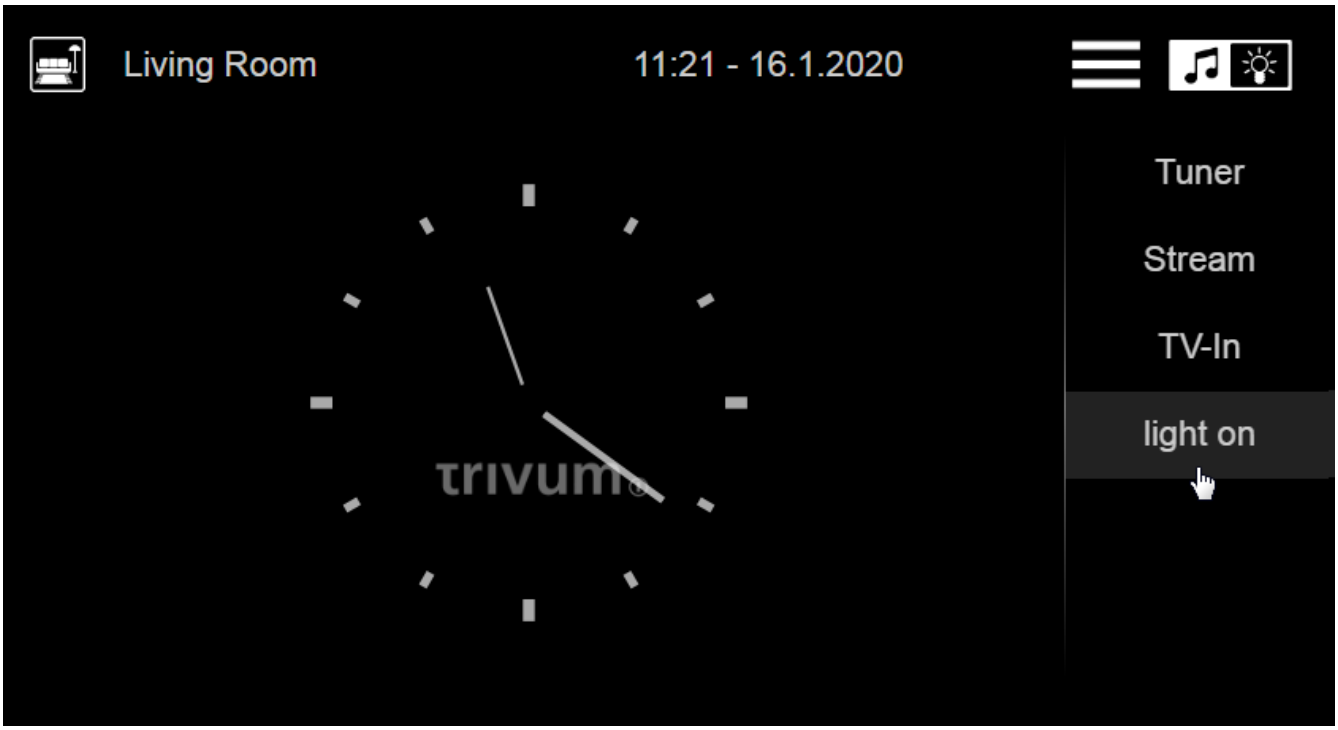
- create a Macro under: **Configuration** / **Macros** with a step: **send MQTT message**



- create a zone action under: **Configuration** / **zones** / **first zone** / **define actions**
  With action: run a macro, then select the above macro.



- open a web visualization:
  In your web browser, open a new tab. Type the IP of trivum. Now you have a web visualization.



On first use it will control the first zone. At the right, the macro action appears.

- click or touch on the macro action. It will send the MQTT message.

Test receive directly on the Raspi like:

```
mosquitto_sub -h localhost -v -t "light/#"
```

which will show:

```
light/living/1/status/set 1
```

3. Control trivum by MQTT messages

In the trivum web configuration, a device topic prefix can be configured, which is **trivum** by default.

The trivum device then listens on these topics:

```
trivum/zone/1/status      - get status of first zone
trivum/zone/1/status/set  - set status of first zone
```

The zone status is an integer with these possible values:

```
0     - zone off
1     - zone on (audible)
2     - zone is muted (on but not audible)
```

So, if zone 1 is switched on or off, trivum sends `trivum/zone/1/status` with value 1 or 0.

To switch zone 1 on or off, send `trivum/zone/1/status/set` with value 1 or 0.