# **MQTT Hands-On Cheat Sheet**

#### Code repository:

https://github.com/relayr/ESP8266\_Lua - USE 'WORKSHOP' BRANCH

# Toolchain and prerequisites:

- Install the USB to UART driver: http://www.wemos.cc/downloads/
- Install the esptool: https://github.com/themadinventor/esptool ('pip install esptool')
- 3. Build / download the firmware: <a href="http://nodemcu-build.com/">http://nodemcu-build.com/</a> or use the one provided in the repository.
- 4. Flash the Wemos with the firmware:

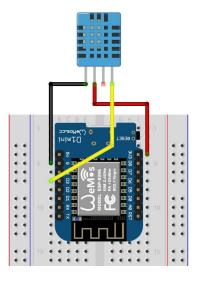
esptool.py --port /dev/ttyUSB0 write\_flash -fm dio -fs 32m -ff 40m 0x00000 /path/to/firmware.bin

- Download the Esplorer IDE http://esp8266.ru/esplorer/
- 6. Create a relayr developer account: <a href="https://dev.relayr.io/">https://dev.relayr.io/</a>
- 7. Create a model and a device on relayr Dashboard

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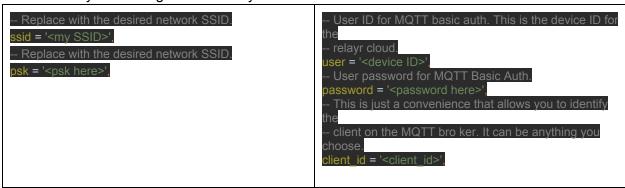
## Hardware:

8. Connect the DHT sensor to Wemos.



### ESP8266 code:

- Clone / download the ESP8266\_Lua repository: <a href="https://github.com/relayr/ESP8266\_Lua">https://github.com/relayr/ESP8266\_Lua</a> ('WORKSHOP' BRANCH)
- 10. Modify the 'config.lua' file with your credentials.



- 11. Upload the files to Wemos (8266) flash drive; use Esplorer or luatool.
- 12. Run the 'app.lua' file -> dofile('app.lua')