

Running the mosquitto_pub/sub clients on the lab machines turned out to be a little fiddlier than planned, but is not too difficult:

1. Download version 1.5 of the mosquitto package from <http://mosquitto.org/downloads>
 - a. Open a terminal and find the downloaded file
 - b. Untar/unzip the download ('tar xvf ...')
 - c. Change into the mosquitto directory just created
2. Edit the 'config.mk' file, and comment out three options (relating to TLS/UUID support) – lines 24, 29 and 69
3. Run 'make' in that directory
4. Copy the new library somewhere useful: 'sudo cp lib/libmosquitto-1.5.so.1 /usr/lib'
5. You can now run the command line clients. Change into the 'client' directory and invoke './mosquitto_pub --help' and './mosquitto_sub --help' to get the command line arguments you need.
6. Easiest way to invoke them is with
 - a. -L mqtt://<username>:<password>@3310exp.hopto.org/topic (careful to escape/quote it all when reading the topic \$SYS/#)
 - b. -i 3310-<uni.id> gives your client a unique index, otherwise you will kick off your other clients.
 - c. -v for verbose prints the topic name before the value; otherwise you just get just the messages, which is almost never helpful.