MQTTModbus

- 1. Install RIAPS on a Computer (follow the instruction of https://github.com/RIAPS/riaps-integration/blob/master/riaps-x86runtime/README.md)
- 2. Flash the BBB (follow the instruction of https://github.com/RIAPS/riaps-integration/blob/master/riaps-bbbruntime/README.md)
- 3. (only for RIAPS 1.1.15) Turn off the security by editing /usr/local/riaps/etc/riaps.conf and changing "security = off" on both the VM and BBBs.
- 4. (only for RIAPS 1.1.15) Log into the VM and copy the public key to the authorized keys "sudo cp/usr/local/riaps/keys/id_rsa.pub ~/.ssh/authorized_keys
- 5. Connect via Ethernet both VM and BBBs to a router (with a working internet connection)
- 6. Install the MQTT library both on VM and BBBs: sudo pip3 install paho-mqtt
- 7. Test MQTT (follow the instruction of https://github.com/RIAPS/riaps-apps/tree/master/apps-vu/MQTTExample)
- 8. In the VM open the folder MQTTModbus and check the .deplo file (see if the IP addresses match the wanted devices) it could be useful to know the topics
- 9. Inside the .riaps file check the IP address of the BROKER (it is written twice inside the code) that one want to use: or a private broker created on the computer or free online broker such as iot.eclipse.org test.mosquitto.org
- 10. For Modbus connection follow the instruction of https://github.com/RIAPS/riaps-library/tree/master/ModbusTesting
- 11. Check the slave addresses and boudrate inside the .ripas file (they have to match that ones of the Modbus slaves)
- 12. Launch the RIAPS CTRL and an deploy the codes.