Depreciated due to unreliable headless mode (83% OK, 17% ERRORS)


```
# ---------------------------------------
# rent a VPS on the internet, e.g.
# contabo.de for Euro 3.99 per month
# - VPS server has preconfigured Ubuntu 20.04
# - VPS server has IP 168.87.126.200 (example)
# - and a 'root' account (with password)
#
# Note:
# $ at the beginning of a line designates a command line
# # at the beginning of a line designates a comment line
# yellow background: content in file

# ------------------
# edit hosts file
$ sudo nano /private/etc/hosts
Password:
# add the following line
168.87.126.200  connectweb.ch
^Xy

# -----------------------------------
# login as root and add user
$ ssh root@connectweb.ch
Password:

# add user mart
$ adduser mart
# answer with enter (accept defaults) and set password

# update visudo
$ visudo
# go to last line and add
mart ALL=(ALL) NOPASSWD: ALL
^Xy

# logout
$ logout

# --------------------------------
# enable ssh for user mart
$ ssh-copy-id -i ~/.ssh/id_rsa mart@connectweb.ch
Password:

# test ssh login
$ ssh mart@connectweb.ch
# logs in without asking for password!

# -----------------------------------
# disable password login etc.
$ sudo nano /etc/ssh/sshd_config
# change (activate) the following lines
UsePAM no
PermitRootLogin no
PasswordAuthentication no
^Xy
```

```
# ----------------------------------
# install unattended updates
$ sudo apt install unattended-upgrades

# do not change config file (use defaults)
# sudo nano /etc/apt/apt.conf.d/50unattended-upgrades

# enable Automatic Upgrades
$ sudo nano /etc/apt/apt.conf.d/20auto-upgrades
# add the following lines to empty file
APT::Periodic::Update-Package-Lists "1";
APT::Periodic::Unattended-Upgrade "1";
APT::Periodic::AutocleanInterval "7";
^X

# make first Automatic Upgrade
$ sudo unattended-upgrades -d

# ----------------------------
# check Python version
$ python3 -V
Python 3.8.5

# ----------------------
# install Python pip
$ sudo apt update
...
$ sudo apt install python3-pip
...
$ pip3 --version
pip 20.0.2 from /usr/lib/python3/dist-packages/pip (python 3.8)

# --------------------------
# install dependencies

$ sudo pip3 install setuptools
Requirement already satisfied: setuptools in /usr/lib/python3/dist-packages (45.2.0)

$ sudo pip3 install selenium
... selenium-3.141.0

$ sudo pip3 install phantomjs
... phantomjs-1.3.0

$ sudo pip3 install schedule
... schedule-0.6.0

$ sudo pip3 install matplotlib
... matplotlib-3.3.3
```

```
# ------------
# install git
$ sudo apt install git
...
$ git --version
git version 2.25.1

# ------------------
# install SQLite
$ sudo apt install sqlite3
...
$ sqlite3 --version
3.31.1 2020-01-27 19:55:54 3bfa9cc97da10598521b342961df8f5f68c7388fa117345...

# ----------------------------
# install Google Chrome
$ wget https://dl.google.com/linux/direct/google-chrome-stable_current_amd64.deb
...
$ sudo apt install ./google-chrome-stable_current_amd64.deb
...
$ cat /etc/apt/sources.list.d/google-chrome.list
### THIS FILE IS AUTOMATICALLY CONFIGURED ###
# You may comment out this entry, but any other modifications may be lost.
deb [arch=amd64] http://dl.google.com/linux/chrome/deb/ stable main

$ google-chrome --version
Google Chrome 87.0.4280.88

# -------------------------
# install chrome-driver
$ wget https://chromedriver.storage.googleapis.com/87.0.4280.88/chromedriver_linux64.zip
$ unzip chromedriver_linux64.zip
Archive:  chromedriver_linux64.zip
  inflating: chromedriver
$ sudo mv chromedriver /usr/bin/chromedriver
$ sudo chown root:root /usr/bin/chromedriver
$ sudo chmod +x /usr/bin/chromedriver
```

```
# ---------------------------------------------
# install project connect-web-logger
$ git clone https://github.com/majo48/connect-web-logger.git
...
$ cd connect-web-logger
$ mkdir database

$ cd logger
$ nano local_settings.py
# copy & paste contents of connect-web-logger/logger/local_settings.py in your mac to here
# or copy contents from local_settings.py.dist and update the username and password
^Xy
$ cd ..

# --------------------------------
# run connect-web logger
$ pwd
/User/mart/connect-web-logger
$ python3 -m logger
2020-12-29 14:13:45 >>> logging in to url: https://connect-web.froeling.com/#/login
2020-12-29 14:13:59 >>> successfull login
2020-12-29 14:13:59 >>> system info
2020-12-29 14:14:03 >>> boiler info
2020-12-29 14:14:06 >>> heating circuit 01 info
2020-12-29 14:14:09 >>> DHW tank 01 info
2020-12-29 14:14:13 >>> feed system info
2020-12-29 14:14:16 >>> logout
etc.

# ----------------------------------------------
# end of installation on Ubuntu server
# stop running process with Ctrl+C
^C
...
$ logout
# end of ssh session
$ ...
```