

11.0 Client software

11.1 Version control

Version 1.0 - 2 February 2021 - first version

Version 1.1 - 9 February 2021 - typos fixed

11.2 Introduction

This document describes the client software of the DMO.

11.3 Git

The client software can be found at <https://github.com/demoor-orrery/DMO/>

There is 1 file: DMO.py. It has comments in the source to explain when needed.

You'll need to install that on every RPI/planet.

11.4 General instructions

The software runs with python 3 and is pretty straight forward.

Make sure that every RPI has its correct hostname as that is how the RPI knows which planet it is.

Adafruit Motor HAT requires some special handling. Please read: <https://learn.adafruit.com/adafruit-dc-and-stepper-motor-hat-for-raspberry-pi>

DMO.py generates a log-file which is published at index.php. In order to read that during real time execution you will need to install the Apache webserver and PHP. Please read: <https://www.raspberrypi.org/documentation/remote-access/web-server/apache.md>

The RPI's should have autoboot, meaning they start running DMO.py as soon as the power is switched on. In order to do so include the following line in /etc/rc.local

```
sudo nohup python3 -u /home/pi/DMO/DMO.py > /home/pi/DMO/DMO.log &
```