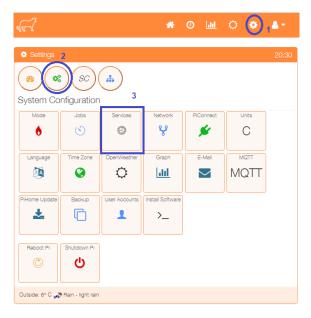
## MaxAir Technical - Task Scheduling

MaxAir requires a number of background tasks to be actioned periodically, a task scheduler, running as a system service, is provided to achieve this functionality. The task scheduler executes once every second, this determines the maximum repetition rate. The list of tasks to be executed is dynamic, so that tasks can be added or deleted from the schedule as required. The tasks will typically be script files and can be, for example, coded as 'Shell', or 'Python' or 'PHP' scripts.

## MaxAir has six pre-installed tasks:

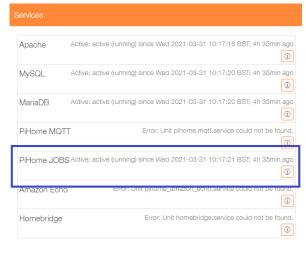
- 1. The 'controller' Task main engine for the system, controlling the target heating system, it executes once every 60 seconds.
- 2. The 'check\_gw' Task manages the System Gateway hardware to send and receive messages, it executes once every 60 seconds.
- 3. The 'system\_c' Task reads the CPU temperature from the systems control board, it executes once every 300 seconds.
- 4. The 'weather\_update' Task collects weather data from the 'openwather' API, it executes once every 1800 seconds.
- 5. The 'reboot\_wifi' Task checks the status of the wifi connection and attempts to restart if required, it executes once every 120 seconds.
- 6. The 'sw\_install" Task checks for software install requests, it executes every 10 seconds.

## **Checking The Task Scheduler is Running**

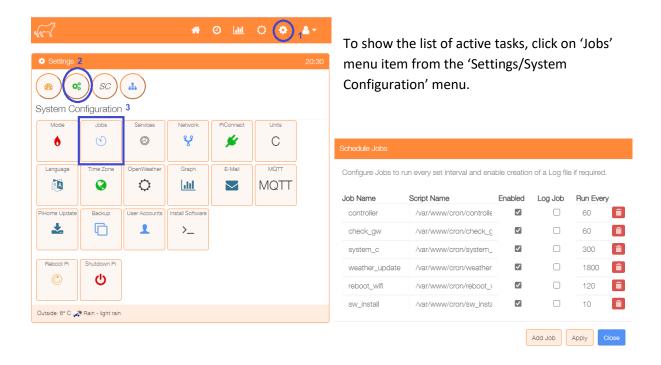


The PiHome JOBS service is shown to be Active. Close the menu.

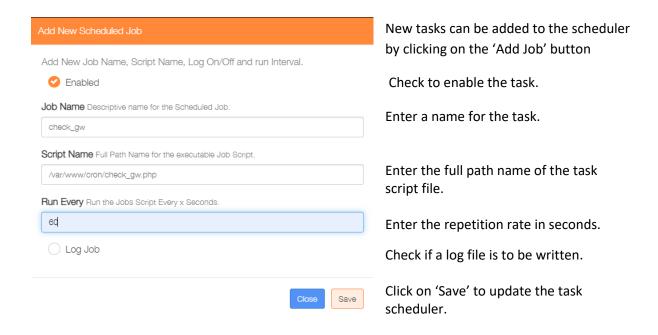
Click on the 'Services' menu item in the 'Settings/System Configuration' menu. This will display a list of the currently installed services and their status.



Close

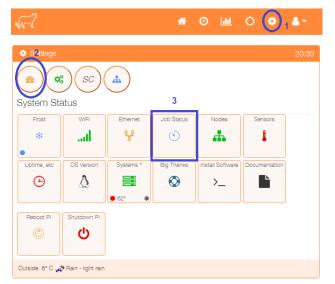


The 6 pre-installed tasks are shown, they will be enabled by default and will not be writing their output to a log file. The log to file option for any job can be activated by checking the tickbox. The execution frequency can be edited and tasks delete if chosen. If changes have been made, they will not be actioned until the 'Apply' button is clicked.

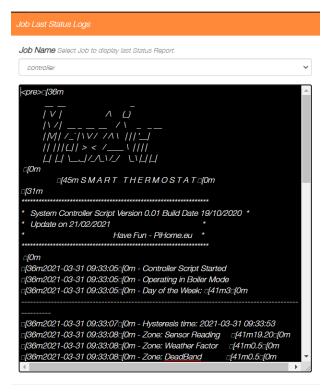


Note: log files will be written to directory /var/www/cron/logs/

## **View Last Job Output**



Click on the 'Job Status' menu item from the 'Settings/System Status' menu.



Select the task of interest from the dropdown list of installed tasks to display the results of the last execution in the display window. Click on the 'Close' button when finished.