

# Log Rotation

The Qube! supervisor and workers communicate between themselves in order to coordinate the dispatch and running of jobs, and log this communication in the `supelog` and `workerlog` files respectively. Over time, these logs may become very large, can consume an inordinate amount of disk space, and can be unwieldy to should they need to be read for troubleshooting purposes.

Automated log rotation on the supervisor and workers is available via a Windows Scheduled Task, `launchctl` on OS X, and a cron job on Linux.

## Setup and configuration

### Linux

#### Setup

No additional tasks are necessary for log rotation on linux.

#### Configuration

The log rotation on Linux is managed by the linux daemon `logrotated`, and is specified in `/etc/logrotate.d/supervisor`. See the man pages for `logrotated` if you wish to customize the rotation policies.

#### Rotation Policy

Rotate out the logs weekly, keeping 4 copies.

### OS X

#### Setup

No additional tasks are necessary for log rotation on OS X.

#### Rotation Policy

Rotate out the logs when they exceed 100MB in size (the default size in the `logrotate.py` script).

#### Configuration

The log rotation on OS X is managed by `launchctl/launchd`, and the associated `.plist` files are:  
`/Library/LaunchDaemons/com.pipelinefx.logrotate.supervisor.plist`  
`/Library/LaunchDaemons/com.pipelinefx.logrotate.worker.plist`

Both of these plists call `/Applications/pfx/qube/utils/logrotate.py`; see [The logrotate.py script](#)

### Windows

#### Setup

Enabling log rotation on Windows requires that the Python programming language be installed and in the System SEARCH PATH. The easiest way to accomplish this is to download and install a free Community Edition version of Python from <http://www.python.org>. Download and run one of these installers, and allow it to add Python to the System Search Path. You should see the logs rotate out within the hour. If you're unsure which version to install, choose the 64-bit installer.

#### Configuration

All Scheduled Tasks call `%QBDIR%/pfx/qube/utils/logrotate.py`, with only the path to the log as an argument.

#### Rotation Policy

Rotate out the logs when they exceed 100MB in size (the default size in the `logrotate.py` script).

## Verifying that log rotation is occurring

Locate the log directory:

- Linux: `/var/log/`
- OS X: `/var/log`
- Windows Vista, 7, Server 2008: `C:\ProgramData\Pfx\qube\logs`

You will see at least on `workerlog` or `supelog` file. When rotation occurs, these logs are renamed and/or zipped/compressed.

- supelog -> supelog.1
- supelog.1 --> supelog.2.zip
- supelog.2.zip --> supelog.3.zip
- supelog.3.zip --> supelog.4.zip
- supelog.4.zip is deleted

You will only see supelog and supelog.1 the first time the rotation occurs. The other files will appear when additional log rotation cycles occur as time passes.