

# Concept and general instructions

---

If you want to run Daisy as part of your operational environment, you might prefer to run the different Daisy components as *services*, which you can easily start, stop and restart, and which ideally run under a specific user (perhaps with restricted privileges). We recommend using "[wrapper](#)<sup>1</sup>" for this, a fine open source project from Tanuki Software. If you use wrapper and are happy with it, consider [making a donation](#)<sup>2</sup> to its developers.

Tanuki wrapper can be used *both* on Unix and Windows platforms. As of Daisy 2.0, the wrapper scripts are integrated into the daisy binary distribution. The following sections explain the implementation details and how to make use of these scripts.

## Installing the scripts

(starting from Daisy 2.0.1)

Run the following command

```
<daisy.home>/install/daisy-service-install -r <repo-data-dir> -w <wiki-data-dir>
```

You can choose to give only the `-r` or `-w` option, as desired. To see all available options, specify the `-h` (help) option.

The service scripts will then be installed in the service subdirectory of the repository and wiki data directories.

## Implementation details

What this command does is copying some template files from the `DAISY_HOME/wrapper` directory, and adjusting some paths in the conf files.

## Using the wrapper scripts

Detailed instructions on the usage of the wrapper scripts have been created for the following platforms:

- [Unix](#)<sup>3</sup>
- [Windows](#)<sup>4</sup>

## Using a custom jetty-daisywiki.xml

If you have a custom `jetty-daisywiki.xml` in your wiki data directory, you will need to edit the following file:

```
<wiki data dir>/service/daisy-wiki-service.conf
```

Instructions are in the file itself.

## Relocating the data directories or changing the location of daisy home

If you would like to relocate either your daisy data directory or your daisy wiki data directory, or if you want to move your daisy home directory, you have to either manually adapt the settings inside the wrapper

- 
1. <http://wrapper.tanukisoftware.org/>
  2. <http://wrapper.tanukisoftware.org/doc/english/donate.html>

configuration files, or run `daisy-service-install` again. What follows are instructions for manual adjustment.

The repository startup script is configured via the file `<DAISY_DATADIR>\service\daisy-repository-server-service.conf`, at the very beginning of that file, you will find the following section:

```
# Environment variables
set.default.DAISY_HOME=/path/to/your/daisy/home
set.DAISY_DATADIR=/path/to/your/daisy/datadir
set.WRAPPER_HOME=%DAISY_HOME%/wrapper
```

Simply replace the path for `DAISY_HOME` and/or `DAISY_DATADIR`, and you are done.

In case of the daisy wiki startup script, configuration takes place via `<DAISYWIKI_DATADIR>\service\daisy-wiki-service.conf`. At the very beginning of that file, you will find the following section:

```
# Environment variables
set.default.DAISY_HOME=/path/to/your/daisy/home
set.default.DAISYWIKI_DATADIR=/path/to/your/daisywiki/datadir
set.JETTY_HOME=%DAISY_HOME%/daisywiki/jetty
set.WRAPPER_HOME=%DAISY_HOME%/wrapper
```

Simply replace the path for `DAISY_HOME` and/or `DAISYWIKI_DATADIR`, and you will be able to use the script again.

## Usage of the wrapper scripts on other platforms

For MacOS and Solaris, precompiled binaries of the wrapper scripts binaries and libraries are shipped together with the daisy binary distribution, so that the wrapper scripts should run out of the box on these platforms .

In order to use the wrapper scripts on AIX or HP-UX, you have to perform the following steps:

- Download the wrapper binaries for your platform from the wrapper's [download page](#)<sup>5</sup> at sourceforge (e.g. `wrapper-aix-ppc-32-3.2.x.tar.gz`).
- Copy the file `wrapper` inside the `bin`-directory of your downloaded wrapper archive to the directory `$DAISY_HOME/wrapper/bin` of your daisy installation.
- Copy the wrapper library file (e.g. `libwrapper.a`) which can be found inside the `lib`-directory of your downloaded wrapper archive to the directory `$DAISY_HOME/wrapper/lib` of your daisy installation.

That's it already. You now hopefully will be able to start up the services by using the startup files in the service directory of your daisy data directory or your daisywiki data directory, respectively. In case the startup fails, you might need to adapt the variable `WRAPPER_CMD` inside the startup files.

Hope these instructions helps as a quick primer on how to use wrapper with Daisy. Wrapper's documentation is quite good, so please review it before asking questions.

### NOTE

Wrapper also monitors the JVM processes by "*pinging*" them regularly, and will even restart the processes if a VM gets stuck - which, under normal circumstances, shouldn't happen.