

JFreeMon

Install Guide

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1. Overview

This document is an install guide to JFreeMon, a general purpose resource monitoring system.

Purpose of the Document

This document should provide enough information to set up JFreeMon for the first time. This includes:

- The JFreeMon binary package location
- Unpacking
- Configuring
- Running

Intended Audience

This document is intended for technical personnel involved in the installation and configuration of JFreeMon. This document requires a fair knowledge of the following areas:

- Windows, MacOs or Linux/Unix platform
- Java Runtime Environment

Used Terms

The table below explains the terms used in this document.

Term	Explanation
JFreeMon	Open source general purpose resource monitoring software.

Version History

The table below shows the version history of this document.

Version	Created	Description
0.1	14.3.2007	First version of document.

2. Requirements

This chapter presents the hardware and software requirements. If not met, JFreeMon might not run at all or may run incorrectly.

Hardware

The table below shows the hardware requirements for JFreeMon.

Required	Recommended
256 MB memory	1024 MB memory or above
10 MB hard drive space	1024 MB hard drive space or above

Software

The table below shows the software requirements for JFreeMon.

Required	Recommended
Windows (2000, XP or Vista) or MacOS 10.x or Solaris (9 or 10) or Linux (RedHat, Ubuntu, etc.)	Windows (XP or Vista) or MacOS 10.4 or Solaris 10 or Linux (RedHat, Ubuntu, etc.)
Java Runtime Environment 6	Java Runtime Environment 6
-	*MySQL 5

**) Using a database is optional – it is required only for gathering historical data.*

3. The JFreeMon Binary package

JFreeMon is provided either as a binary package or source code package. The binary package is mainly used for installation and out-of-the-box use.

Download Locations

The main distribution site for JFreeMon is SourceForge. The binary package can be found at least from one of the links below:

- The JFreeMon project web site (see *Downloads* section)
<http://jfreemon.sourceforge.net/>
- The JFreeMon SourceForge site (see *Downloads* section)
<http://sourceforge.net/projects/jfreemon>

Naming Conventions

The JFreeMon binary distribution follows a certain naming convention, which includes the version number, for example:

```
jfreemon-binary-0.1.zip or
```

```
jfreemon-binary-0.1.tar.gz
```

It is a good idea to always download the newest version, unless a very specific need for older versions.

Extracting

Installing JFreeMon is very simple; all that is needed is to extract the binary package into a destination directory.

Windows (assuming WinZip is installed)

After downloading the binary package to a temporary directory, right-click on the downloaded file and select **Open with WinZip**. Press the **Extract** button and choose an installation directory (for example `C:\JFreeMon`). That's it, JFreeMon is installed.

MacOS and Unix/Linux

After downloading the binary package, create a new installation directory (for example `/JFreeMon`) and extract the package there. An example is shown below:

```
$ tar xvf jfreemon-binary-0.1.tar.gz /INSTALLATION_DIRECTORY
```

4. Optional Libraries

JFreeMon includes functionality that can be turned on optionally. Usually, these are turned off by default and must be turned specifically on from the preferences. Additionally, using these optional functionalities may require including 3rd party libraries. This chapter presents all the optional functionality and how to install possibly needed drivers.

Database

JFreeMon can use a database to store historical data that can be queried and viewed at a later time. For now, the popular MySQL database (version 5) is only supported. If enabling the database use, the MySQL JDBC driver must be installed.

1. Download the JDBC driver (MySQL Connector/J):
<http://www.mysql.com/products/connector/j>
2. Extract the downloaded package and copy the library JAR file (for example `mysql-connector-java-5.0.5-bin.jar`) to JFreeMon's `lib` directory.
3. Edit the `run.bat` or `run.sh` script and add the library file to the JFreeMon optional libraries path, for example:
`JFREEMON_OPTIONAL_LIBS=mysql-connector-java-5.0.5-bin`

5. Configuration Files

JFreeMon uses two configuration files; one Java properties style configuration file containing the server settings and one XML file containing a list of saved client systems.

Preferences

JFreeMon preferences are stored on disk in a standard Java properties file. JFreeMon expects to find this file in the same directory from which JFreeMon is started.

```
jfreemon.properties
```

This file contains settings like:

- Desktop application colors
- Server settings
- Logging settings
- Optional database settings

Client Systems

The client systems that are configured are also stored on disk, but this time using a XML notation due to the complexity of these clients. As in the preferences file, JFreeMon expects to find the client list in the same directory from which JFreeMon is started.

```
jfreemon.xml
```

6. Running JFreeMon

This chapter describes how to start the JFreeMon server.

Windows

On windows platforms, JFreeMon can be started using the following command (for example from Windows Explorer or the Command Prompt):

```
run.bat
```

If JFreeMon doesn't start, see the Troubleshooting section for more.

MacOS and Unix/Linux

On MacOS and Unix/Linux platforms, JFreeMon can be started using the following command from the command prompt:

```
$ sh run.sh
```

If JFreeMon doesn't start, see the Troubleshooting section for more.

7. Troubleshooting

This chapter tries to answer questions related to common errors when setting up JFreeMon. If the information you are looking for is not found here, try the JFreeMon project SourceForge site and see the *Forums* section.

Problem

When trying to start JFreeMon, the following error appears: “Windows cannot find ‘javaw’. Make sure you typed the name correctly, and then try again.”

Solution

The JVM executable is not in your path. You can set this in the `run.bat` or `run.sh` startup scripts, for example:

```
JFREEMON_JAVA=C:\java\bin\java
```