

# OSMIUS Web Console Installation Manual



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<b>Author:</b> Jose Angel Chico		<b>Reviewed by:</b> José Luis Marina	
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## 1 INTRODUCTION

### 1.1 About this manual

Congratulations! You've decided to install OSMIUS's Web Console.

This is the Reference Manual for the OSMIUS Web Console Subsystem. It documents Web Console Version 8.01. This manual drive you through the steps of install and configure the Web Console of the OSMIUS monitoring tool. It does not discuss or provide in depth instructions of operating the console, see the User Manual for this.

Because this manual serves as a reference, it does not provide general instruction on other software installation issues or concepts, as Web Application Servers or Relational Databases. It also will not teach you how to use your OSMIUS Web Console, see "OSMIUS Web Console Reference Manual".

The discussion in this manual is aimed at administrators who will install and configure the Web Console nor the OSMIUS Server.

### 1.2 Main features of OSMIUS Web Console

The following list describes some of the important characteristics of the OSMIUS Web Console.

#### Internals and Portability

- Written in Java (J2EE).
- Tested with Mozilla Firefox browser.
- Works on many different platforms. You just need a Servlet container, like Tomcat.

#### Functional

- Events control, operation, history,...
- System architecture definition. Instances, master agents, agents,...

## 2 INSTALLATION

This chapter describes how to obtain and install Osmius Web Console:

- Determine whether your Servlet container is supported. We have tested Osmius Web Console with Tomcat 5.5.25, so a Servlet container compatible with Servlet 2.4 /JSP 2.0 specification will be suitable. Please note that not all supported systems are equally good for running Osmius Web Console on them. On some it is much more robust and efficient than others.
- Choose which distribution to install. OSMIUS Web Console is available in several distribution formats. You can choose from pre-packaged distributions containing binary (precompiled) programs or source code. When in doubt, use a binary distribution. We also provide public access to our current source tree for those who want to see our most recent developments and help us test new code. To determine which version and type of distribution you should use, see Section 2.1.1.
- Download the distribution that you want to install. For a list of sites from which you can obtain OSMIUS Web Console, see Section 2.1.2.
- Install the distribution. To install OSMIUS Web Console from a binary distribution, use the instructions in Section 2.2. To install MySQL from a source distribution or from the current development source tree, use the instructions in Section 2.3.
- After installing MySQL, read Section 2.4 [Post-installation]. This section contains important information about making sure the Osmius Web Console is working properly. The section applies whether you install Osmius Web Console using a binary or source distribution.

### 2.1 General installation issues

Before installing MySQL, you should do the following:

1. Determine whether or not Osmius Web Console runs on your platform.
2. Choose a distribution to install.
3. Download the distribution.

### 2.1.1 Choosing which version to install

When preparing to install Osmius Web Console, you should decide which version to use. Osmius Web Console development occurs in several release series, and you can pick the one that best fits your needs.

The first decision to make is whether you want to use a production (stable) release or a development release. In the development process, some release series co-exist, each at a different stage of maturity:

Osmius Web Console 8.01 is the current stable (production-quality) release series.

No new features are added that could diminish the code stability.

### 2.1.2 Choosing which distribution to install

After choosing which version of Osmius Web Console to install, you should decide whether to use a binary distribution or a source distribution. In most cases, you should probably use a binary distribution, if one exists.

#### 2.1.2.1 Source distribution

Under some circumstances, you probably will be better off installing Osmius Web Console from a source distribution:

- You want to review the source code or add you personal features.
- You want to use another libraries to get the .WAR file.

#### 2.1.2.2 Binary distribution

Binary distributions are available in .WAR format.

Distributions also are available as Zip archives or compressed tar files.

Reasons to choose a binary distribution include the following:

- Binary distributions are easier to install than source distributions.
- Binary distributions includes all the libraries you will need.

### 2.1.3 How to get Osmius Web Console

Check the Osmius downloads page (<http://www.osmius.net/en/downloads.php/>) for information about the current version and for downloading instructions.

You can get it from the Sourceforge page (<http://sourceforge.net/projects/osmius>)

## 2.2 Standard Web Console installation using binary distribution

The installation process for Osmius Web Console has the following steps:

1. Install the software you will need to make Osmius Web Console work..
2. Obtain and install the distribution.
3. Follow the post-installation steps if necessary.
4. Start the Web Application Server.
5. Access Osmius Web Console.

The binary distribution contains all you need to make the program works.

### 2.2.1 System requirements

To install and run Osmius Web Console, you need the following:

- A Web Application Server. The console was designed, developed and tested using Apache Tomcat 5.5.25 and J2SE 5.0, but you can use any J2EE web application server compliance (Servlet 2.4 /JSP 2.0).
- A MySQL server 5.0.38 or an upper version of the database engine. Perhaps it works with MySQL 4.0, but we don't have tested it. Make sure you can work with the InnoDB engine.

Note: The install process of this software is out of the scope of this manual, please refer to the install manuals of the software you choose, although if you want to

monitor the Tomcat server you must configure the JMX Remote option. Please refer to <http://tomcat.apache.org/tomcat-5.5-doc/monitoring.html> documentation or

- A copy of the Osmius Web Console binary distribution, which can be downloaded from <http://www.osmius.net/en/downloads.php>

Note: If you download the distribution via FTP, we recommend the use of an adequate FTP client with a resume feature to avoid corruption of files during the download process.

- GNU gunzip or another tool to uncompress the distribution file.
- Enough space on the hard drive to unpack, install, and create the databases and to hold the application body.

To install Osmius Web Console using a binary distribution, follow this procedure:

### 2.2.2 Creating the Osmius Web Console database

Once you have the MySQL Sever running you have to created a new database. By default the database name is *osmius*, if you want to change it you must edit the configuration database files. You can obtain this files via the subversion repository. The url is : <https://osmius.svn.sourceforge.net/svnroot/osmius/trunk/database>

Please, follow the README.txt instructions to complete the database installation.

### 2.2.3 Installing the Osmius Web Console application

First off all, you have to open the applicationContext-resources.xml file, into the .WAR file. In the file you must edit the following lines:

```
<property name="url" value="jdbc:mysql://localhost/osmius?useUnicode=true&characterEncoding=utf-8"/>
<property name="username" value="osm"/>
<property name="password" value="osm"/>
```

In the first line you have to put your own url to connect with the database server, you just have to put your database IP and port instead of *localhost*, and if you change the database name put the new name instead of *osmius*.

In the second and third lines you have to put the user you use to work with the Osmius model and it's password. By default, we use 'osm' user. This is a database user with granted only with SELECT, INSERT, DELETE, UPDATE and EXECUTE PROCs.

It's out of the scope of this manual the way to deploy an application into an Web Application Server, because of differs from one application server to another.

So, please refer to your Web Application Server manual to deploy the Osmius Web Module Application.

In the Apache Tomcat 5.5 copy the war file into the webapps folder and the application server must deploy the application when you starts it.

## 2.3 Standard Web Console installation using source code distribution

Osmius Web Console uses [Maven](#) for the project management. Although you can build the application yourself, we recommend to use this tool.

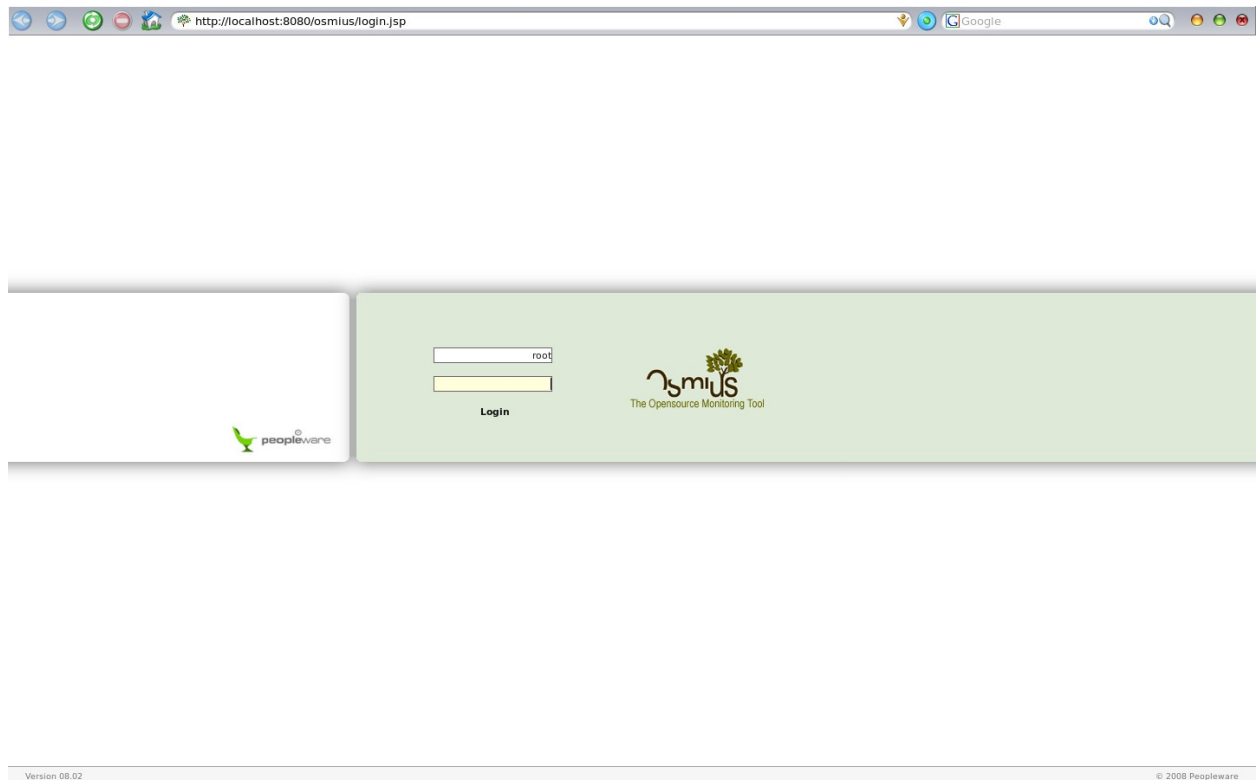
The installation process for Osmius Web Console has the a following steps:

1. Checkout the latest version from the repository :  
svn co <https://osmius.svn.sourceforge.net/svnroot/osmius/trunk/javaconsole> osmius
2. Follow the steps in the README.txt
3. Start the Web Application Server and deploy the application.
4. Access Osmius Web Console.

## 2.4 Post-Installation setup and testing

If you have follow all the previous instructions you just have to start your Web Application Server, be sure that the MySQL Server it's running before, and when the init process finish open your web browser and put the url, <http://localhost:8080/osmius> for example (change localhost as you need).

You must get a login page like this:



Osmius Web Module have a complete security module (see the Reference manual for more information), but we offer a test user:

`osmius/osmius`

It's strongly to change the user password once you have completed the installation process.

Congratulations! You have installed the Osmius Web Console.

### 3 APENDIX A – CREDITS

#### 3.1 Developers at OSMIUS Web Console

These are the developers that are or have been employed to work on the Osmius Web Module software, roughly in the order they started to work with us.

Following each developer is a small list of the tasks that the developer is responsible for, or the accomplishments they have made. All developers are involved in support.

José Luis Marina

Eduardo Fernández-Vega

José Angel Chico

#### 3.2 Libraries used by and included with OSMIUS Web Console

The following is a list of the libraries we have included with the Osmius Web Console software.

acegi-security	hibernate
ajaxtags	itext
antlr	oro
asm	jaxen
aspectjweaver	jericho-html
cglib	jfreechart
commons-codec	joda-time
commons-collections	log4j
commons-dbcp	mysql-connector-java

commons-digester	saxpath
commons-fileupload	sitemesh
commons-io	spring
commons-lang	struts-menu
commons-logging	urlrewritefilter
commons-pool	velocity
commons-validator	xalan
dom4j	xmlParserAPIs
ehcache	xml-apis

### 3.3 Tools that were used to create OSMIUS Web Console

The following is a list of some of the tools we have used to create Osmius Web Console Software. We use this to express our thanks to those that has created them as without these we could not have made

MySQL Server 5.0.38.

Apache-tomcat-5.5.25

Eclipse IDE 3.0 of the Apache Software Foundation.

Appfuse v.1.9.4

### 3.4 Supporters of OSMIUS Web Console

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Version 2, June 1991

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