

# **Olympos**

**Chronos Web Tools** 

Installation guide 0.9.7

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# **Document History**

#### **Document Location**

This is a snapshot of an on-line document. Paper copies are valid only on the day they are printed. Refer to the author if you are in any doubt about the currency of this document.

The source of the document will be found in the Subversion repository on Source Forge.

https://olympos.svn.sourceforge.net/svnroot/olympos/trunk/olympos/chronos/scr/applications/requirement s/Chronos Web Modeller Installation.pdf

# **Revision History**

Date of this revision: 12/11/09	Date of next revision TBD

Revision Number	Revision Date	Summary of Changes
(#)	(-)	(Describe change)
0.1	18/12/08	created
0.2	03/02/09	Update installation steps
0.8.1	04/02/09	Update for 0.8.1
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Document:

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#### **Olympos**



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# 1. Abstract

This file helps to configure and install the **Chronos Web Tools**, including **the Chronos Web Modeller** and the **Chronos web Browser**. It is addressed to system administrators only. If you are an user start with the CWM online help.

You can download the most recent CWT version from: <a href="http://sourceforge.net/projects/olympos/">http://sourceforge.net/projects/olympos/</a>

# 2. License

The **code** of the CWT and the accompanying materials are made available under the terms of the Eclipse Public License v1.0 which accompanies this distribution, and is available at <a href="http://www.eclipse.org/legal/epl-v10.html">http://www.eclipse.org/legal/epl-v10.html</a>.

The **concept** of Chronos is made available under the Creative Common license.

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# 3. Requirements

Please consider the following list of requirements before installing the Chronos Web Modeler

#### 3.1 Server hardware

Minimal configuration (development)

CPU	1x2,5 GHz
RAM	1 GB
HD	1 x 500 GB
RAID Level	0

#### Suggested (productive)

CPU	4 x 2,5 GHz
RAM	8 GB
HD	2 x 1000 GB
RAID Level	5

#### 3.2 Server Software stack

The development was tested under Windows XP SP2, Linux Ubuntu Server 64 and Linux Debian (Etch 4.0 Kernelname: 2.6.18-6-686-bigmem). Other Linux distributions (like e.g SUSE or Redhat) should also work, but have not been tested .

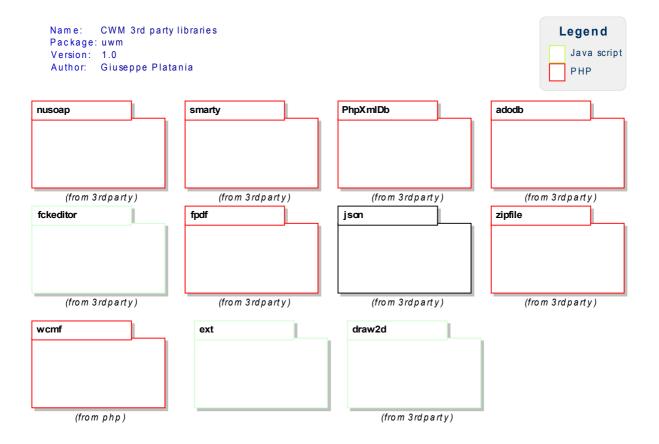
The server requires the following components:

- Apache (2.2.11) [Linux]
- Apache (2.2.10) [Windows]
- MySQL (5.0.00)
- PHP (5.2.8) (with JSON library active)
- Java 1.6
- phpMyAdmin (3.1.1) [Linux]
- phpMyAdmin (3.1.0) [Windows]
- unzip
- OpenOffice

XAMPP for Linux or Windows, includes most of them. Download and install XAMPP for Linux or Windows from http://www.apachefriends.org/en/xampp.html

# 3.3 CWM Application Libraries

The CWM application uses the libraries depicted below:



#### 3.4 Client

The client need to be able to run a supported browser.

#### 3.4.1 Hardware

Minimal:

Key	Value
CPU	Celeron 900 MHz Class
RAM	752 MB
Monitor	15"

Suggested:

Key	Value
CPU	CORE2 2 GHz class
RAM	2 GB
Monitor	21"

# 3.4.2 Software

The client runs in following browsers with activated JavaScript:

- Firefox 3 or better (*Preferred*)
- Google Chrome 2

Not (yet) supported:

- Opera
- IE 8

# Installation

The installation of the CWM needs following steps:

- 1. Install the LAMP or WAMP stack.
- 2. Configure PHP.
- 3. Install phpMyAdmin.
- 4. Create the CWM database.
- 5. Install Java.
- 6. Install OpenOffice
- 7. Deploy the CWM package.
- 8. Configure the application.

This document is oriented to a productive installation under Linux.

#### 3.5 Install the LAMP or WAMP stack

Follows the specific installation instruction of your Operating System or distribution.

## 3.6 Configure PHP

Configure the resource limit for PHP find the position of your php.ini

#### edit php.ini as following:

## 3.7 Install phpMyAdmin

Phpmyadmin is a supported package in many Linux distribution.

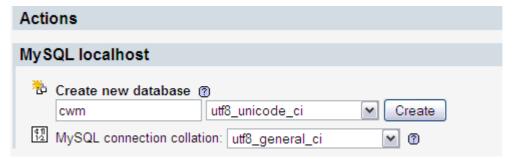
Under Ubuntu you can install it by using the following command:

sudo apt-get install phpmyadmin

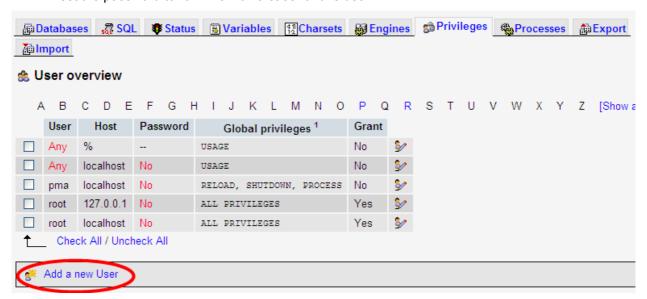
#### 3.8 Create the CWM database

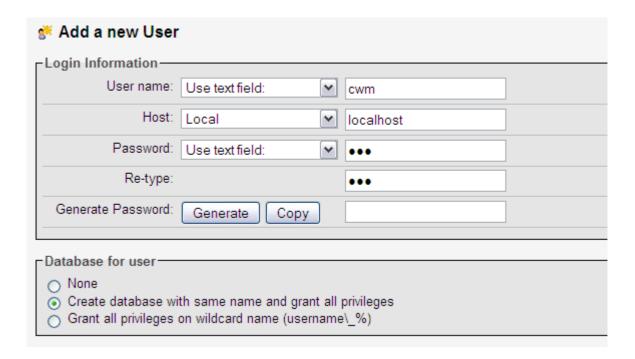
- · Only in case of a new installation
- Open PHPMyAdmin by browsing to Ihttp://localhost/xampp/
- Create a Database name "cwm":

•



- Create an user with name "cwm" for the new created "cwm" database
- set the password to "cwm" all lowercase for this user





#### 3.9 Fill the database

Only in case of a new installation:

• execute on the created CWM database the provided <code>cwm.sql.gz</code>. This will install the default users and roles as well as the standard models.

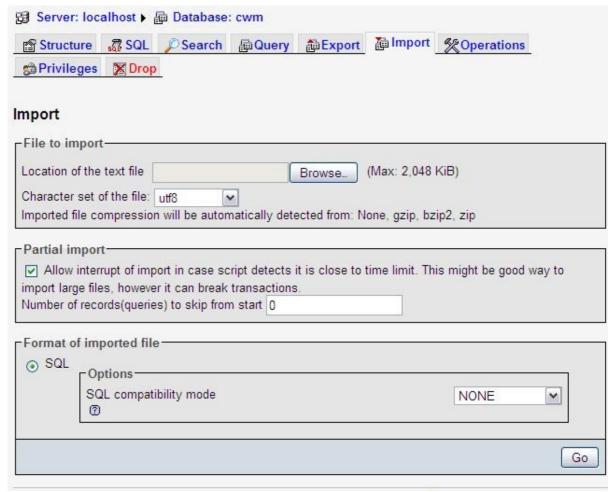


Illustration 1:

#### 3.10 Install Java

- Check if the correct java version is installed: type in a console "java -version"
- If 1.6 is not available, install java 1.6 or better

## 3.11 Install OpenOffice

Install the package

#### openoffice.org

the version number must be 2.0.4 or better.

 Type in a bash shell: soffice -headless -accept="socket, host=localhost, port=8100; urp;" -nofirststartwizard Note: if you receive the error "X11 error: Can't open display:" when running the above command, then you may need to install the "headless" OpenOffice.org package from your Linux distribution. On Ubuntu/Debian, this package is called **openoffice.org-headless**.

#### 3.12 Test the access to the Metamodel

To be able to export the CWM need to dynamically read the Metamodel that in this version is under:

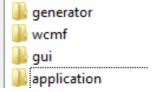
http://cwm.nikostotz.de/chronos.profile.uml

check that your server or firewall can access to this file by typing

wget http://cwm.nikostotz.de/chronos.profile.uml

## 3.13 Deploy the CWM package

- > The CWT are provided as single zip file.
  - NOTE Optional in case of Upgrade only
    remove the server.ini file from /cwm/application/include before unzip the file to avoid
    overwrite your actual configuration.
- ➤ Unzip the package (e.g. cwm0.9.7.zip) in the apache http directory e.g. /var/www directory
- following structure is created:



# 3.14 Configure the application

Only in case of a new installation:

- Browse to cwm\application\include
- Open with an editor the server.ini file
- > Edit the section [database] with your DB information

```
[database]
dbType = mysql
dbHostName = localhost
dbName = cwm
dbUserName = cwm
dbPassword = cwm
```

# 3.15 Configure the generator

Only in case of a new installation:

• on the same file server.ini modify the [generator] section to point to the position of your wCMFGenerator.jar.

```
...
[generator]
executable = /var/www/cwm/wcmf generator/wCMFGenerator.jar
```

## 3.16 give Apache rights to the generated folder

From the version 0.9.7 the CWM can generate a complete application.

Give the Apache all the right for:

```
/var/www/cwm/generated/
chmod 666 /var/www/cwm/generated/
```

#### 3.17 Install the standard Models and Users

In case of Upgrade:

- > Open Firefox 3 and browse to <a href="http://localhost/cwm/application">http://localhost/cwm/application</a>
- > Click on upgrade to upgrade your database

# 4. Get started

#### 4.1 Administrate users and roles

- > Click on start application to start the backend application
- > Use the standard user:admin with the password:admin to login
- > Click on Administration to manage users and roles
- > Change immediately the password for the user admin
- Create so many users and roles as necessary.

# 4.2 Test the CWM

- > Browse to <a href="http://localhost/cwm/gui/">http://localhost/cwm/gui/</a>
- ➤ Login
- > welcome to the CWM!!!

# Login Login: Language: English Login Login Language: Language: Language: Language: Login

# 4.3 Test the CWB

- > Browse to <a href="http://localhost/cwm/Browser">http://localhost/cwm/Browser</a>
- ➤ Login
- > welcome to the CWB!!!

