



## Installation of Apache OpenMeetings 3.3.2 on Arch Linux

This tutorial is based on a fresh installations of

**arch-anywhere-2.2.8-x86\_64.iso**

Arch Anywhere, it is a pure Arch Linux, with the only difference that the installation it is graphical. That's all.

It is tested with positive result. We will use the Apache's binary version OpenMeetings 3.3.2stable, that is to say will suppress his compilation. It is done step by step.

22-9-2017

Please, be connected to Internet during all the process tu run any server.

Starting...

1)

----- Update Operative System -----

Open a terminal as root:

`su`

...will ask for root password, and we update the operative system:

`pacman -Syu`

2)

## ----- Installation of Oracle Java 1.8 -----

Java **1.8** it is necessary for OpenMeetings **3.3.2**. We'll install Oracle Java. Open Java gave an error in some OpenMeetings function. It is tested.

We'll install Packer. Packer is a wrapper for both Pacman and AUR. Packer reduce the complexity of manually compiling and installing the packages.

First, install the required dependencies:

```
pacman -S base-devel fakeroot jshon expac git wget
```

...when ask: **Enter a selection (default=all):** ...press **Enter**.

...will ask also: **Continue with the installation? [Y/n]** ...press **Enter**.

...and when finish, exit as root:

```
exit
```

Download the PKGBUILD script from AUR:

```
wget https://aur.archlinux.org/cgit/aur.git/plain/PKGBUILD?h=packer
```

...rename the unloaded file:

```
mv PKGBUILD\?h\=packer PKGBUILD
```

...we compile it:

```
makepkg
```

...and now install Packer:

```
sudo pacman -U packer-*.pkg.tar.xz
```

...will ask: **Continue with the installation [Y/n]** ...press **Enter**.

Now, being at home, and in the terminal as user, not as root, install Oracle Java:

```
packer jdk
```

...will show all the available java versions. Type the number of Oracle Java Development, according to your Arch Linux installation, 32 or 64bit.

In my case i type, at the end of the shell, the number 11.

```
guadal@ari:~  
Archivo Editar Ver Buscar Terminal Ayuda  
8 extra/openjdk8-doc 8.u144-1  
   OpenJDK Java 8 documentation  
9 extra/openjdk8-src 8.u144-1  
   OpenJDK Java 8 sources  
10 extra/visualvm 1.3.9-1  
   Visual tool integrating several commandline JDK tools and lightweight  
   profiling capabilities  
11 aur/jdk 8u144-1 (768) ←  
   Oracle Java Development Kit  
12 aur/jdk7 7u80-1 (135)  
   Oracle Java 7 Development Kit (public release - end of support)  
13 aur/jdk6 6u45-6 (79)  
   Oracle Java 6 Development Kit (public release - end of support)  
14 aur/jdk-docs 8u144-2 (51)  
   Documentation for Oracle Java Development Kit  
15 aur/jdk-devel 9b181-1 (35)  
   Oracle Java 9 Development Kit Snapshot  
16 aur/jre8-openjdk-infinity 8.u152-1 (29)  
   OpenJDK Java 8 full runtime environment with infinity patch applied  
17 aur/jre8-openjdk-headless-infinity 8.u152-1 (29)  
   OpenJDK Java 8 headless runtime environment with infinity patch applied  
18 aur/jdk8-openjdk-infinity 8.u152-1 (29)  
   OpenJDK Java 8 development kit with infinity patch applied  
19 aur/jre7-openjdk-infinity 7.u111_2.6.7-1 (28)
```

```
guadal@ari:~  
Archivo Editar Ver Buscar Terminal Ayuda  
42 aur/jdk6-docs 6u30-1 (2)  
   Documentation for Oracle Java 6 Development Kit  
43 aur/bin32-jdk5 5u22-1 (2)  
   Oracle Java 5 Development Kit (32-bit) (public release - end of support)  
44 aur/jre8-openjdk-jetbrains-git  
8.u76.b241.r0.gf3983c7-1 (1)  
   OpenJDK Java 8 full runtime environment with JetBrains modifications  
45 aur/jre8-openjdk-headless-jetbrains-git  
8.u76.b241.r0.gf3983c7-1 (1)  
   OpenJDK Java 8 headless runtime environment with JetBrains modifications  
46 aur/jdk-dcevm 8u112-2 (1)  
   Oracle Java Development Kit with DCEVM patches  
47 aur/jdk8-openjdk-jetbrains-git  
8.u76.b241.r0.gf3983c7-1 (1)  
   OpenJDK Java 8 development kit with JetBrains modifications  
48 aur/java8-openjdk-hsdis 8.u112-1 (1)  
   Disassembler for HotSpot  
49 aur/denix-jdk8 8u77-1 (1)  
   Oracle Java 8 Development Kit (in /opt for servers)  
50 aur/bin32-jdk-devel 9b181-1 (1)  
   Oracle Java 9 Development Kit Snapshot (32-bit)  
  
Type numbers to install. Separate each number with a space.  
Numbers: 11
```

Once you've typed your selected number, push **Enter**. And when ask:

Proceed with installation? [Y/n] **y**

Edit jdk PKGBUILD with \$EDITOR? [Y/n] **n**

Edit jdk.install with \$EDITOR? [Y/n] **n**

...press **Enter** to the question that will do later.

3)

----- **Installation of LibreOffice** -----

OpenMeetings will need LibreOffice to convert to pdf the uploaded office files.

We install LibreOffice and Firefox (my Arch Linux installation have Mate desktop):

```
sudo pacman -S libreoffice firefox
```

...press **Enter** to any question.

4)

----- **Installation of necessary packages and libraries** -----

Will install packages and libraries that we'll need later:

(Only one line with space between both)

```
sudo pacman -S libjpeg ghostscript unzip gcc ncurses make zlib libtool bison bzip2 file-roller  
autoconf automake pkgconfig tomcat-native nmap curl freetype2 nano
```

5)

----- **Installation ImageMagick, Sox and Swftools** -----

**ImageMagick**, will work with images files jpg, png, gif, etc. We install it:

```
sudo pacman -S imagemagick
```

**Sox**, work the sound. Install it:

```
sudo pacman -S sox
```

**Swftools.** LibreOffice convert to pdf the uploaded office files, and Swftools convert these pdf to swf (flash file), that later will show in the whiteboard. Also convert jpg2swf, png2swf, gif2swf, etc. Don't install a newer version, surely have not pdf2swf as this repo version. So, we install it:

`packer swftools`

Will ask to type a number:

Type numbers to install. Separate each number with a space.

Numbers: ...type number **0**

Once you've typed the zero, push **Enter**. And when ask:

Proceed with installation? [Y/n] ...press **Enter**

Edit swftools PKGBUILD with \$EDITOR? [Y/n] **n**

[sudo] password for "your-user": ...type your user password and press **Enter**

¿Continue with the installation? [Y/n] ...press **Enter**

Now, we'll block the installed version, actually swftools-0.9.2-5, since contain pdf2swf.

For this, edit the pacman.conf file:

`sudo nano /etc/pacman.conf`

...search the line: `#IgnorePkg =`

...uncomment it: `IgnorePkg =`

...and add swftools: `IgnorePkg = swftools`

Press on keyboard, **Ctrl+x**, **Y** and **Enter**, to save changes and leave nano editor.

Keep this version and not update it, unless you have the security that the most recent version contains the pdf2swf file.

6)

#### ----- Installation of Adobe Flash Player -----

OpenMeetings even need Adobe Flash Player for rooms. We install it:

`sudo pacman -S flashplugin`

7)

## ----- Compilation of FFmpeg -----

FFmpeg work with video. Will install a libraries, paquets, and vlc to play the recordings that we'll make in OpenMeetings. Access as root to shell:

`su` ...will ask for root password

(Only one line with space between both)

`pacman -S glibc faac faad2 gsm imlib2 vorbis-tools autoconf automake cmake gcc git libtool make mercurial nasm pkgconfig yasm vlc qt4`

The ffmpeg compilation it is based on this url, updated file versions 22-9-2017:

<https://trac.ffmpeg.org/wiki/CompilationGuide/Centos>

I made a script that will download, compile and install ffmpeg. It is tested and works ok. The result of any recordings we do in OpenMeetings, will be in mp4 format.

When the compilation be finished, will appear a text announces it:

**FFMPEG Compilation is Finished!**

So, download the script:

`cd /opt`

`wget https://cwiki.apache.org/confluence/download/attachments/27838216/ffmpeg-archlinux.sh`

...concede execution permission to it:

`chmod +x ffmpeg-archlinux.sh`

...and run it (be connected to Internet):

`./ffmpeg-archlinux.sh`

The compilation will spend about 30 minutes.

When finished, please go to **step 8**).

But if you prefer, can copy and paste, though i **don't advise**.  
Leave here the commands script:

```
nano /opt/ffmpeg-arch.sh
```

...copy the green text **from here**:

```
# Script ffmpeg compile for Arch Linux
# Alvaro Bustos, thanks to Hunter.
# Updated 22-9-2017

# Create a temporary directory for sources.
SOURCES=$(mkdir ~/ffmpeg_sources)
cd ~/ffmpeg_sources

# Download the necessary sources.
# git clone --depth 1 git://git.videolan.org/x264
curl -#LO ftp://ftp.videolan.org/pub/x264/snapshots/last_stable_x264.tar.bz2
hg clone https://bitbucket.org/multicoreware/x265
git clone --depth 1 git://git.code.sf.net/p/opencore-amr/fdk-aac
curl -L -O http://downloads.sourceforge.net/project/lame/lame/3.99/lame-3.99.5.tar.gz
curl -O http://downloads.xiph.org/releases/opus/opus-1.1.5.tar.gz
curl -O http://downloads.xiph.org/releases/ogg/libogg-1.3.2.tar.gz
curl -O http://downloads.xiph.org/releases/vorbis/libvorbis-1.3.5.tar.gz
wget http://downloads.xiph.org/releases/theora/libtheora-1.1.1.tar.gz
git clone --depth 1 https://chromium.googlesource.com/webm/libvpx.git
git clone --depth 1 git://source.ffmpeg.org/ffmpeg
# wget http://ffmpeg.org/releases/ffmpeg-3.1.1.tar.gz

# Unpack files
for file in `ls ~/ffmpeg_sources/*.tar.*`; do
tar -xvf $file
done

cd x264-*/
./configure --prefix="$HOME/ffmpeg_build" --bindir="$HOME/bin" --enable-static && make &&
make install && make distclean; cd ..

cd x265/build/linux
cmake -G "Unix Makefiles" -DCMAKE_INSTALL_PREFIX="$HOME/ffmpeg_build"
-DENABLE_SHARED:bool=off ../../source && make && make install; cd ~/ffmpeg_sources

cd fdk-aac
autoreconf -fiv && ./configure --prefix="$HOME/ffmpeg_build" --disable-shared && make &&
make install && make distclean; cd ..

cd lame-*/
./configure --prefix="$HOME/ffmpeg_build" --bindir="$HOME/bin" --disable-shared --enable-
nasm && make && make install && make distclean; cd ..

cd opus-*/
autoreconf -fiv && ./configure --prefix="$HOME/ffmpeg_build" --disable-shared && make &&
make install && make distclean; cd ..
```

```

cd libogg-*/
./configure --prefix="$HOME/ffmpeg_build" --disable-shared && make && make install &&
make distclean; cd ..

cd libvorbis-*/
LDFLAGS="-L$HOME/ffmpeg_build/lib" CPPFLAGS="-I$HOME/ffmpeg_build/include"
./configure --prefix="$HOME/ffmpeg_build" --with-ogg="$HOME/ffmpeg_build" --disable-shared
&& make && make install && make distclean; cd ..

cd libtheora-*/
./configure --prefix="$HOME/ffmpeg_build" --with-ogg="$HOME/ffmpeg_build" --disable-
examples --disable-shared --disable-sdltest --disable-vorbistest && make && make install; cd ..

cd libvpx
./configure --prefix="$HOME/ffmpeg_build" --disable-examples && make && make install &&
make clean; cd ..

cd ffmpeg
PKG_CONFIG_PATH="$HOME/ffmpeg_build/lib/pkgconfig" ./configure
--prefix="$HOME/ffmpeg_build" --extra-cflags="-I$HOME/ffmpeg_build/include" --extra-
ldflags="-L$HOME/ffmpeg_build/lib" --bindir="$HOME/bin" --pkg-config-flags="--static"
--enable-gpl --enable-nonfree --enable-libfdk_aac --enable-libfreetype --enable-libmp3lame
--enable-libopus --enable-libvorbis --enable-libvpx --enable-libx264 --enable-libx265 --enable-
libtheora && make && make install && make distclean && hash -r; cd ..

cd ~/bin
cp ffmpeg ffprobe ffserver lame x264 /usr/local/bin

cd ~/ffmpeg_build/bin
cp x265 /usr/local/bin

echo "FFmpeg Compilation is Finished!"

```

**...to here.**

Concede permission of execution:

```
chmod +x /opt/ffmpeg-arch.sh
```

```
cd /opt
```

Now be connected to Internet, run the script and wait about 30 minutes while the compilation is finished:

```
./ffmpeg-arch.sh
```

All the compiled files will be installed in: /usr/local/bin



8)

## ----- Installation of MariaDB data server -----

MariaDB is the data server. We install it: (continue as root in shell)

```
pacman -S mariadb
```

Initialize data directories (be connected to Internet):

```
mysql_install_db --user=mysql --basedir=/usr --datadir=/var/lib/mysql
```

...and run MariaDB:

```
systemctl start mysqld
```

Give a password to MariaDB root . Please, modify **new-password** by your own and remember it:

```
mysqladmin -u root password new-password
```

Access to MariaDB:

```
mysql -u root -p
```

...will ask for the password you does just now.

Make a database called open332, for OpenMeetings. User password must be of 8 digits minimum:

```
MariaDB [(none)]> CREATE DATABASE open332 DEFAULT CHARACTER SET 'utf8';
```

Now we create a user with all permission on this open332 database:

(Only one line with space between both)

```
MariaDB [(none)]> GRANT ALL PRIVILEGES ON open332.* TO 'hola'@'localhost'  
IDENTIFIED BY '1a2B3c4D' WITH GRANT OPTION;
```

```
* open332 ..... name of the database  
* hola ..... user for that database  
* 1a2B3c4D .....password of this user
```

You can change the data, but...remember it! Later we'll need it.  
We leave MariaDB:

```
MariaDB [(none)]> quit
```

9)

----- Installation of OpenMeetings -----

We'll install OpenMeetings in /opt/red5332. All the following information will be based on this directory.

Call to our folder of installation red5332

Make that folder:

```
mkdir /opt/red5332
```

```
cd /opt/red5332
```

...and download the OpenMeetings file:

```
wget http://apache.miloslavbrada.cz/openmeetings/3.3.2/bin/apache-openmeetings-3.3.2.zip
```

```
unzip apache-openmeetings-3.3.2.zip
```

...save the unloaded file to /opt:

```
mv apache-openmeetings-3.3.2.zip /opt
```

Download and install the connector between OpenMeetings and MariaDB:

```
cd /opt
```

(Only one line without space between both)

```
wget http://repo1.maven.org/maven2/mysql/mysql-connector-java/5.1.42/mysql-connector-java-5.1.42.jar
```

...and copy it to where must be:

```
cp /opt/mysql-connector-java-5.1.42.jar /opt/red5332/webapps/openmeetings/WEB-INF/lib
```

Now we are going to configure OpenMeetings for our database in MariaDB:

```
nano /opt/red5332/webapps/openmeetings/WEB-INF/classes/META-INF/mysql_persistence.xml
```

**Modify in line 72:**

```
, Url=jdbc:mysql://localhost:3326/openmeetings_3_3?
```

...to

, Url=jdbc:mysql://localhost:3326/open332?

...it is the name of the database that we did initially.

Press on keyboard, **Ctrl+x, Y** and **Enter**, to save changes and exit nano editor.

Logically, if initially you choose another database name, you will type it here.

Protect the access to the file:

(Only one line without space between both)

`chmod 640 /opt/red5332/webapps/openmeetings/WEB-INF/classes/META-INF/mysql_persistence.xml`

10)

----- Script to launch red5-OpenMeetings -----

We make the folder /etc/init.d, where put the red5 run script:

`mkdir /etc/init.d`

Download the script to run red5-OpenMeetings:

`cd /opt`

`wget https://cwiki.apache.org/confluence/download/attachments/27838216/red5-2`

...copy it to where must be:

`cp red5-2 /etc/init.d/`

...concede execution permission:

`chmod +x /etc/init.d/red5-2`

If you would made the installation in any other different path to /opt/red5332, please edit the script and modify the line:

`RED5_HOME=/opt/red5332`

...to

RED5\_HOME=/your-path-installation

11)

----- Run red5-OpenMeetings -----

Restart MariaDB:

```
systemctl restart mysqld
```

...and run red5-OpenMeetings. Please, open a new terminal as root, and be connected to Internet, so the running will be quick:

```
/etc/init.d/red5-2 start
```

...wait until the text “**clearSessionTable: 0**”, it is the last in the shell. Then, go with the browser to:

<http://localhost:5080/openmeetings/install>

...there will appear a page similar to this one:

**OpenMeetings**

1. Enabling import of PDFs into whiteboard

- o Install **GhostScript** on the server, you can get more information on <http://pages.cs.wisc.edu/~ghost/> regarding installation. The instructions for installation can be found there, however on most linux systems you can get it via your favorite package managers (apt-get it).
- o Install **SWFTools** on the server, you can get more information on <http://www.swftools.org/> regarding installation. Some of the Linux distributions already have it in there package manager see <http://packages.debian.org/unstable/utils/swftools>, the recommended version of **SWFTools** is 0.9 as prior version have a bug that does lead to wrong object dimensions in the Whiteboard

**If you have further questions or need support in installation or hosting:**


**Community-Support:**

Mailing lists

**Commercial-Support:**

Commercial-Support

< > >> Finish

...push on  (bottom), and will show the default configuration with Derby, but we employ MySQL (MariaDB):

**OpenMeetings**

**DB configuration**

**Recommendation for production environment**

By default OpenMeetings uses the integrated Apache Derby database. For production environment you should consider using MySQL, PostgreSQL, IBM DB2, MSSQL or Oracle

**NOTE** Please use unpredictable DB login and 'strong' password with length 8 characters or more.

**Choose DB type**

**Specify the name of the database**

...so, scroll and **Choose DB type** to MySQL:

**OpenMeetings**

**DB configuration**

**Recommendation for production environment**

By default OpenMeetings uses the integrated Apache Derby database. For production environment you should consider using MySQL, PostgreSQL, IBM DB2, MSSQL or Oracle

**NOTE** Please use unpredictable DB login and 'strong' password with length 8 characters or more.

**Choose DB type**

**Specify DB host**

**Specify DB port**

**Specify the name of the database**

**Specify DB user**

**Specify DB password**

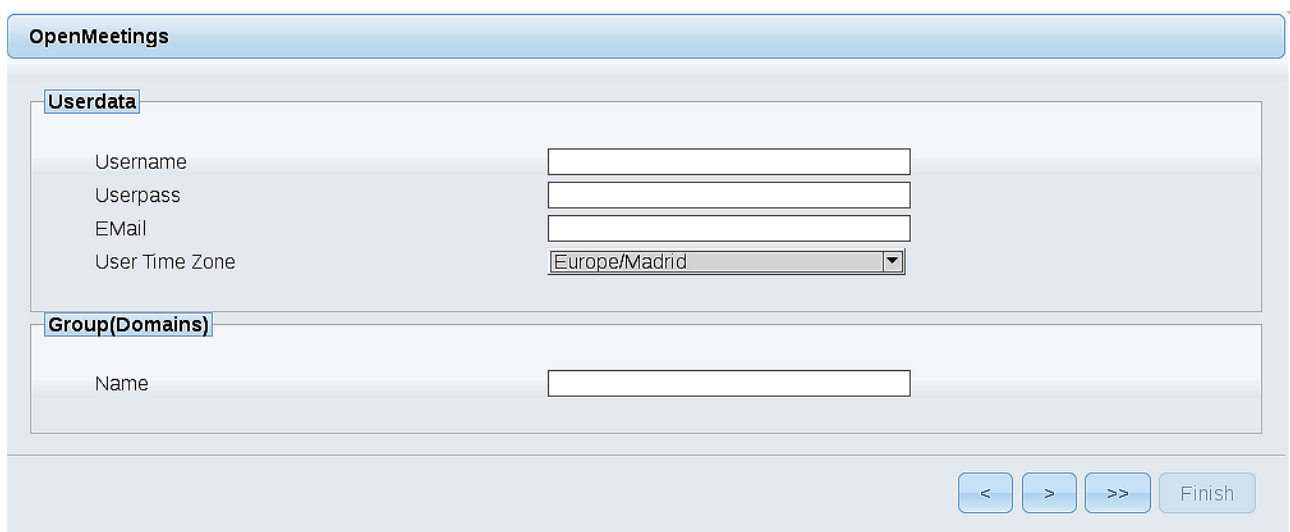
...and will show the database name, we made in the step 9.  
If you`ve choose any other different name for this, will show equally.

Now we must introduce the user name we did for our data base, at the step 8, and his password:

**Specify DB user** = hola

**Specify DB password** = 1a2B3c4D

Press  button, and will go to:



Here, we must introduce a user name for OpenMeetings, and his password. This must have 8 digits minimum, and at least 1 special symbol like: +(%#!...etc.


**Username** = a-name ...this user will be administrator.

**Userpass** = a-password ...for the previous user.

**Email** = email-adress ...of this previous user.

**User Time Zone** = country where is this server.

**Name** = example-openmeetings ...group name to choose.

Press the button  and will lead us to a new page (below) where you can select the language for your OpenMeetings server, as well as other options such as the configuration of the mail server being used to send invitations or meetings from OpenMeetings:

**OpenMeetings**

**Configuration**

Allow self-registering (allow_frontend_register)	Yes
Send Email to new registered Users (sendEmailAtRegister)	No
New Users need to verify their EMail (sendEmailWithVerificationCode)	No
Default Rooms of all types will be created	Yes
Mail-Referer (system_email_addr)	noreply@openmeetings.apache.org
SMTP-Server (smtp_server)	localhost
SMTP-Server Port(default SmtP-Server Port is 25) (smtp_port)	25
SMTP-Username (email_username)	
SMTP-Userpass (email_userpass)	
Enable TLS in Mail Server Auth	No
Set inviter's email address as ReplyTo in email invitations (inviter.email.as.replyto)	Yes
Default Language	inglés
Default Font for Export [default_export_font]	TimesNewRoman

<
>
>>
Finish

A valid example to configure the mail server with Gmail, is as follows:  
(replace **john@gmail.com** with your real Gmail account)

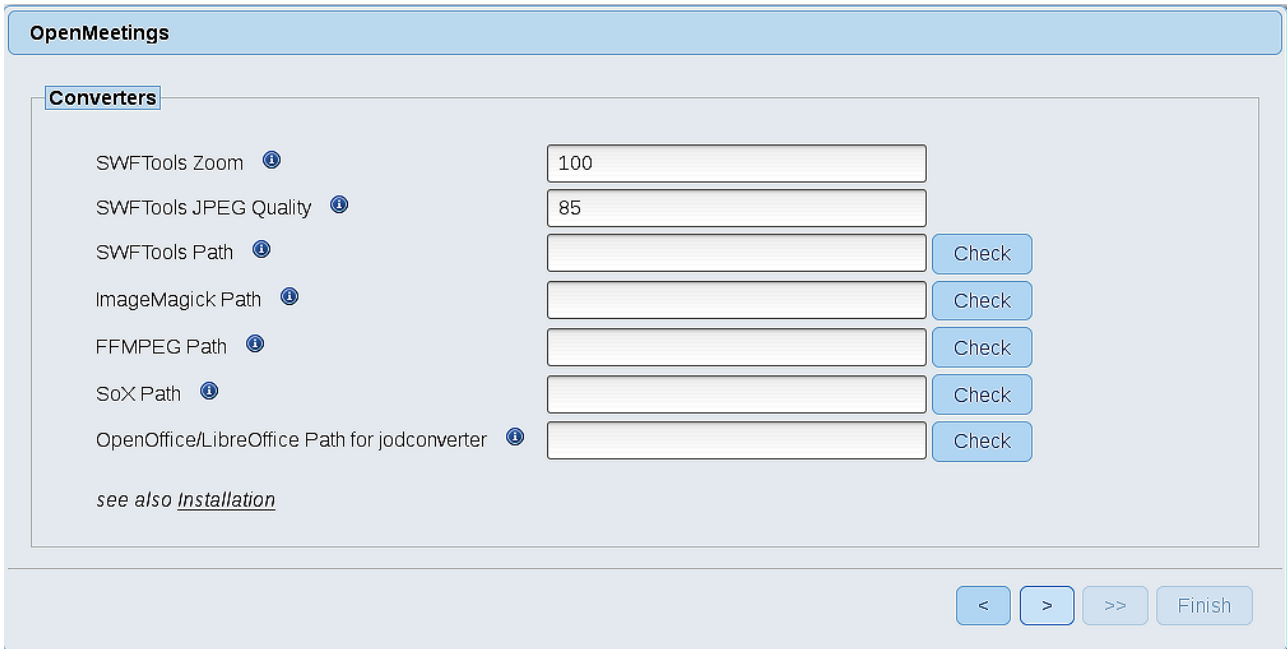
<b>Mail-Refer (system_email_addr)</b>	==	<a href="mailto:john@gmail.com">john@gmail.com</a>
<b>SMTP-Server (smtp_server)</b>	==	<a href="mailto:smtp@gmail.com">smtp@gmail.com</a>
<b>SMTP-Server Port (default SmtP-Server Port is 25) (smtp_port)</b>	==	587
<b>SMTP-Username (email_username)</b>	==	<a href="mailto:john@gmail.com">john@gmail.com</a>
<b>SMTP-Userpass (email_userpass)</b>	==	password of john@gmail.com
<b>Enable TLS in Mail Server Auth</b>	==	Yes

To select the language of your server OpenMeetings, please scroll on the line:

<b>Default Language</b>	==	<a href="#">english</a>
-------------------------	----	-------------------------

...the rest we can leave as is.

Now press the button  and a new page will appear:



**OpenMeetings**

**Converters**

SWFTools Zoom ⓘ

SWFTools JPEG Quality ⓘ

SWFTools Path ⓘ

ImageMagick Path ⓘ

FFMPEG Path ⓘ

SoX Path ⓘ

OpenOffice/LibreOffice Path for jodconverter ⓘ

see also [Installation](#)

< > >> Finish

Here we'll introduce the respective paths for the image, video, audio and conversion of uploaded files:

**SWFTools Path** == [/usr/bin](#)


**ImageMagick Path** == [/usr/bin](#)

**FFMPEG Path** == [/usr/local/bin](#)

**SOX Path** == [/usr/bin](#)

**OpenOffice/LibreOffice Path for jodconverter** == [/usr/lib/libreoffice](#)

As you go introducing routes, you can check if they are correct by pressing the button labeled **Check**. If it does not display any error message, that is OK.

Once completed the paths, please click the  button and move on to another page that would be to activate the SIP. We will leave it as is, unless you want to activate it knowing what it does:



OpenMeetings

**Crypt Type**  

Crypt Class

*You can use this default crypt type which is equal to PHP-MD5 function or BSD-Style encryption by using: **org.apache.openmeetings.util.crypt.MD5CryptImplementation** for more information or to write your own Crypt-Style see: [Custom Crypt Mechanism](#) You can edit this value later BUT previous created Users and Sessions might be not usable anymore*

**red5SIP Configuration**  

Enable SIP

*Enable red5SIP integration*

SIP rooms prefix

*Prefix for phone number of conference rooms*

SIP extensions context

*Context of Asterisk extensions*

Now, touch the button  Will show this window:

OpenMeetings

Please click "Finish" button to start installation!

Press **Finish** button...wait a seconds untill the tables are fill in our database.

When is concluded, this another page will appear. **Don't** clic on [Enter the Application](#).  
 First is need it to restart red5 server. Please, be connectd to Internet. Open a new terminal as root:

[/etc/init.d/red5-2 restart](#)

OpenMeetings

[Enter the Application](#)

Database was changed, please restart application to avoid possible issues

If your Red5-Server runs on a different Port or on a different domain  
alter the config values of the client

**Mailing list**  
<http://openmeetings.apache.org/mail-lists.html>

**There are some companies that also offer commercial support for Apache OpenMeetings:**  
<http://openmeetings.apache.org/commercial-support.html>

< > >> Finish

Now yes, you can clic on [Enter the Application](#), or go with your browser to:

<http://localhost:5080/openmeetings>

...and will take us to the entry of OpenMeetings:

**Login**

Username or mail address

Password

Remember login

[Forgotten your password?](#) [Network testing](#)

Introduce the user's name and the password, that you have choosen during the installation, push **Sign in** button, and...

**...Congratulations!**

The next time that you like to accede OpenMeetings, would be:

<http://localhost:5080/openmeetings>

Remember to open in the server, the two following ports:

**1935 5080**

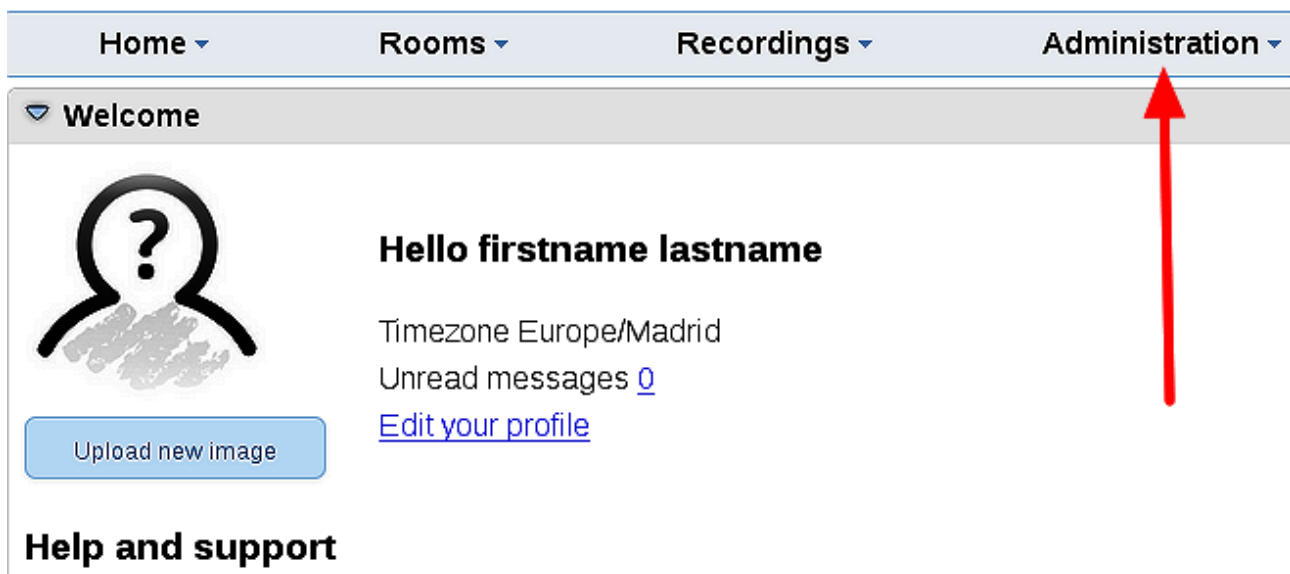
...in order that it could accede to OpenMeetings from other machines in Lan or Internet.

12)

**----- OpenMeetings's configuration -----**

Once you acced to OpenMeetings, if you would like to do any modification in the configuration, please go to:

**Administration → Configuration**



...and following the order of the red arrows:

ID	Key	Value
4	allow.oauth.register	1
5	default_group_id	1
6	smtp_server	localhost
7	smtp_port	25
8	system_email_addr	noreply@openmeetings.apache.org
9	email_username	
10	email_userpass	
11	mail.smtp.starttls.enable	0
12	mail.smtp.connection.timeout	30000
13	mail.smtp.timeout	30000
14	application.name	OpenMeetings
15	default_lang_id	1
16	swftools_zoom	100
17	swftools_jpegquality	85
18	swftools_path	
19	imagemagick_path	
20	sox_path	
21	ffmpeg_path	
22	office.path	

**Configuration**

Key: swftools\_path

Value:

Last update:

Updated by:

Comment: Path To SWF-Tools

1 → (row 18)

2 → (Value field)

3 → (Configuration window)

And this is all.



If you have some doubt or question, please raise it in the Apache OpenMeetings forums:

<http://openmeetings.apache.org/mail-lists.html>



Thank you.

Alvaro Bustos