

Installation of Apache OpenMeetings 3.3.0 on macOS Sierra

It is tested with positive result. We will use the Apache's binary version OpenMeetings 3.3.0 stable, that is to say will suppress his compilation. It is done step by step.

14-7-2017

	Installation of Command line developer tools
1)	
-	

We'll install in first place the developer tools, that will help us to compile the sources.

Run the shell as administrator, not as root, and install:

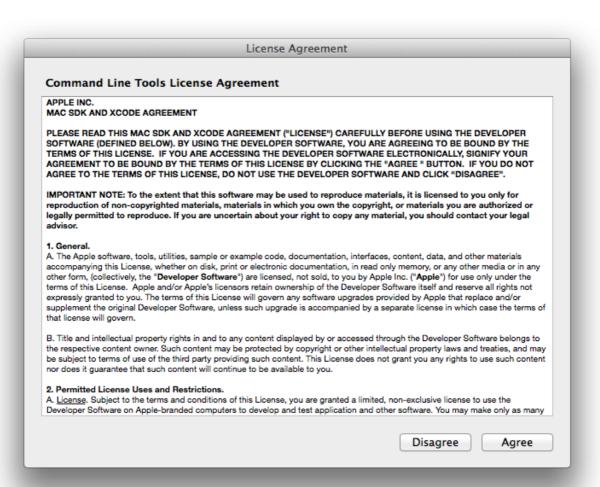
xcode-select --install

Starting....

...will open a window informing:



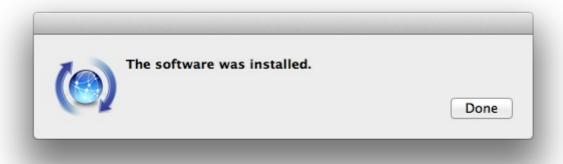
clic Install button only, and will open other window. clic Agree button



...and will download and install the software



...telling when it finished



...clic Done.

2)

----- Installation of Homebrew -----

Homebrew install software. It is on Mac the same that apt-get on Debian or Ubuntu, yum on Centos or dnf on Fedora, for example. Install it:

ruby -e "\$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)"

and update:
brew update
3)
Installation of need it paquets
Will install wget to download files, and ghostscript. After the installation, will ask to run a commands. Attention!:
brew install wget ghostscript nmap
4)
Installation of Oracle Java 1.8
Java 1.8 is need it to work OpenMeetings 3.3.0 . Will install Oracle Java 1.8.
Java 1.6 is need it to work Openivicetings 3.5.6. With instant Oracle Java 1.6.
Please, visit:
Please, visit:
Please, visit: http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html
Please, visit: http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html clic on:
Please, visit: http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html clic on: Agree and proceed
Please, visit: http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html clic on: Agree and proceed check:

Once unloaded the file, do clic on it and follow the installation process by default.

----- Installation of OpenOffice -----

OpenOffice is need it to convert the office files uploaded to pdf.

To download please visit:

http://www.openoffice.org/download/

...select and download:

OS X (version \geq 10-7) (DMG) language 4.1.3

Download full installation

Do clic on the unloaded file: **Apache_OpenOffice_4.1.3_MacOS_x86-64_install....** and will open this window:



1	1	A	Occ	•	4 -	1.4	4 -	A	. 1:	. 4	C-11	•
please,	arao	Unen	Ultice	1COn	to	riont	TO.	Anı	กมดร	itions	tolder	1COn
prease	, 4145	Open	OHICC	10011	·	1151109	10 1	LAP	71100		101461	TO OII.

6) Installation of ImageMagick, Sox, Swftools and Vlc					
ImageMagick, work with the image files as png, jpg, gif, etc.					
Sox, work about sound. Install both:					
brew install imagemagick sox					
ImageMagick and Sox will be installed in: /usr/local/bin					
Swftools. OpenOffice convert to pdf the uploaded office files, and Swftools convert these pdf to swf, flash files, that later will show in the white board. Also convert jpg2swf, png2swf, gif2swf, etc. Don't install a newer version, maybe have not pdf2swf. Download from here:					
https://storage.googleapis.com/google-code-archive-downloads/v2/code.google.com/flexpaper-desktop-publisher/swftools-0.9.2-1-osx10.6.dmg					
clic on swftools-0.9.2-1-osx10.6.dmg file unloaded and install by default.					
Swftools will be installed in: /opt/local/bin					
Vlc, is the player for the video files we'll recording.					
brew install Caskroom/cask/vlc					
7) Installation of Adobe Flash Player					
Flash Player even is need it for rooms. Download and install it:					
http://fpdownload.macromedia.com/pub/flashplayer/latest/help/install_flash_player_osx.dmg					
clic on the <u>install_flash_player_osx.dmg</u> file and install it by default.					
8) FFmpeg compilation					

https://trac.ffmpeg.org/wiki/CompilationGuide/MacOSX

FFmpeg work about video. We'll compile it. For it base on this url:

...to wich i've added x265. Don't build a script, because the number of steps it is minimum. The result of any recording we do in OpenMeetings, will be in mp4 format. Install some paquets and libraries:

(Only one line with space between both)

brew install automake fdk-aac git lame libass libtool libvorbis libvpx opus sdl shtool texi2html theora wget x264 xvid yasm x265

We place at our home. Attention, modify **you-user** by your real username:

cd /Users/you-user

git clone --depth 1 git://source.ffmpeg.org/ffmpeg

cd ffmpeg

(Only one line with space between each one)

./configure --prefix=/usr/local --enable-gpl --enable-nonfree --enable-libass --enable-libfdk-aac --enable-libfreetype --enable-libmp3lame --enable-libopus --enable-libtheora --enable-libvorbis --enable-libvpx --enable-libx264 --enable-libxvid --enable-libx265

make (spend about 10 minutes)

sudo make install (will ask for the user password)

...ffmpeg it is installed in /usr/local/bin

9) ----- Installation of MariaDB data server -----

Our data server will be MariaDB. We install it:

brew install mariadb

Once the installation is finished, run it:

mysql.server start

...and give a root MariaDB password. Please, modify **new-password** by one of your whish:

mysqladmin -u root password new-password

10) ----- Build a data-base for OpenMeetings -----

Make a data.base for OpenMeetings.

```
Run MariaDB, if not:
mysql.server start
...accede:
mysql -u root -p
...will ask for the password just we made it. And now we'll make our data-base:
MariaDB [(none)]> CREATE DATABASE open330 DEFAULT CHARACTER SET 'utf8';
Now we create a user with all permission on this open 330 database. User password must be of 8
digits minimum:
                             (One line only with a space between both)
MariaDB [(none)]> GRANT ALL PRIVILEGES ON open330.* TO 'hola'@'localhost'
IDENTIFIED BY '1a2B3c4D' WITH GRANT OPTION;
...and leave MariaDB:
MariaDB [(none)]> quit
                         * open330 ..... is the data-base name
                         * hola ..... is the name of the user for this data-base
                         * 1a2B3c4D ..... is the password of that user.
If you like it can modify these data, but remember it! Will need it later.
11)
                              ----- Installation of OpenMeetings -----
Well, we are at the installation of OpenMeetings. We'll do it in: (Remember modify you-user)
/Users/you-user/red5330
...then make the folder:
mkdir /Users/you-user/red5330
```

...remember always modify .../you-user/... by your real user name.

Download Apache-OpenMeetings file to the installation folder:

cd /Users/you-user/red5330

wget http://apache.miloslavbrada.cz/openmeetings/3.3.0/bin/apache-openmeetings-3.3.0.zip

unzip apache-openmeetings-3.3.0.zip

...save the unloaded file moving it to your home:

mv apache-openmeetings-3.3.0.zip /Users/you-user

Download and install the connector file between OpenMeetings and MySQL:

cd /Users/you-user

(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 his place:

(Only one line with a space between both)

cp /Users/**you-user**/mysql-connector-java-5.1.42.jar /Users/**you-user**/red5330/webapps/openmeetings/WEB-INF/lib

12)

----- Configuration of the data-base on OpenMeetings -----

We'll configure the file that do connect OpenMeetings with MaraDB.

(Only one line without space between both)

nano /Users/**you-user**/red5330/webapps/openmeetings/WEB-INF/classes/META-INF/mysql persistence.xml

Modify line 72:

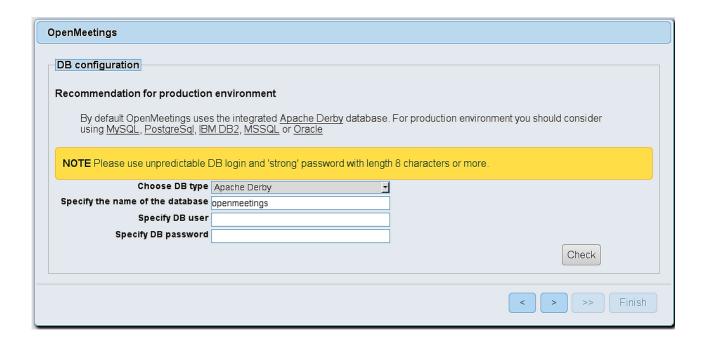
, Url=jdbc:mysql://localhost:3306/openmeetings 3 3?

```
...to
, Url=jdbc:mysql://localhost:3306/open330?
...is the name of our data-base we made it.
If you have choose any other name for the data-base, here is where to type it.
clic Ctrl+X, will ask to save, clic Y and to exit clic Retutn (Enter.)
Now, protect the file:
                             (Only one line without space between both)
chmod 640 /Users/you-user/red5330/webapps/openmeetings/WEB-INF/classes/META-
INF/mysql persistence.xml
...remember modify .../you-user/...by your real user name.
13)
                            ----- Script to run red5-OpenMeetings -----
I suppress to leave here the text script because copy and paste will give errors.
So please download the script to run-stop red5-OpenMeetings.
cd /Users/you-user
wget https://cwiki.apache.org/confluence/download/attachments/27838216/red5-mac2
It is necessary to modify something inside the script. We edit it:
nano /Users/you-user/red5-mac2
...modify the line:
export RED5 HOME=/Users/you-user/red5330
....change /you-user/ by your real user name.
...press Ctrl+x, will ask to save, press Y and Return (Enter).
...we copy it to /opt:
sudo su
cp /Users/you-user/red5-mac2 /opt
```

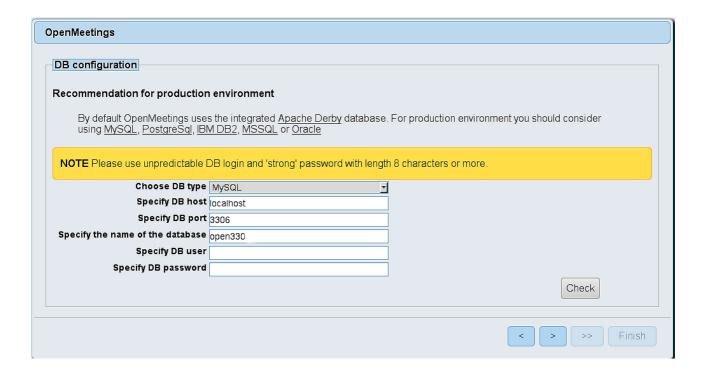
< > >> Finish

concede execution permission:					
chmod +x /opt/red5-mac2					
and leave as superuser:					
exit					
14) Run red5-OpenMeetings					
Begin with the interface of OpenMeetings.					
Run MariaDB, if not:					
mysql.server start					
and run red5-OpenMeetings from other window terminal. Please, be connected to Internet:					
/opt/red5-mac2 start					
wait till 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					
 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). 					
 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:					
<u>Commercial-Support</u>					

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



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



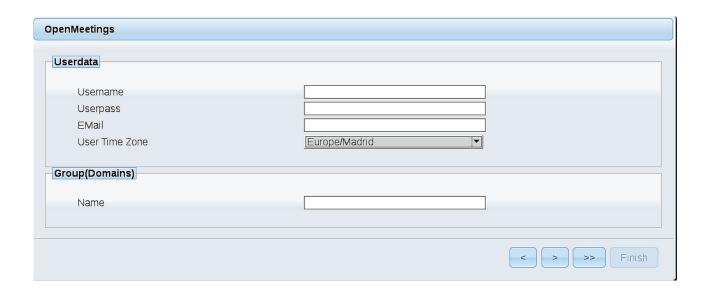
...and will show the data base configuration we made in step 12.

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 10, and his password:

Specify DB user = hola

Specify DB password = 1a2B3c4D

Please, 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 = password ... for the previous user.

Email = email-adress ... of the 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 v	
Send Email to new registered Users (sendEmailAtRegister)	No 🔻	
New Users need to verify their EMail (sendEmailWithVerficationCode)	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 v	
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)

Mail-Refer (system_email_addr)= john@gmail.comSMTP-Server (smtp_server)= smtp.gmail.comSMTP-Server Port (default Smtp-Server Port is 25)
(smtp_port)= 587SMTP-Username (email_username)= john@gmail.comSMTP-Userpass (email_userpass)= password of john@gmail.comEnable TLS in Mail Server Auth= Yes

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

Default Language = english

...the rest we can leave as is.

Now press the button > and a new page will appear:



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

SWFTools Path == /opt/local/bin

ImageMagick Path == /usr/local/bin

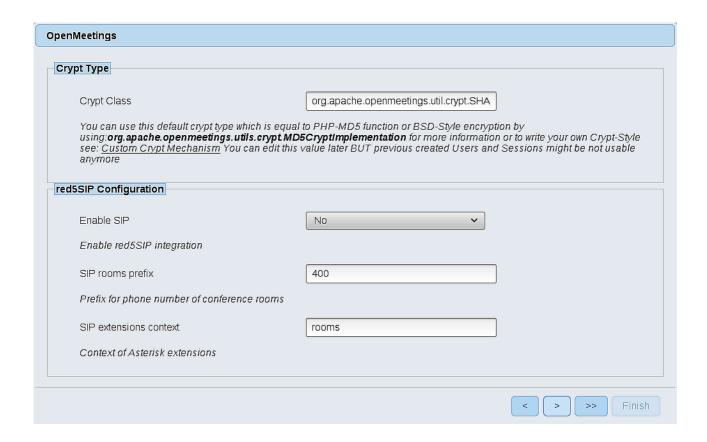
FFMPEG Path == /usr/local/bin

SOX Path == /usr/local/bin

OpenOffice/LibreOffice Path for jodconverter == /Applications/OpenOffice.app/Contents

As you go introducing paths, 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 press 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:



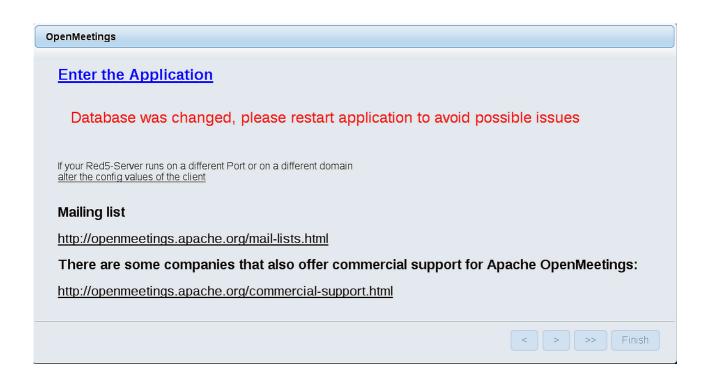
Now push the button Will show this window:



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

When has concluded, this another page will appear. Don't clic on **Enter the Application**. First is need it to restart red5. Open a new terminal, and run this command (connected to Internet):

/opt/red5-mac2 restart



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:



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

... Congratulations!

The next time that you like accese to OpenMeetings, will be:

http://localhost:5080/openmeetings

Remember to open in the server the two following ports:

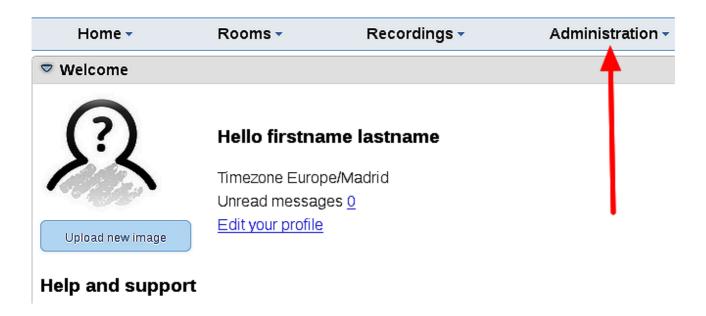
1935 5080

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

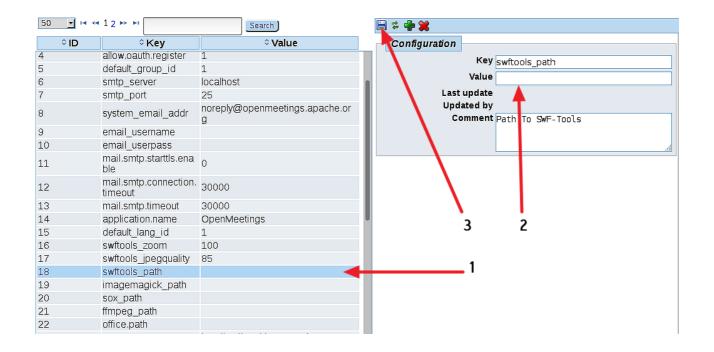
15) ----- Configuration of OpenMeetings -----

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:



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