

# **Installation of Apache OpenMeetings 4.0.10 on macOS Catalina 10.15**

It is tested with positive result. We will use the Apache's binary version OpenMeetings 4.0.10 stable, that is to say will suppress his compilation. It is done step by step.

14-12-2019

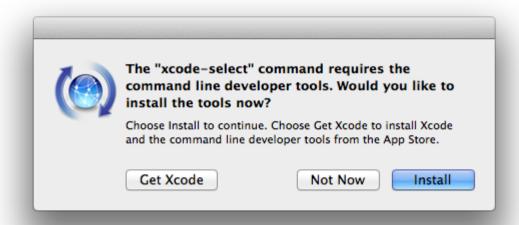
Starting	
1)	
Insta	allation of Command line developer tools
We'll install in first place the deve	eloper tools, that will help us to compile the sources.

Please be connected to Internet at any moment.

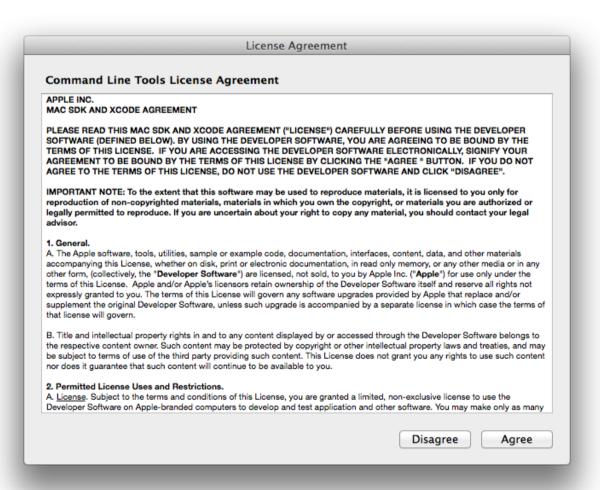
Run the shell as administrator, not as root, and install:

xcode-select --install

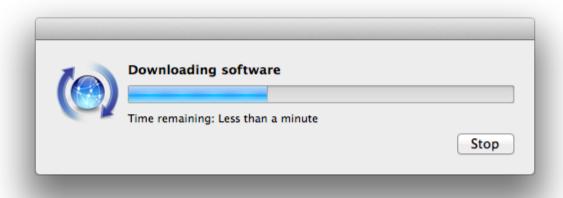
...will open a window informing:



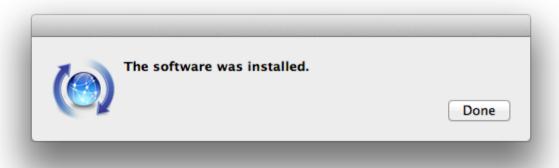
clic Install button only, and will open other window. clic Agree button



...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)"

brew doctor		
and update:		
brew update		
brew upgrade		
3)		
Installation of needed 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 Java		
Java 1.8 minimum is needed to work OpenMeetings 4.0.10. Will install Oracle Java 1.8.		
Please change you-user by your real Mac user name:		
Trease change you aser by your real ivide aser manie.		
cd /Users/you-user		
cd /Users/you-userdownlod the java file:		
cd /Users/you-userdownlod the java file:  (Only one line without space between both)		
cd /Users/you-userdownlod the java file:		
cd /Users/you-userdownlod the java file:  (Only one line without space between both)  wget https://github.com/frekele/oracle-java/releases/download/8u212-b10/jdk-8u212-macosx-		
cd /Users/you-userdownlod the java file:  (Only one line without space between both)  wget https://github.com/frekele/oracle-java/releases/download/8u212-b10/jdk-8u212-macosx-x64.dmg		

## ----- 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 4.1.7

Download full installation

Do clic on the unloaded file: **Apache\_OpenOffice\_4.1.7\_MacOS\_x86-64\_install....** and will open this window:



After that, run manually <b>OpenOffice</b> from <b>Applications</b> ( <b>right clic =&gt; "Open"</b> ) and close it later.		
6)		
Installation of ImageMagick, Sox 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		
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 cam. Download and install it:		
Flash Player even is need it for cam. Download and install it: <a href="http://fpdownload.macromedia.com/pub/flashplayer/latest/help/install_flash_player_osx.dmg">http://fpdownload.macromedia.com/pub/flashplayer/latest/help/install_flash_player_osx.dmg</a>		
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http://fpdownload.macromedia.com/pub/flashplayer/latest/help/install_flash_player_osx.dmg clic on the install_flash_player_osx.dmg file and install it by default.  8)  FFmpeg's installation  FFmpeg work about video.We'll employ a binarie file yet compiled.		
http://fpdownload.macromedia.com/pub/flashplayer/latest/help/install_flash_player_osx.dmg clic on the install_flash_player_osx.dmg file and install it by default.  8)  FFmpeg's installation  FFmpeg work about video.We'll employ a binarie file yet compiled. Change you-user by your real user name. Download ffmpeg, ffplay and ffprobe:		

...please, drag OpenOffice icon to right Applications folder icon.

wget https://evermeet.cx/ffmpeg/ffplay-4.2.1.7z

```
Please, go to "Downloads" folder, where are the downloaded files, and:
right clic on each 7z file => Open
...so we uncompress the 7z files and will appear the files ffmpeg, ffplay and ffprobe.
We copy them to usrlocal/bin. For thar we acced as super user to terminal:
sudo su
             ...will ask for user password
cp ffmpeg ffplay ffprobe /usr/local/bin
...and exit of super user:
exit
With this is finish the ffmpeg installation.
The recording we'll make on OpenMeetings should be mp4 format.
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
...now give a root password in MariaDB:
mysq1
use mysql;
...modify password by one of you like:
grant all privileges on *.* to root@'localhost' identified by 'password' with grant option;
...and exit MariaDB:
quit
```

10) Building a database 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 open4010 DEFAULT CHARACTER SET 'utf8';		
now we create a user with all permission on this open4010 database. User password must be of 8 digits minimum:		
(One line only with a space between both)		
MariaDB [(none)]> GRANT ALL PRIVILEGES ON open4010.* TO 'hola'@'localhost' IDENTIFIED BY '1a2B3c4D' WITH GRANT OPTION;		
and exit MariaDB:		
MariaDB [(none)]> quit		
* open4010 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/red54010
...then make the folder:
mkdir /Users/you-user/red54010
...remember always modify .../you-user/... by your real user name.
Download Apache-OpenMeetings file to the installation folder:
cd /Users/you-user/red54010
wget http://archive.apache.org/dist/openmeetings/4.0.10/bin/apache-openmeetings-4.0.10.tar.gz
tar xzvf apache-openmeetings-4.0.10.tar.gz
...save the unloaded file moving it to your home:
mv apache-openmeetings-4.0.10.tar.gz /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/5.1.48/mysql-connector-java-
5.1.48.jar
...and copy it to his place:
                              (Only one line with space between both)
cp/Users/you-user/mysql-connector-java-5.1.48.jar
/Users/you-user/red54010/webapps/openmeetings/WEB-INF/lib
12)
                            ----- 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: (change /you-user/ by your real user name)
export RED5 HOME=/Users/you-user/red54010
...press Ctrl+x, will ask to save, press Y and Return (Enter) to exit nano..
sudo su
             ...acces as superuser
...we copy the script red5-mac2 to /opt:
cp /Users/you-user/red5-mac2 /opt
...concede execution permission:
chmod +x /opt/red5-mac2
...and exit as superuser:
exit
13)
                                  ----- Run red5-OpenMeetings -----
Begin with the interface of OpenMeetings.
Run MariaDB, "if is not":
mysql.server start
```

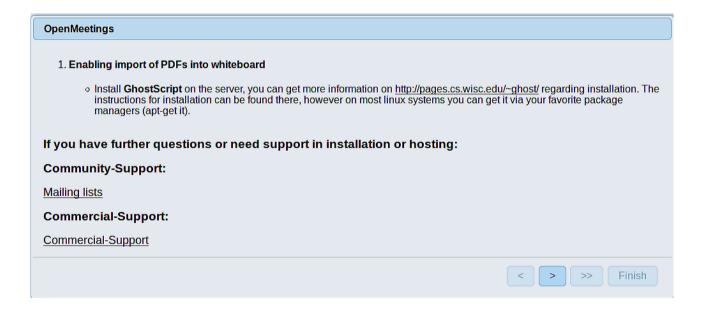
...and run red5-OpenMeetings from other window terminal. Please, be connected to Internet:

#### /opt/red5-mac2 start

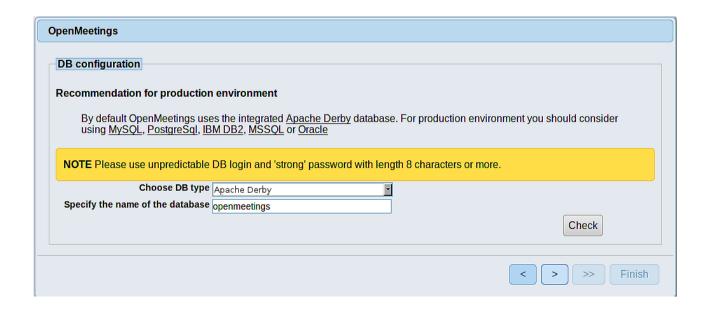
...wait about 40 seconds in order red5 can run completly. Then, go with the browser to:

## http://localhost:5080/openmeetings

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



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



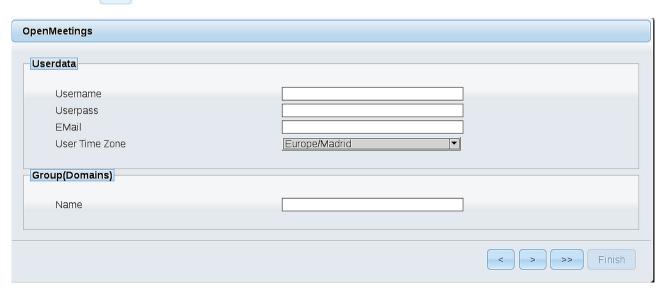
...so, scroll and Choose DB type to MySQL:

OpenMeetings
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 MySQL  Specify DB host localhost  Specify DB port 3306  Specify the name of the database openmeetings  Specify DB user  Specify DB password  Check
< > >> Finish

Now we must introduce the database name, user name and his password we did at the step 10:

Specify the name of the database = open4010 Specify DB user = hola Specify DB password = 1a2B3c4D

...if you choose any different data, here is where type it. 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.

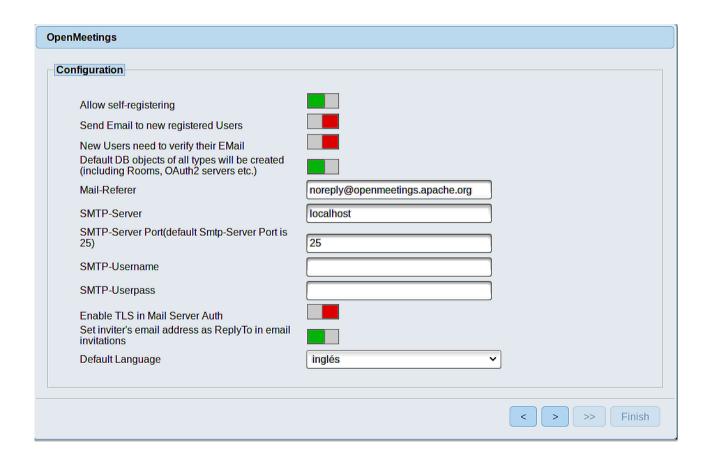
**Userpass** = password ...for the previous user.

**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:



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

Mail-Refer == john@gmail.com

SMTP-Server == smtp.gmail.com

SMTP-Server Port (default Smtp-Server Port is 25)

SMTP-Username == john@gmail.com

**SMTP-Userpass** == password of john@gmail.com

587

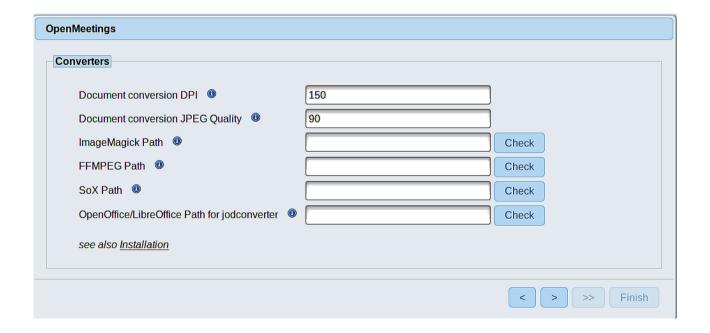
Enable TLS in Mail Server Auth = ...turn green the button to activate

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

**Default Language** == ...select your language

...the rest you can change it as you like.

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:

ImageMagick Path == /usr/local/bin

FFMPEG Path == /usr/local/bin

**SOX Path** == /usr/local/bin

OpenOffice/LibreOffice Path for jodconverter

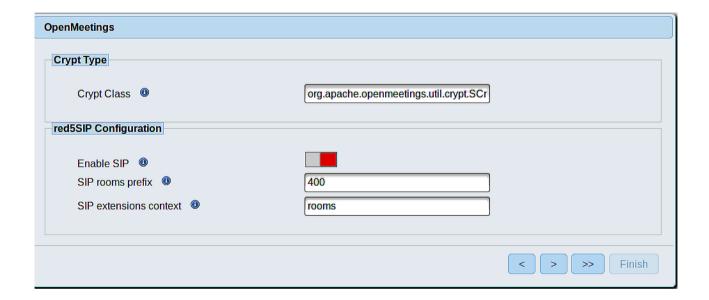
== /Applications/OpenOffice.app/Contents

Attention!... once you have entered the above path and press the button it will all look still and "IF" a small window appears warning that "You can't open ffmpeg because the developer can't be verified"... Then don't touch anything and go to:

Apple> System Preferences => Security and Privacy => General (tab) press the elongated button at the bottom righ,t that says something like:

#### Allow ffmpeg anyway

...then 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:



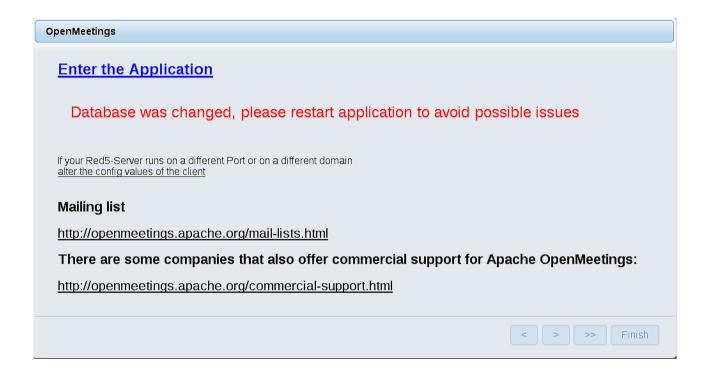
Now push the button Will show this window:



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:

Login	
Username or mail address Password	
Forgotten your password?	□ Remember login Network testing
Not a member? Sign in	

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 acces 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.

14) ----- Recording in conference room -----

When you try to record at Conference Room and press the monitor-tv icon (top right whiteboard) to do it, don't open the file (public.jnpl) but download it and right clic on it and press "Open". Permit and follow the instructions.

Also, if you want to record video in the Conference Room, Oracle Java will give trouble. To avoid it we'll put the url of your OpenMeetings installation in the java control panel. For that do the following:

cd /Library/PreferencePanes

open. (attention the point)

... the folder will open, and then double-click on:

JavaControlPanel.prefPane

... and when the Java Control Panel window opens, go to:

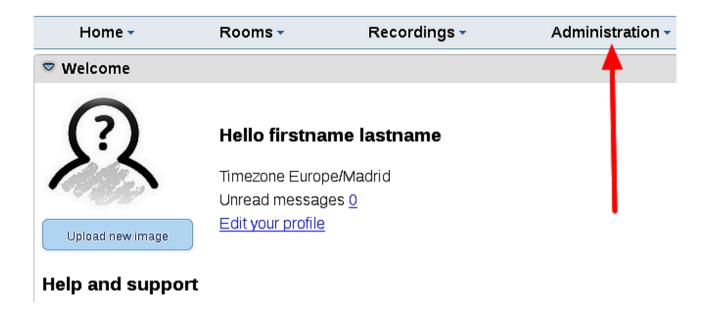
**Security**> **Edit Site List...** .> **Add** . . . type into the window:

http://localhost:5080 ... or the url of your server with port 5080 => Accept =>. Accept

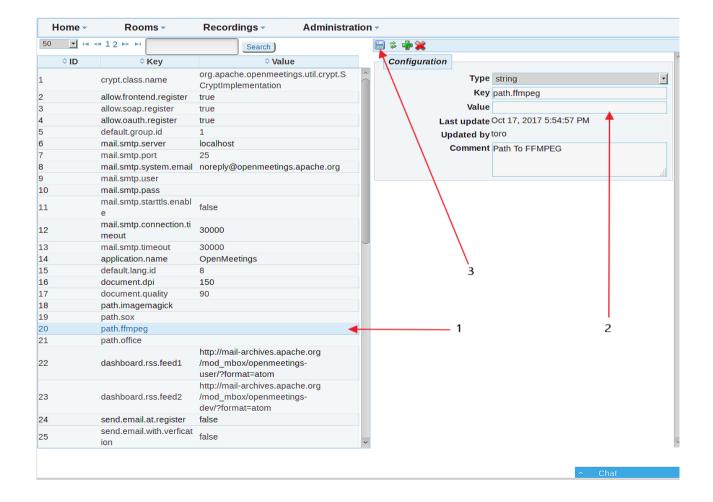
15) ----- Configuration of OpenMeetings -----

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:



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

http://openmeetings.apache.org/mailing-lists.html



Also you can download if you like, a wallpaper of OpenMeetings for different devices such as:

PC, Mac, Smartphone, iPhone and Tablets. Here is the link to downoload:

OpenMeetings Wallpaper Download

A dvd live iso with OpenMeetings 4.0.10 on Ubuntu 18.04 lts is at your disposal.

Can find it here:

Live iso download

Thank you.

Alvaro Bustos (PMC and Committer at Apache OpenMeetings).