

Installation of Apache OpenMeetings 4.0.11 on macOS Catalina 10.15.5

It is tested with positive result. We will use the Apache's binary version OpenMeetings 4.0.11 stable, that is to say will suppress his compilation. It is done step by step.

Starting....

1)

----- Installation of Command line developer tools -----

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

...will open a window informing:

()	The "xcode-select" command re command line developer tools. V install the tools now?	•
	Choose Install to continue. Choose Get X and the command line developer tools fr	
	Get Xcode Not N	low Install

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

APPLE INC.	
MAC SDK AND XCOD	EAGREEMENT
SOFTWARE (DEFINED TERMS OF THIS LICE AGREEMENT TO BE B	TAC SDK AND XCODE AGREEMENT ("LICENSE") CAREFULLY BEFORE USING THE DEVELOPER I BELOW). BY USING THE DEVELOPER SOFTWARE, YOU ARE AGREEING TO BE BOUND BY THE NSE. IF YOU ARE ACCESSING THE DEVELOPER SOFTWARE ELECTRONICALLY, SIGNIFY YOUR SOUND BY THE TERMS OF THIS LICENSE BY CLICKING THE "AGREE " BUTTON. IF YOU DO NOT IS OF THIS LICENSE, DO NOT USE THE DEVELOPER SOFTWARE AND CLICK "DISAGREE".
reproduction of non-c	o the extent that this software may be used to reproduce materials, it is licensed to you only for opyrighted materials, materials in which you own the copyright, or materials you are authorized or produce. If you are uncertain about your right to copy any material, you should contact your legal
accompanying this Lice other form, (collectively, terms of this License. A expressly granted to yo	tools, utilities, sample or example code, documentation, interfaces, content, data, and other materials unse, whether on disk, print or electronic documentation, in read only memory, or any other media or in an the "Developer Software") are licensed, not sold, to you by Apple Inc. ("Apple") for use only under the Apple and/or Apple's licensors retain ownership of the Developer Software itself and reserve all rights not u. The terms of this License will govern any software upgrades provided by Apple that replace and/or Developer Software, unless such upgrade is accompanied by a separate license in which case the terms
the respective content of be subject to terms of u	property rights in and to any content displayed by or accessed through the Developer Software belongs owner. Such content may be protected by copyright or other intellectual property laws and treaties, and r use of the third party providing such content. This License does not grant you any rights to use such cont at such content will continue to be available to you.
	Jses and Restrictions. he terms and conditions of this License, you are granted a limited, non-exclusive license to use the Apple-branded computers to develop and test application and other software. You may make only as ma

...and will download and install the software

10	Downloading software	
	Time remaining: Less than a minute	
	·····	Stop

...telling when it finished

10	The software was installed.	
		Done

...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 4.0.11. Will install Oracle Java 1.8.

Please change you-user by your real Mac user name:

cd /Users/you-user

...downlod 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

...go to your home folder, where is the downloaded file, and clic on it:

jdk-8u212-macosx-x64.dmg

...and following 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 4.1.7

Download full installation

Do clic on the unloaded file: Apache_OpenOffice_4.1.7_MacOS_x86-64_install.... and will open this window:



Pag 5

...please, drag **OpenOffice** icon to right **Applications** folder icon. After that, run manually **OpenOffice** from **Applications** (**right clic => "Open**") 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:

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'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:

cd /Users/you-user/Downloads

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

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

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 *usr*local/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:

mysql

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

Pag 7

------ 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 open4011 DEFAULT CHARACTER SET 'utf8';

...now we create a user with all permission on this open4011 database. User password must be of 8 digits minimum:

(One line only with a space between both)

MariaDB [(none)]> GRANT ALL PRIVILEGES ON open4011.* TO 'hola'@'localhost' IDENTIFIED BY '1a2B3c4D' WITH GRANT OPTION;

...and exit MariaDB:

MariaDB [(none)]> quit

* open4011 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)

10)

/Users/you-user/red54011

...then make the folder:

mkdir /Users/you-user/red54011

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

Download Apache-OpenMeetings file to the installation folder:

cd /Users/you-user/red54011

wget https://archive.apache.org/dist/openmeetings/4.0.11/bin/apache-openmeetings-4.0.11.tar.gz

tar xzvf apache-openmeetings-4.0.11.tar.gz

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

mv apache-openmeetings-4.0.11.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 https://repo1.maven.org/maven2/mysql/mysql-connector-java/5.1.49/mysql-connector-java-5.1.49.jar

...and copy it to his place:

(Only one line with space between both)

cp /Users/you-user/mysql-connector-java-5.1.49.jar /Users/you-user/red54011/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/red54011

...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:

OpenMeetings
 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).
If you have further questions or need support in installation or hosting:
Community-Support:
Mailing lists
Commercial-Support:
Commercial-Support
< > >> Finish

...press on [>] (bottom), and will show the default database configuration with Derby, but we

employ MySQL (MariaDB):

OpenMeetings
DB configuration
Recommendation for production environment
By default OpenMeetings uses the integrated <u>Apache Derby</u> database. For production environment you should consider using <u>MySQL</u> , <u>PostgreSql</u> , <u>IBM DB2</u> , <u>MSSQL</u> or <u>Oracle</u>
NOTE Please use unpredictable DB login and 'strong' password with length 8 characters or more.
Choose DB type Apache Derby Specify the name of the database openmeetings
Check
< > >> Finish

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

OpenMeetings				
DB configuration				
Recommendation for production environment				
	By default OpenMeetings uses the integrated <u>Apache Derby</u> database. For production environment you should consider using <u>MySQL</u> , <u>PostgreSql</u> , <u>IBM DB2</u> , <u>MSSQL</u> or <u>Oracle</u>			
	DB login and 'strong' password with leng	yth 8 characters or more.		
Choose DB type	MySQL 🔻			
Specify DB host	localhost			
Specify DB port	3306			
Specify the name of the database	penmeetings			
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	=	open4011
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:
---------------	---	---------	-----	------	----	-----

OpenMeetings		
Userdata		
Username		
Userpass		
EMail		
User Time Zone	Europe/Madrid	
Group(Domains)		
Group(Domains)		
Name		
		< > >> Finish

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-namethis 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-openmeetingsgroup 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 Send Email to new registered Users	
New Users need to verify their EMail Default DB objects of all types will be created (including Rooms, OAuth2 servers etc.)	
Mail-Referer	noreply@openmeetings.apache.org
SMTP-Server	localhost
SMTP-Server Port(default Smtp-Server Port is 25)	25
SMTP-Username	
SMTP-Userpass	
Enable TLS in Mail Server Auth	
Set inviter's email address as ReplyTo in email invitations	
Default Language	inglés 🗸
	< > >> 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	==	john@gmail.com
SMTP-Server	==	smtp.gmail.com
SMTP-Server Port (default Smtp-Server Port is 25)	==	587
SMTP-Username	==	john@gmail.com
SMTP-Userpass		password of john@gmail.com
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:

OpenMeetings							
Converters							
Document conversion DPI 0	150						
Document conversion JPEG Quality 0	90						
ImageMagick Path		Check					
FFMPEG Path 🕚		Check					
SoX Path 🔞		Check					
OpenOffice/LibreOffice Path for jodconverter (1)		Check					
see also Installation							
		< > >> Finish					

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:

OpenMeetings		
Сгурт Туре		
Crypt Class 🔘	org.apache.openmeetings.util.crypt.SCr	
red5SIP Configuration		
Enable SIP 📵		
SIP rooms prefix 0	400	
SIP extensions context 0	rooms	
		< > >> Finish

Now push the button > Will show this window:

OpenMeetings	
Please click "Finish" button to start installation!	
	< > >> Finish

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 <u>Enter the Application</u>. First is need it to restart red5. Open a new terminal, and run this command (connected to Internet):

/opt/red5-mac2 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	
Forgotten your password?	Remember login <u>Network testing</u>
	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:

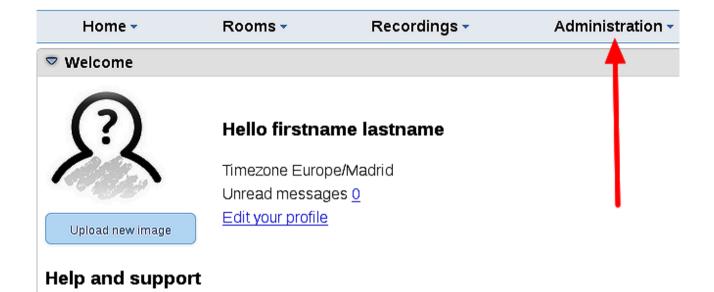
Security> Edit Site List.... > Add . . . type into the window:

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 \rightarrow Configuration

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

Но	me -	Rooms -	Recordings -	Administration	ו –					
50	• •• •	×12 ↦ ⊨	Search)		2	🕂 🐳				
\$	ID	≎ Key	≎ Value		Cor	nfigurat	ion			
1		crypt.class.name	org.apache.openmeetings CryptImplementation	s.util.crypt.S				e string		•
2		allow.frontend.register	true				Ke	y path.ffmpeg		
3		allow.soap.register	true			\	Valu	ie		
4		allow.oauth.register	true			\mathbf{X}	Last upda	te Oct 17, 2017 5:54:57 PM	↑	
5		default.group.id	1				Updated k	vtoro		
6		mail.smtp.server	localhost					nt Path To FFMPEG		
7		mail.smtp.port	25				Comme	Faul 10 FFMFEG		
8		mail.smtp.system.email	noreply@openmeetings.a	pache.org		\				
9		mail.smtp.user								
10		mail.smtp.pass					\			
11		mail.smtp.starttls.enabl e	false				\backslash			
12		mail.smtp.connection.ti meout	30000							
13		mail.smtp.timeout	30000	0	1					
14		application.name	OpenMeetings				· \			
15		default.lang.id	8				3			
16		document.dpi	150							
17		document.quality	90							
18		path.imagemagick								
19		path.sox								
20		path.ffmpeg					1		2	
21		path.office								
22		dashboard.rss.feed1	http://mail-archives.apach /mod_mbox/openmeeting: user/?format=atom	•						
			http://mail-archives.apach	ie.org						
23		dashboard.rss.feed2	/mod_mbox/openmeeting dev/?format=atom	s-						
24		send.email.at.register	false							
25		send.email.with.verficat ion	false	~						

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 4.0.11 on Ubuntu 18.04 lts and other OpenMeetings 5.0.0 on Ubuntu 18.04 lts, is at your disposal.

Can find them here:

Live iso download

Thank you.

Alvaro Bustos (PMC and Committer at Apache OpenMeetings).