

Installation of Apache OpenMeetings 4.0.10 on Gentoo

This tutorial is based on a fresh installations on

stage3-amd64-20170202.tar.bz2

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

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

| 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: |
| emerge -uaD world |
| |
| 2) |

```
Java it is necessary for OpenMeetings 4.0.10. We'll install Oracle Java 1.8:
cd /usr/portage/distfiles
...download the java file:
                      (All in one line only without space between both)
wget https://github.com/frekele/oracle-java/releases/download/8u212-b10/jdk-8u212-linux-
x64.tar.gz
...we install it:
emerge --verbose dev-java/oracle-jdk-bin:1.8
...maybe you have installed various versions of Java. We see it:
java-config --list-available-vms
...we select the just installed Oracle Java 1.8:
java-config --set-system-vm oracle-jdk-bin-1.8
...and to see the active version:
java -version
3)
                              ----- Installation of LibreOffice -----
OpenMeetings will need LibreOffice to convert to pdf the uploaded office files.
We install it (will spend about 35 minutes):
cd /opt
emerge libreoffice-bin ghostscript
4)
                    ----- Installation of necessary packages and libraries -----
```

| emerge zlib libtool bzip2 autoconf automake pkgconfig tomcat-native nmap freetype nano |
|--|
| 5) Installation ImageMagick and Sox |
| ImageMagick, will work with images files jpg, png, gif, etc. We install it: |
| emerge imagemagick |
| Sox, work the sound. Install it: |
| emerge sox |
| cd /opt |
| 6) Installation of Adobe Flash Player |
| OpenMeetings even need Adobe Flash Player for cam and audio. We install it: |
| emerge adobe-flash |
| Prepare this plugin for Firefox. Please, change you-user by your real user name: |
| mkdir /home/you-user/.mozilla/plugins |
| ln -s /usr/lib64/nsbrowser/plugins/libflashplayer.so /home/you-user/.mozilla/plugins |
| 7) Compilation of FFmpeg |
| FFmpeg work with video. Will install a libraries and paquets: |
| emerge glibc faac faad2 gsm imlib2 cmake curl git mercurial yasm |

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

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

The ffmpeg compilation it is based on this url, updated file versions 14-12-2019:

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 25 minutes. |
| When finished, please go to step 8). |
| 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: |
| emerge mariadb |
| ATTENTION! When MariaDB installation is finished, a lines before the last, in the shell, is a command that we need to copy and run. Actualy is this, please check it, and if is the same run it: |
| emergeconfig =dev-db/mariadb-10.0.29 |
| will ask for a new root mariadb password. Choose one you like it and type it twice. |
| |

Run MariaDB:

| /etc/ | ini | t d | /ms | /sa | 1 s | tart |
|-------|-----|-----|-------|------|-----|------|
| 1000 | ш | ı.u | / 111 | y 59 | 10 | uu i |

...and access to MariaDB:

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

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

We make a database called open4010, for OpenMeetings:

MariaDB [(none)]> CREATE DATABASE open4010 DEFAULT CHARACTER SET 'utf8';

Now we create a user for open4010 database. User password must be of 8 digits minimum:

(Only one line with space between both)

MariaDB [(none)]> GRANT ALL PRIVILEGES ON open4010.* TO 'hola'@'localhost' IDENTIFIED BY 'la2B3c4D' WITH GRANT OPTION;

- * open4010 name of the database
- * hola user for that database
- * 1a2B3c4Dpassword of this user

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

MariaDB [(none)]> quit

9) ----- Installation of OpenMeetings -----

We'll install OpenMeetings in /opt/red54010. All the following information will be based on this directory.

Call to our folder of installation red54010

Make that folder:

mkdir /opt/red54010

cd/opt/red54010

...and download the OpenMeetings file:

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 to /opt: mv apache-openmeetings-4.0.10.tar.gz /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/5.1.48/mysql-connector-java-5.1.48.jar ...and copy it to where must be: cp /opt/mysql-connector-java-5.1.48.jar /opt/red54010/webapps/openmeetings/WEB-INF/lib 10) ----- Script to launch red5-OpenMeetings -----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/red54010, please edit the script and modify the line: RED5 HOME=/opt/red54010 ...to

RED5 HOME=/your-path-installation

11)

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

Restart MariaDB:

/etc/init.d/mysql restart

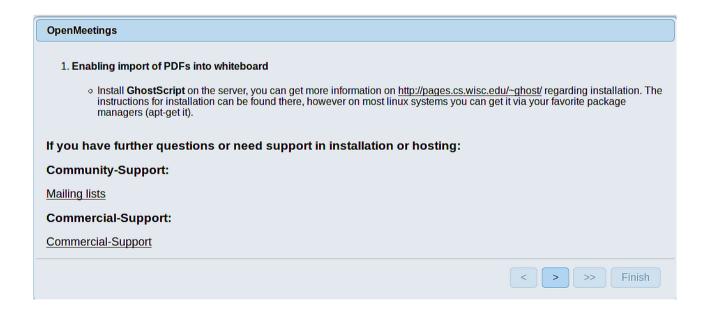
...and run red5-OpenMeetings. Please, open a new terminal as root, and be connected to Internet, so the running will be quick:

/etc/init.d/red5-2 start

...wait untill the text "CleanupJob.cleanRoomFiles", it is the last in the shell. Then, go with the browser to:

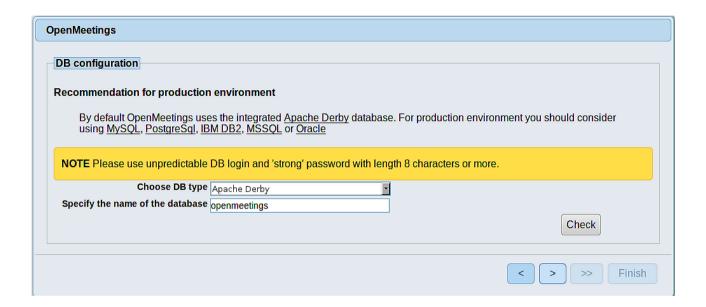
http://localhost:5080/openmeetings/install

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

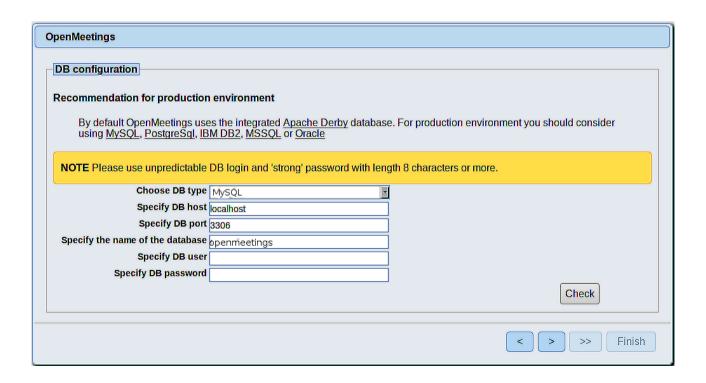


...press on (bottom), and will show the default configuration with Derby, but we employ

MySQL (MariaDB):



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



Now we must introduce the database name, user name and his password user name we did at the step 8, and his password:

Specify the name of the database = open4010

Specify DB user = hola

Specify DB password = 1a2B3c4D

Please, press button, and will go to:

| OpenMeetings | | |
|----------------|-----------------|---------------|
| Userdata | | |
| Username | | |
| Userpass | | |
| EMail | | |
| User Time Zone | Europe/Madrid ▼ | |
| | | |
| 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-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:

| 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 |
| | |
| | < > >> Fin |

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

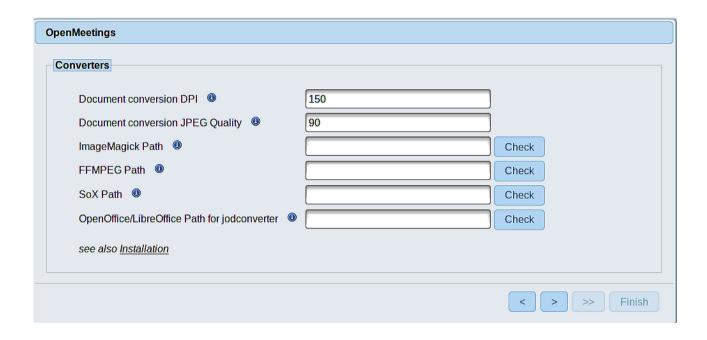
Enable TLS in Mail Server Auth == ...turn green the button to activate

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:



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

ImageMagick Path == /usr/bin

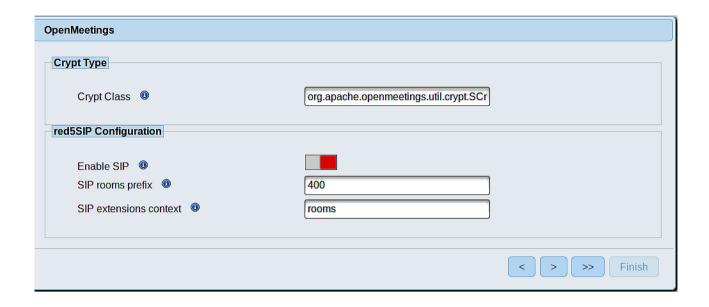
FFMPEG Path == /usr/local/bin

SOX Path == /usr/bin

OpenOffice/LibreOffice Path for jodconverter == /usr/lib64/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:



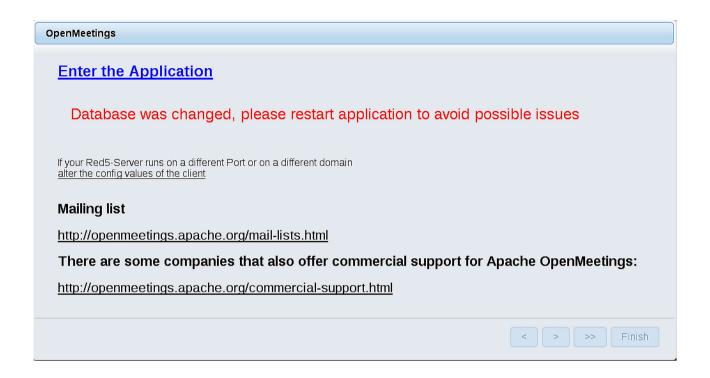
Now, touch the button | Will show this window:



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 connected to Internet. Open a new terminal as root:

/etc/init.d/red5-2 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 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:

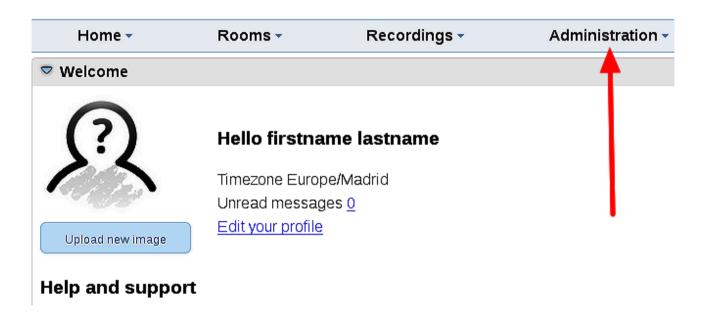
1935 5080

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

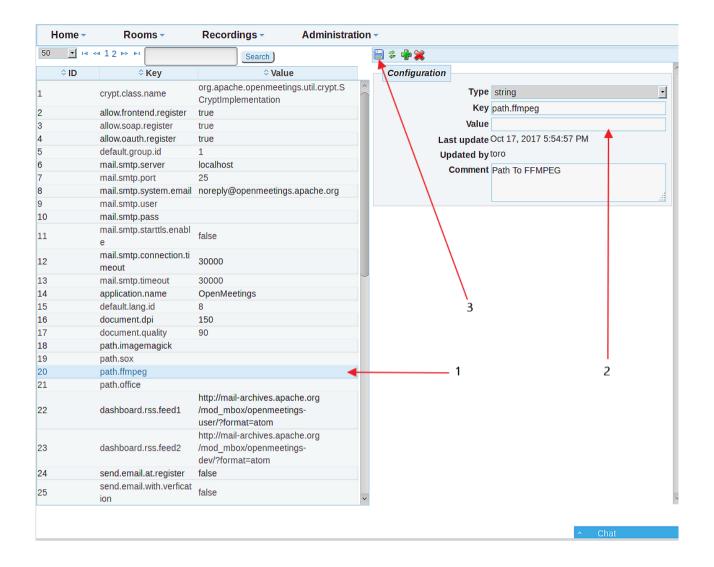
12) ----- OpenMeetings's configuration -----

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:



13) ----- Ghosetscript compilation and ImageMagick modify -----

By a script we should compile Ghostscript 9.27, free of security hole:

cd /opt

wget https://cwiki.apache.org/confluence/download/attachments/27838216/ghostscript.sh

chmod +x ghostscript.sh

...and run it:

./ghostscript.sh

...when be finished will announce it: GhostScript compilation is Finished!

rm -Rf/opt/ghostscript-9.27

Now we modify ImageMagick, so OpenMeetings can upload office files to whiteboard:

nano /etc/ImageMagick-6/policy.xml

...and comment out the two follow lines, near to bottom file:

```
<policy domain="coder" rights="none" pattern="PS" />
<policy domain="coder" rights="none" pattern="PDF" />
...to:

<!-- <policy domain="coder" rights="none" pattern="PS" /> -->
<!-- <policy domain="coder" rights="none" pattern="PDF" /> -->
```

Press in the keyboard Ctrl+x, will ask to save, press Y, and press Enter to exit nano editor.

This last must be repeated every time you update system-ImageMagick.

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).