

Installation of Apache OpenMeetings 4.0.10 on Ubuntu 16.04 lts

The present tutorial is made based on a fresh installations of

ubuntu-mate-16.04-desktop-amd64.iso

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

1)
First, we update and upgrade the OS:
sudo apt-get update
sudo apt-get upgrade
2) Installation of OpenJava 1.8
OpenMeetings 4.0.10 need Java to work. So, we install OpenJava 1.8:

sudo apt install openjdk-8-jdk openjdk-8-jdk-headless

...and his plugin for web:

sudo apt install icedtea-netx

Starting...

Now, please, select OpenJava 8, if you have more than one java versions installed: sudo update-alternatives --config java To see the active java version: java -version 3) ----- Installation of LibreOffice -----LibreOffice is need it to convert to pdf the uploaded office files. The ubuntu desktop iso have already LibreOffice installed, but we do also for server iso: sudo add-apt-repository ppa:libreoffice/ppa sudo apt-get update sudo apt-get install libreoffice Now some kind of information only: LibreOffice installation folder is /usr/lib/libreoffice. 4) ----- Installation ImageMagick and Sox -----ImageMagick, will work the image files, png, jpg, gif, etc. Will install it and some more libraries and paquets: sudo apt-get install -y imagemagick libjpeg62 zlib1g-dev unzip make build-essential wget nmap **Sox,** work the sound. We'll compile, because this version is newer than the repo: cd /opt wget http://sourceforge.net/projects/sox/files/sox/14.4.2/sox-14.4.2.tar.gz

tar xzvf sox-14.4.2.tar.gz

cd /opt/sox-14.4.2		
./configure		
make && make install		
5) Installation of Adobe flash player		
OpenMeetings even need Adobe Flash Player for cam and audio. We install it		
sudo apt-get install flashplugin-installer		
6) Compilation of FFmpeg		
FFmpeg will work with video.		
This compilation is based on:		
https://trac.ffmpeg.org/wiki/CompilationGuide/Ubuntu		
Install some libraries and paquets:		
(Only one line with space between each one of them)		
sudo apt-get -yforce-yes install autoconf automake build-essential libass-dev libfreetype6-dev libgpac-dev libsdl1.2-dev libtheora-dev libtool libva-dev libvdpau-dev libvorbis-dev libxcb1-dev libxcb-shm0-dev libxcb-xfixes0-dev pkg-config texi2html zlib1g-dev nasm libx264-dev cmake mercurial libopus-dev curl git vlc		
I made a script that will download, compile and install ffmpeg. The result of any recording we do in OpenMeetings, will be in mp4 format. Please, download the script:		
cd /opt		
wget https://cwiki.apache.org/confluence/download/attachments/27838216/ffmpeg-ubuntu.sh		
concede permission of execution:		
chmod +x ffmpeg-ubuntu.sh		

...and run it (be connected to Internet). The compilation will spend about 20-30 minutes:

./ffmpeg-ubuntu.sh

When finish the compilation, a text will announce it:

FFmpeg Compilation is Finished!

Then, please, go to step 7).

All the compiled files are installed in: /usr/local/bin

7)

----- Installation and configuration of MariaDB data server -----

MariaDB is the data server. Will install it.:

sudo apt-get install mariadb-server

Run MariaDB:

/etc/init.d/mysql start

Now we give a root password to MariaDB. Please, replace new-password with your own:

mysqladmin -u root password new-password

Make a database with his own user for OpenMeetings:

mysql -u root -p

...will ask for the root password that you have just choosen, type it...

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

With this command we has created a database called open4010.

Now we create an user on this 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 '1a2B3c4D' WITH GRANT OPTION;

^{*} open4010is the database name.

^{*} holais the user name for this database.

^{* 1}a2B3c4D ...is the password for this user.

You can change the data...but remember it! Later we'll need it.

Now, we leave MariaDB:

MariaDB [(none)]> quit

8)

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

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

Make the folder:

mkdir /opt/red54010

cd/opt/red54010

...and download the red5-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

Do to **nobody** owner of the whole OpenMeetings folder installation, by security:

chown -R nobody /opt/red54010

Download and install the connector between OpenMeetings and MariaDB:

cd /opt

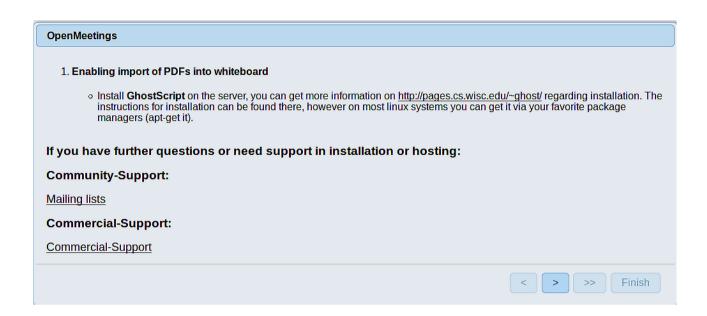
(Only one line without space between both)

wget https://repo1.maven.org/maven2/mysql/mysql-connector-java/5.1.48/mysql-connector-java-5.1.48.jar

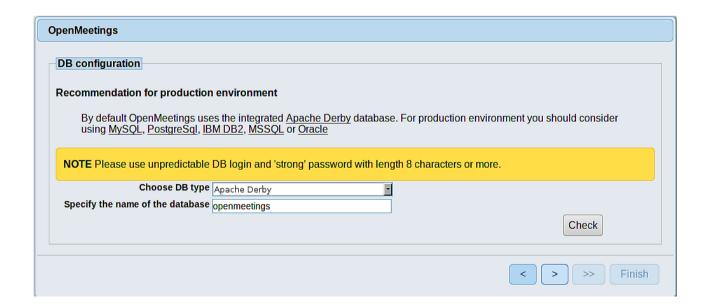
...and copy it to where must be:

cp/opt/mysql-connector-java-5.1.48.jar/opt/red54010/webapps/openmeetings/WEB-INF/lib

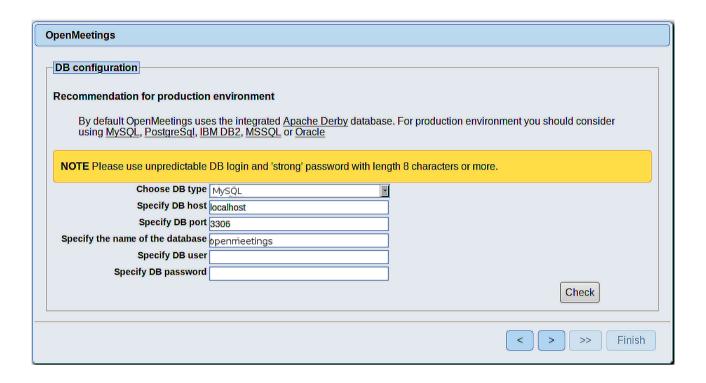
9) Script to launch red5-OpenMeetings			
Please, download the red5 run script:			
cd /opt			
wget https://cwiki.apache.org/confluence/download/attachments/27838216/red5-ubdeb2			
and copy it to:			
cp red5-ubdeb2 /etc/init.d/			
and concede permission of execution:			
chmod +x /etc/init.d/red5-ubdeb2			
10) Run red5-OpenMeetings			
Start MariaDB, if still it is not:			
/etc/init.d/mysql start			
and now start red5-OpenMeetings. Please, be connected to Internet:			
/etc/init.d/red5-ubdeb2 start			
will appear two text lines in the shell:			
start-stop-daemon:start needsexec orstartas Try 'start-stop-daemonhelp' for more information.			
you do nothing. Don't worry, everything work right,			
wait 40 seconds at least, in order that red5 it is runing completely. And after this, can go to:			
http://localhost:5080/openmeetings			
there will appear a page similar to this one:			



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



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

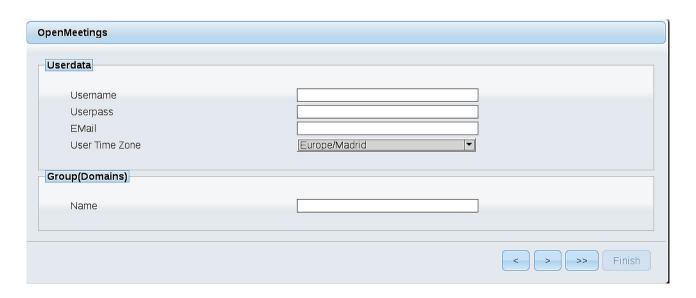


Now we must introduce the database name, user name and password, we did at the step 7:

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

...if you choose a different data, type it here.

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.

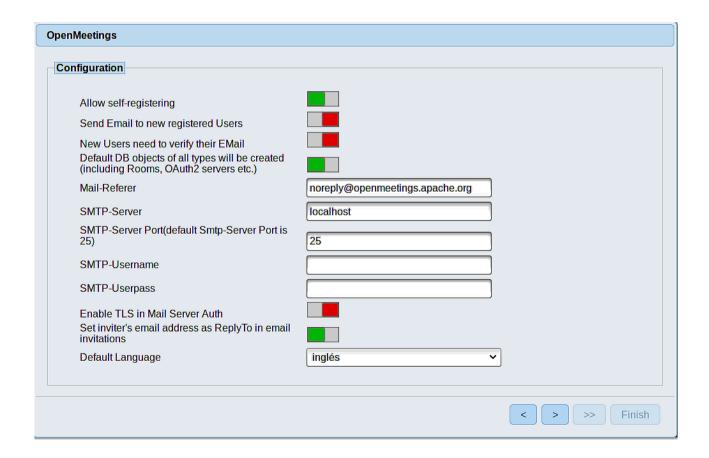
Email = email-adress ...of the previous user.

User Time Zone = country where is this server.

= 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:

Name

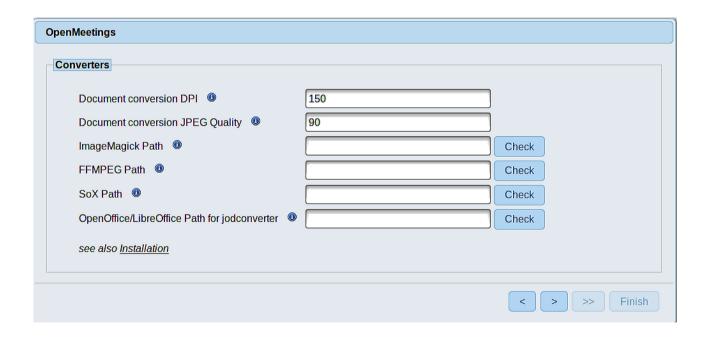


A valid example to configure the mail server with Gmail, is as follows: (replace **john@gmail.com** with your real Gmail account)

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
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

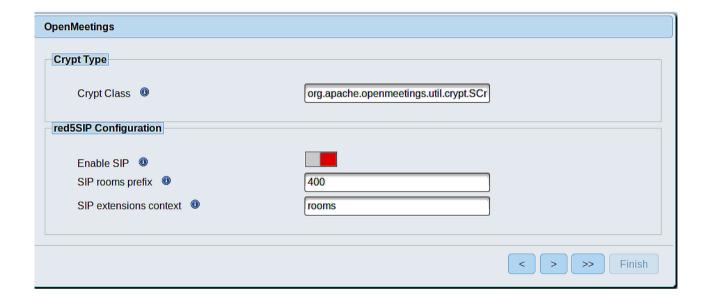
SOX Path == /usr/local/bin

OpenOffice/LibreOffice Path for jodconverter

== /usr/lib/libreoffice (32 bits - 64bits)

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 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 push the button and will show this window:

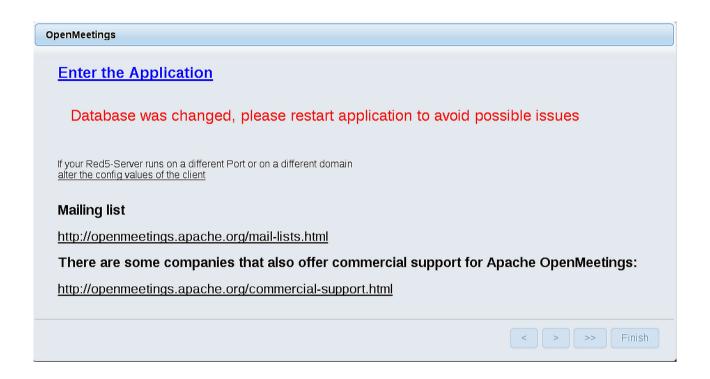
OpenMeetings	
Please click "Finish" button to start installation!	
	< > >> Finish

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 **Enter the Application**.

First is need it to restart the server. Please, be connected to Internet:

/etc/init.d/red5-ubdeb2 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 choosen during the installation, push **Sign in** button, and...

... Congratulations!

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

http://localhost:5080/openmeetings

Remember to open in the server the two following ports:

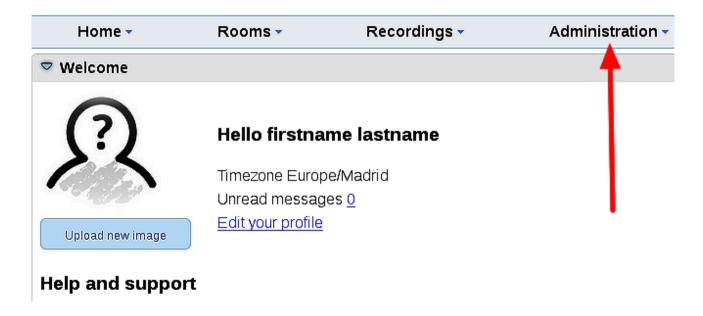
1935 5080

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

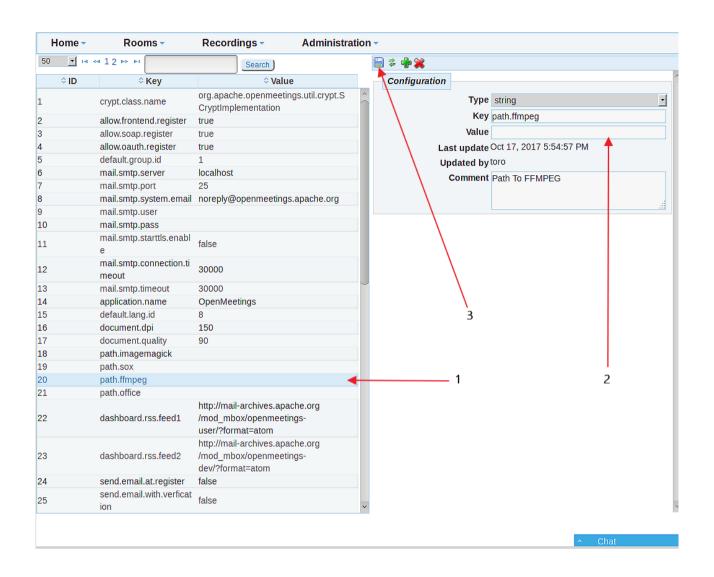
11) ----- OpenMeetings's Configuration -----

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:



12) ------ Special Step ImageMagick -----

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 the system-ImageMagick, or if ask you keep the "policy.xml" file, then press "Keep" buton.

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 download:

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).