

# **Installation of Apache OpenMeetings 4.0.5 on Mint Linux 18.3**

This tutorial is made based on a fresh installations of

#### linuxmint-18.3-mate-64bit.iso

It is tested with positive result. We will use the Apache's binary version OpenMeetings 4.0.5 stable, that is to say will suppress his compilation. It is done step by step.

3-9-2018

Starting	
1)	
First, we update and upgrade the OS:	
sudo apt-get update	
sudo apt-get upgrade	
2) Installation of Open Java 1.8	
OpenMeetings <b>4.0.5</b> need Java <b>1.8</b> to work. So, we install Open Java 1.8:	
sudo apt-get install openjdk-8-jdk openjdk-8-jdk-headless	
and his plugin for web:	

sudo apt-get install icedtea-8-plugin

Now, please, select Open Java, 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 Mint 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

4) ----- Installation ImageMagick and Sox -----

**ImageMagic,** 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. 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

Updated files to 3-9-2018. Install some libraries:

(Only one line with space between each one)

sudo apt-get -y --force-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

(Only one line without space between both)

wget https://cwiki.apache.org/confluence/download/attachments/27838216/ffmpeg-ubuntudebian.sh

...concede permission of execution:

chmod +x ffmpeg-ubuntu-debian.sh

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

#### ./ffmpeg-ubuntu-debian.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. (Version 10.x):

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 open405 DEFAULT CHARACTER SET 'utf8';

With this command we has created a database called open405.

Now we create a 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 open405.\* TO 'hola'@'localhost' IDENTIFIED BY 'la2B3c4D' WITH GRANT OPTION;

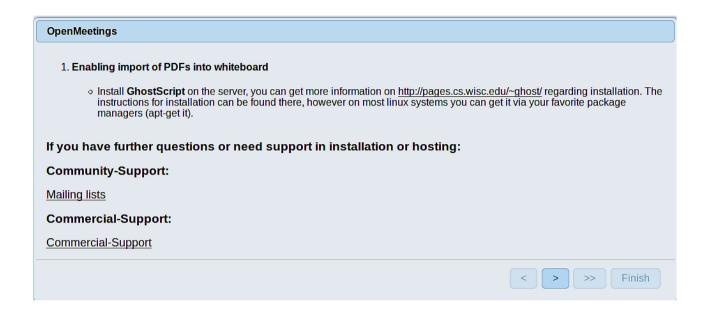
- \* open405 .....is the database name.
- \* hola ......is the user name for this database.
- \* 1a2B3c4D ...is the password for this user.

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/red5405. All the following information will be based on this directory. Make the folder: mkdir /opt/red5405 cd/opt/red5405 ...and download the red5-OpenMeetings file: wget http://archive.apache.org/dist/openmeetings/4.0.5/bin/apache-openmeetings-4.0.5.zip unzip apache-openmeetings-4.0.5.zip ...save the unloaded file to /opt: mv apache-openmeetings-4.0.5.zip /opt Do to **nobody** owner of the whole OpenMeetings folder installation, by security: chown -R nobody /opt/red5405 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/5.1.46/mysql-connector-java-5.1.46.jar ...and copy it to where must be:

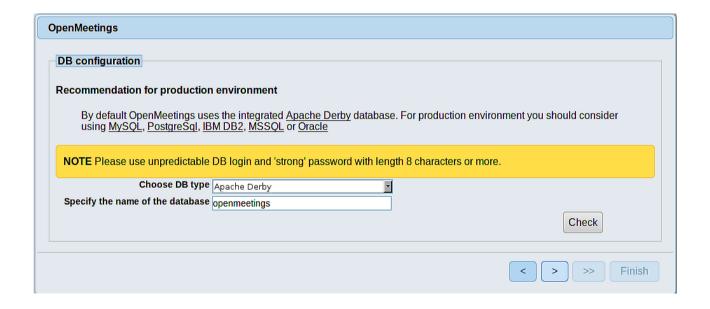
cp/opt/mysql-connector-java-5.1.46.jar/opt/red5405/webapps/openmeetings/WEB-INF/lib

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 ...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 needs --exec or --startas Try 'start-stop-daemon --help' 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/install ...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:

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 the name of the detabase
Specify the name of the database openmeetings  Specify DB user
Specify DB password
Check
< > >> Finish

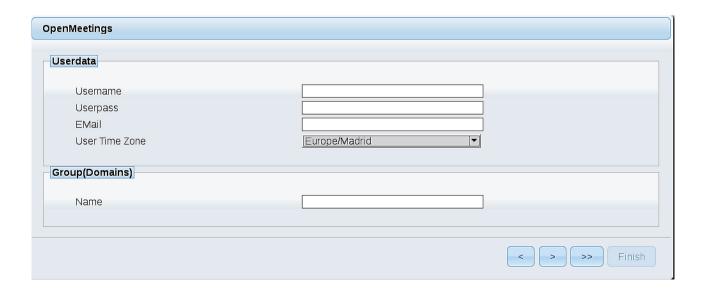
Now we must introduce the database name, user name and his password, we did at the step 7:

Specify the name of the database = open405

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.

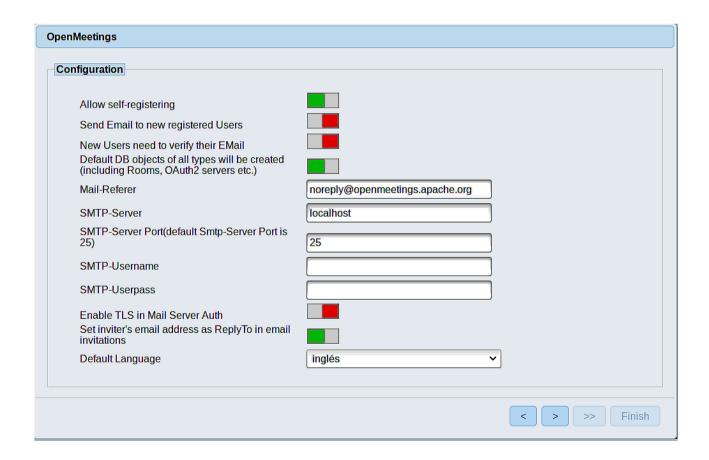
**Userpass** = password ...for the previous user.

**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:



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

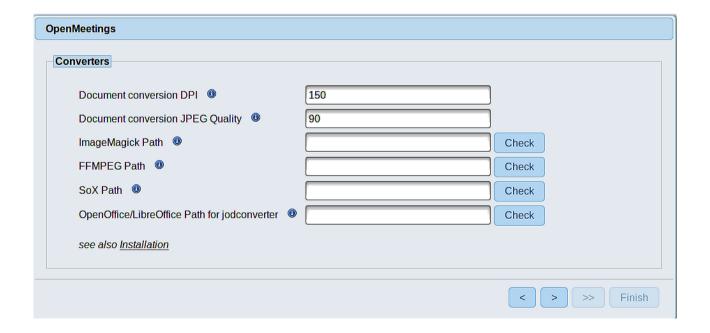
Enable TLS in Mail Server Auth == ...turn green the button to activate

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:

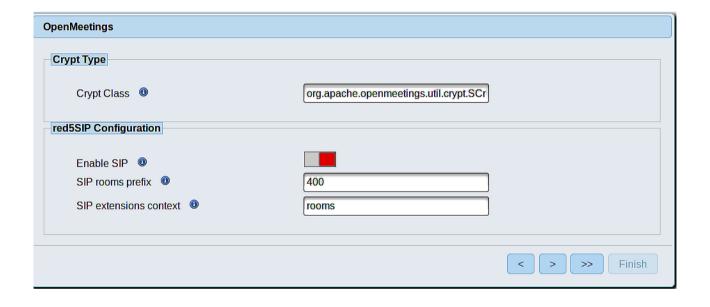
ImageMagick Path== /usr/binFFMPEG Path== /usr/local/binSOX Path== /usr/local/bin

OpenOffice/LibreOffice Path for jodconverter

== /usr/lib/libreoffice (32 - 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:

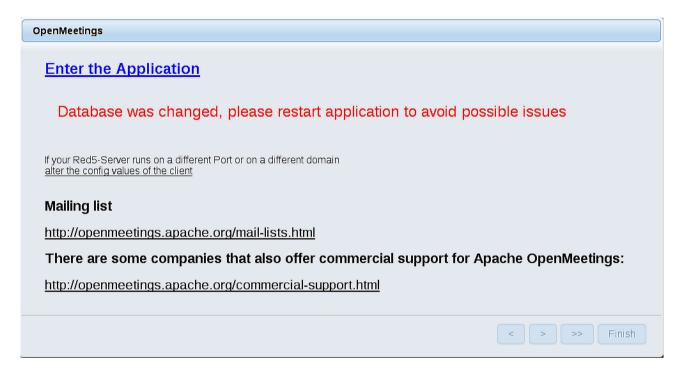


Now push the button Will show this window:



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 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	
	□ Remember login
Forgotten your password?	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:

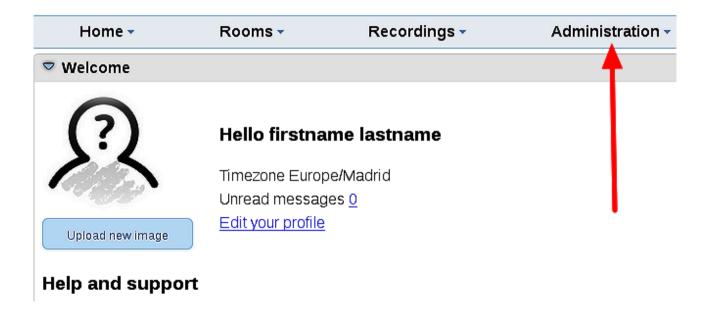
#### 1935 5080

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

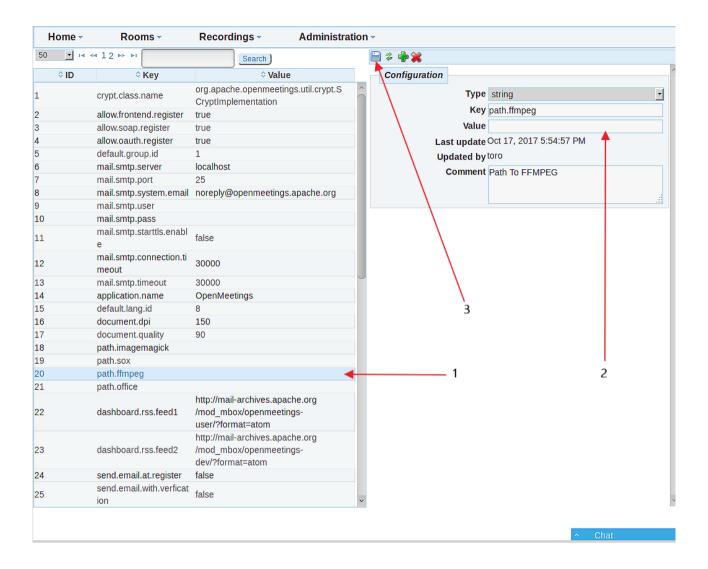
# 11) ----- OpenMeetings's Configuration -----

Once you acced to OpenMeetings, if you would like to do any modification in the configuration, please go to:

## **Administration** → **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