



Installation of Apache OpenMeetings 4.0.9 on PCLinuxOS 2019

pclinuxos64-MATE-2019.05.iso

This tutorial is made based on fresh installations of PCLinuxOS 2019 Mate.

It is tested with positive result. We will use the Apache's binary version OpenMeetings 4.0.9 stable, that is to say, will suppress his compilation. It is done step by step.

16-7-2019

Starting...

1)

Update and upgrade the operative system. Please go to:

[apt-get update](#)

[apt-get upgrade](#)

2)

----- **Installation of libraries and packages** -----

(Only one line with space between 2 and 3)

```
apt-get install -y libjpeg-progs giflib-progs freetype-devel gcc-c++ zlib1-devel libtool bison bison-
static-devel file-roller freetype unzip gcc ncurses make zlib1 bzip2 wget ncurses zlib1 zlib1-devel
x264-devel git make automake nasm pavucontrol rpm-installer freetype2 curl
```

3)

----- Installation of LibreOffice and Java Sun 1.8.x -----

When we install LibreOffice also will install automatically Java sun 1.8.x. OpenMeetings 4.0.9 need java 1.8 to work.

LibreOffice will convert to pdf the uploaded office files. We install it:

`lomanager`

...if show a message like this: *Please Update your system. (more details...)....*

...then please go to:

Synaptic --> Mark All Upgrades --> Apply --> Apply

...and we type in shell newly:

`lomanager`

...will show a window where select your locale language for LibreOffice, and after this answer yes or ok to any question.

Will start installing Java sun and continue with LibreOffice. Will install the last sun java version, but OpenMeetings 4.0.9 need java 1.8, so we install it and after this will select it by java default:

`cd /opt`

`wget https://github.com/frekele/oracle-java/releases/download/8u212-b10/jre-8u212-linux-x64.rpm`

...we install it

:

`rpm -ivh jre-8u212-linux-x64.rpm`

...should see the different java versions installed and you please select 8 just installed:

`alternatives --config java`

...and to see which is the active java version:

```
java -version
```

Once the installation it is finished you can change the LibreOffice language interface in:

Tools --> Options --> Language settings --> Languages --> User interface (select your language)
--> OK

LibreOffice (installed or updated 216-7-2019) is in: [/opt/libreoffice6.1](#)

4)

----- **Installation of Adobe Flash Player** -----

Flash player it is installed in Mate already, but not in KDE minimum. So will install it and firefox also, if you like it. Adobe Flash Player even is need it for cam and audio in OpenMeetings:

```
apt-get install -y firefox flash-player-plugin
```

5)

----- **Installation of ImageMagick and Sox** -----

ImageMagick, work with image files jpg, png, gif, etc. We install it:

```
apt-get install ImageMagick lib64xext-devel
```

Sox, work the sound. It is installed, but we'll uninstall it and compile a newer version than it is in the repo:

```
apt-get remove sox
```

...and download and compile the new version:

```
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
```

6)

----- Installation of FFmpeg and Ghostscript -----

FFmpeg will work the video. We install lame for mp3 audio:

```
apt-get install lame
```

Install a library need it:

```
cd /opt
```

...download:

(Only one line without space between both)

```
wget http://download.opensuse.org/repositories/home:/ganglia:/musescore2/SLE11/x86_64/  
libmp3lame-devel-3.99.5-2.1.x86_64.rpm
```

...and we install it:

```
rpm -ivh libmp3lame-devel-3.99.5-2.1.x86_64.rpm
```

Install FFmpeg:

```
apt-get install ffmpeg
```

The result of our videos made in OpenMeetings will be in mp4 format.

This is very important: When you update or upgrade the operative system, please do it from Synaptic.

By a script we should compile Ghostscript 9.27:

```
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
```

7)

----- Installation of MySQL and building database -----

We'll employ MySQL server, for the database.

```
apt-get install -y mysql
```

...run mysql:

```
service mysqld start
```

...we do a mysql upgrade:

```
mysql_upgrade
```

...and give a root mysql password replacing **new-password** for your own preference, and remember it:

```
/usr/bin/mysqladmin -u root password new-password
```

We'll build a database and an user for OpenMeetings. User password must be of 8 digits minimum:

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

...will ask for password (you just made right now) type it and make the database:

```
mysql> CREATE DATABASE open409 DEFAULT CHARACTER SET 'utf8';
```

(Only one line with space between both)

```
mysql> GRANT ALL PRIVILEGES ON open409.* TO 'hola'@'localhost' IDENTIFIED BY '1a2B3c*D' WITH GRANT OPTION;
```

...and leave MySQL:

```
mysql> quit
```

- * **open409** is the data base name
- * **hola** is the user name for this data base
- * **1a2B3c*D** is the password for this user

You are free to change these names and password, but remember them. Later we'll need it.

Now we'll open mysql port 3306, so OpenMeetings can connect with it:

For **KDE**:

```
kwrite /etc/my.cnf
```

For **MATE**:

```
pluma /etc/my.cnf
```

...and the line number 51: **skip-networking**

...modify so, commented:

```
# skip-networking
```

...and restart mysql:

```
service mysqld restart
```

8)

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

We'll install the 4.0.9 stable version.

Make a folder called **red5409** where download the Apache OpenMeetings file and where make the installation:.

```
mkdir /opt/red5409
```

```
cd /opt/red5409
```

```
wget http://archive.apache.org/dist/openmeetings/4.0.9/bin/apache-openmeetings-4.0.9.tar.gz
```

```
tar xzvf apache-openmeetings-4.0.9.tar.gz
```

```
mv apache-openmeetings-4.0.9.tar.gz /opt
```

.

9)

----- Connector Java MySQL -----

This file-driver connect OpenMeetings to MySQL. Download and install it:

```
cd /opt
```

(Only one line without space between both)

```
wget http://repo1.maven.org/maven2/mysql/mysql-connector-java/5.1.47/mysql-connector-java-5.1.47.jar
```

...copy it to where must be:

```
cp mysql-connector-java-5.1.47.jar /opt/red5409/webapps/openmeetings/WEB-INF/lib
```

10)

----- Script to launch red5-OpenMeetings -----

We download the script will 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/
```

...and concede execution permission:

```
chmod +x /etc/init.d/red5-2
```

If you made the installation in any other path, edit the script and modify the line:

```
RED5_HOME=/opt/red5409
```

...to

```
RED5_HOME=/your-path-installation
```

11)

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

Restart MySQL (be connected to Internet):

```
service mysqld restart
```

...and start red5-OpenMeetings (be connected to Internet):

```
/etc/init.d/red5-2 start
```

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

<http://localhost:5080/openmeetings/install>

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

OpenMeetings

1. 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:

OpenMeetings

DB configuration

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

Specify the name of the database

Check

< > >> Finish

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

OpenMeetings

DB configuration

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	<input type="text" value="MySQL"/>
Specify DB host	<input type="text" value="localhost"/>
Specify DB port	<input type="text" value="3306"/>
Specify the name of the database	<input type="text" value="openmeetings"/>
Specify DB user	<input type="text"/>
Specify DB password	<input type="password"/>

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

Specify the name of the database = open409

Specify DB user = hola

Specify DB password = 1a2B3c*D

...if you choose a different data, here is where type it. Please, press button, and will go to:

OpenMeetings

Userdata

Username	<input type="text"/>
Userpass	<input type="password"/>
E-Mail	<input type="text"/>
User Time Zone	<input type="text" value="Europe/Madrid"/>

Group(Domains)

Name	<input type="text"/>
------	----------------------

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 have administrator rights

Userpass = a-password ...for the previous user

E-Mail = email-address ...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:

OpenMeetings


Configuration

Allow self-registering	<input checked="" type="checkbox"/>
Send Email to new registered Users	<input type="checkbox"/>
New Users need to verify their EMail	<input type="checkbox"/>
Default DB objects of all types will be created (including Rooms, OAuth2 servers etc.)	<input checked="" type="checkbox"/>
Mail-Referer	<input type="text" value="noreply@openmeetings.apache.org"/>
SMTP-Server	<input type="text" value="localhost"/>
SMTP-Server Port(default SmtP-Server Port is 25)	<input type="text" value="25"/>
SMTP-Username	<input type="text"/>
SMTP-Userpass	<input type="text"/>
Enable TLS in Mail Server Auth	<input type="checkbox"/>
Set inviter's email address as ReplyTo in email invitations	<input checked="" type="checkbox"/>
Default Language	<input type="text" value="inglés"/>

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 modify as you liked.

Now press the button  and a new page will appear:

OpenMeetings

Converters

Document conversion DPI ⓘ	<input type="text" value="150"/>	
Document conversion JPEG Quality ⓘ	<input type="text" value="90"/>	
ImageMagick Path ⓘ	<input type="text"/>	<input type="button" value="Check"/>
FFMPEG Path ⓘ	<input type="text"/>	<input type="button" value="Check"/>
SoX Path ⓘ	<input type="text"/>	<input type="button" value="Check"/>
OpenOffice/LibreOffice Path for jodconverter ⓘ	<input type="text"/>	<input type="button" value="Check"/>

see also [Installation](#)

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

ImageMagick Path == `/usr/bin`

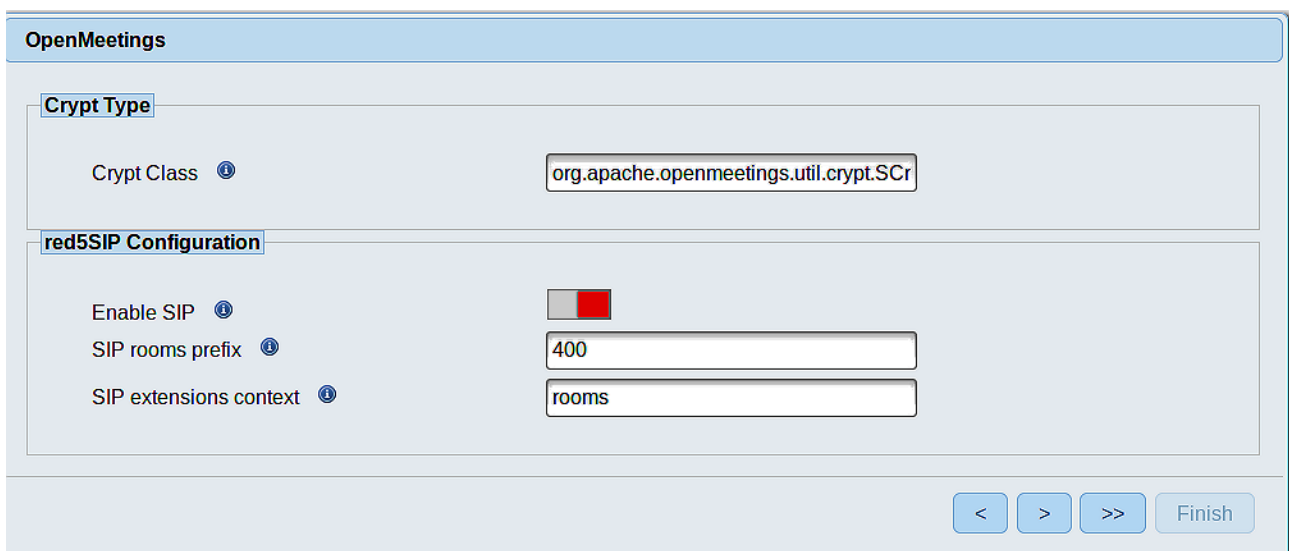
FFMPEG Path == `/usr/local/bin`

SOX Path == `/usr/local/bin`

**OpenOffice/LibreOffice Path for
jodconverter** == `/opt/libreoffice6.1`

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 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:



The screenshot shows the 'OpenMeetings' configuration window. It has a title bar 'OpenMeetings' and a light blue header. The main area is divided into two sections:

- Crypt Type**: Contains a 'Crypt Class' label with an information icon and a text input field containing 'org.apache.openmeetings.util.crypt.SCr'.
- red5SIP Configuration**: Contains three settings:
 - 'Enable SIP' with a checked checkbox.
 - 'SIP rooms prefix' with a text input field containing '400'.
 - 'SIP extensions context' with a text input field containing 'rooms'.

At the bottom right, there are four navigation buttons: '<', '>', '>>', and 'Finish'.

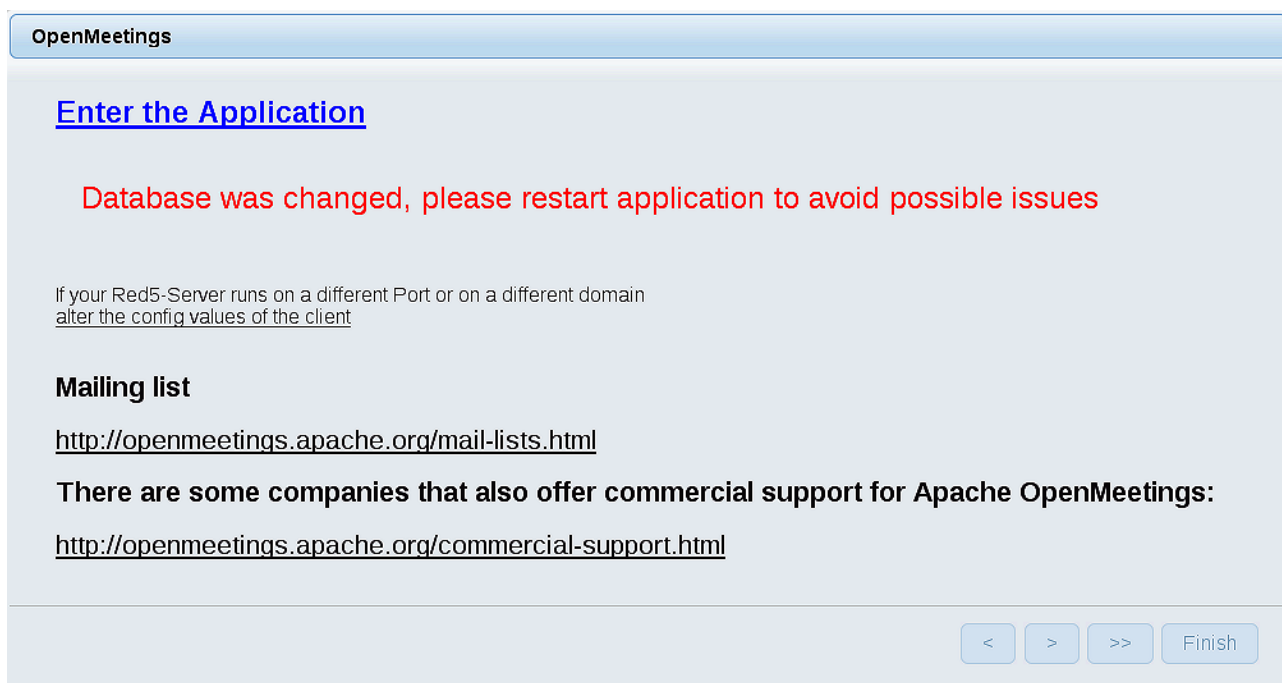
Now push the button  Will show this window:



Press **Finish** button ...wait a seconds until 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, open a new shell window, and run this command (be connected to Internet):

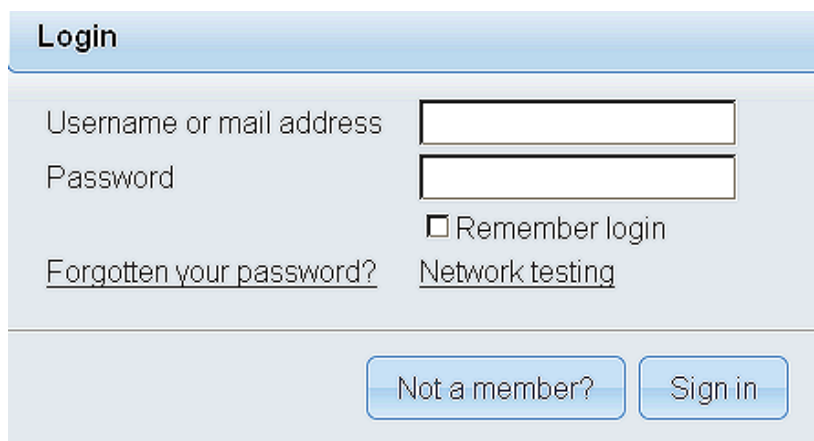
`/etc/init.d/red5-2 restart`



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:



Login

Username or mail address

Password

Remember login

[Forgotten your password?](#) [Network testing](#)

Introduce the user's name and the password that you have chosen during the installation, push **Sign in** button, and...

...**Congratulations!**

The next time that you like to accede 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.

12)


----- **Configuration of OpenMeetings** -----

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

Administration → Configuration

Home ▾ Rooms ▾ Recordings ▾ Administration ▾

Welcome




Hello firstname lastname

Timezone Europe/Madrid
Unread messages [0](#)
[Edit your profile](#)

[Upload new image](#)

Help and support



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

Home ▾ Rooms ▾ Recordings ▾ Administration ▾

50 [Navigation icons] Search

ID	Key	Value
1	crypt.class.name	org.apache.openmeetings.util.crypt.SCryptImplementation
2	allow.frontend.register	true
3	allow.soap.register	true
4	allow.oauth.register	true
5	default.group.id	1
6	mail.smtp.server	localhost
7	mail.smtp.port	25
8	mail.smtp.system.email	noreply@openmeetings.apache.org
9	mail.smtp.user	
10	mail.smtp.pass	
11	mail.smtp.starttls.enable	false
12	mail.smtp.connection.timeout	30000
13	mail.smtp.timeout	30000
14	application.name	OpenMeetings
15	default.lang.id	8
16	document.dpi	150
17	document.quality	90
18	path.imagemagick	
19	path.sox	
20	path.ffmpeg	
21	path.office	
22	dashboard.rss.feed1	http://mail-archives.apache.org/mod_mbox/openmeetings-user/?format=atom
23	dashboard.rss.feed2	http://mail-archives.apache.org/mod_mbox/openmeetings-dev/?format=atom
24	send.email.at.register	false
25	send.email.with.verification	false

Configuration

Type: string



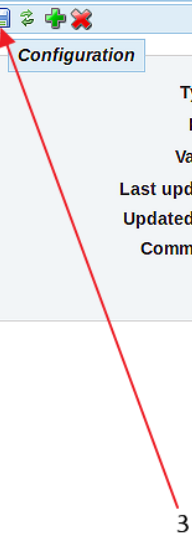
Key: path.ffmpeg

Value:

Last update: Oct 17, 2017 5:54:57 PM

Updated by: toro

Comment: Path To FFmpeg

1 2 3

Chat

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

<http://openmeetings.apache.org/mailling-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 4.0.9 on Ubuntu 18.04 Its is at your disposal.

Can find it here:

[Live iso download](#)

Thank you.

Alvaro Bustos