



Installation of Apache OpenMeetings 4.0.10 on Manjaro 18.1

This tutorial is based on a fresh installations of

manjaro-mate-18.1.0-stable-x86_64.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

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:

`pacman -Syu`

2)

----- Installation of Java -----

Java it is necessary for OpenMeetings 4.0.10. We'll install Open Java 11.
Continue as root:

```
pacman -S jdk11-openjdk
```

...and the plugin that later, and being in a room, we can record and share desktop:

```
pacman -S icedtea-web
```

Do OpenJava 11 as default (maybe is another java versions) and exit as root:

```
archlinux-java set java-11-openjdk
```

```
exit
```

3)

----- Installation of LibreOffice -----

OpenMeetings will need LibreOffice to convert to pdf the uploaded office files.

We install LibreOffice:

```
sudo pacman -S libreoffice
```

...press **Enter** to any question.

4)

----- Installation of necessary packages and libraries -----

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

(Only one line with space between each one of them)

```
sudo pacman -S libjpeg ghostscript unzip gcc ncurses make zlib libtool bison bzip2 file-roller  
autoconf automake pkgconfig tomcat-native nmap curl freetype2 nano base-devel fakeroot jshon  
expac git wget
```

5)

----- Installation ImageMagick and Sox -----

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

```
sudo pacman -S imagemagick
```

Sox, work the sound. We install it:

```
sudo pacman -S sox
```

6)

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

OpenMeetings even need Adobe Flash Player for cam and audio. We install it:

```
sudo pacman -S flashplugin
```

7)

----- **Installation of FFmpeg** -----

FFmpeg work with video. Will install a libraries, paquets, and vlc to play the recordings that we'll make in OpenMeetings:

(Only one line with space between both)

```
sudo pacman -S ffmpeg lame glibc faac faad2 gsm imlib2 vorbis-tools autoconf automake cmake  
gcc git libtool make mercurial nasm pkgconfig yasm vlc qt4
```

8)

----- **Installation of MariaDB data server** -----

MariaDB is the data server. We install it: (continue as root in shell)

```
sudo pacman -S mariadb
```

Initialize data directories (be connected to Internet):

```
sudo mysql_install_db --user=mysql --basedir=/usr --datadir=/var/lib/mysql
```

...and run MariaDB:

```
sudo systemctl start mysqld
```

Give a password to MariaDB root . Please, modify **new-password** by your own and remember it:

```
sudo mysqladmin -u root password new-password
```

Access to MariaDB:

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

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

Make a database called open4010, for OpenMeetings. User password must be of 8 digits minimum:

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

Now we create a user with all permission on this open4010 database:

(Only one line with space between both)

```
MariaDB [(none)]> GRANT ALL PRIVILEGES ON open4010.* TO 'hola'@'localhost'  
IDENTIFIED BY '1a2B3c4D' WITH GRANT OPTION;
```

```
* open4010 ..... name of the database  
* hola ..... user for that database  
* 1a2B3c4D .....password of this user
```

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

```
sudo mkdir /opt/red54010
```

```
cd /opt/red54010
```

...and download the OpenMeetings file:

(Only one line without space between both)

```
sudo wget http://archive.apache.org/dist/openmeetings/4.0.10/bin/apache-openmeetings-4.0.10.tar.gz
```

```
sudo tar xzvf apache-openmeetings-4.0.10.tar.gz
```

...save the unloaded file to /opt:

```
sudo 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)

```
sudo 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:

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

10)

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

We make the folder /etc/init.d, where put the red5 run script:

```
sudo mkdir /etc/init.d
```

Download the script to run red5-OpenMeetings:

```
cd /opt
```

```
sudo wget https://cwiki.apache.org/confluence/download/attachments/27838216/red5-2
```

...copy it to where must be:

```
sudo cp red5-2 /etc/init.d/
```

...concede execution permission:

```
sudo 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:

```
sudo systemctl restart mysqld
```

...and run red5-OpenMeetings. Please open a new terminal:

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

...wait 30 or 40 seconds for running red5-OpenMeetings completly. Then, go with the browser to:

<http://localhost:5080/openmeetings>

...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:

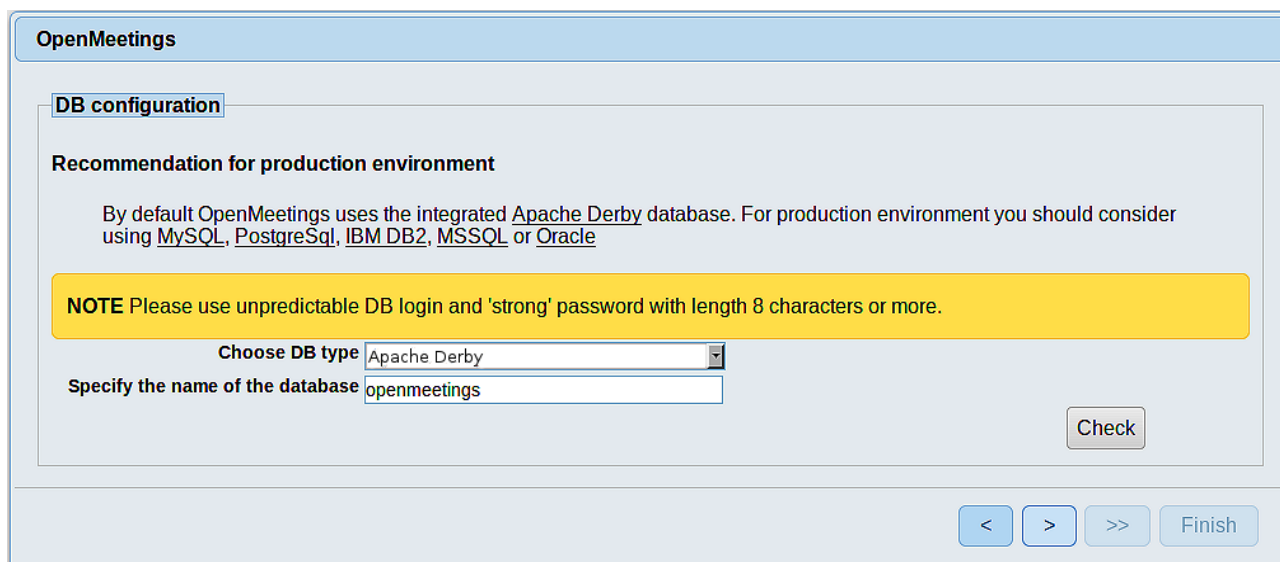
[Mailing lists](#)

Commercial-Support:

[Commercial-Support](#)

< > >> Finish

...push on  (bottom), and will show the default configuration with Derby, but we employ MySQL (MariaDB):



OpenMeetings

DB configuration

Recommendation for production environment

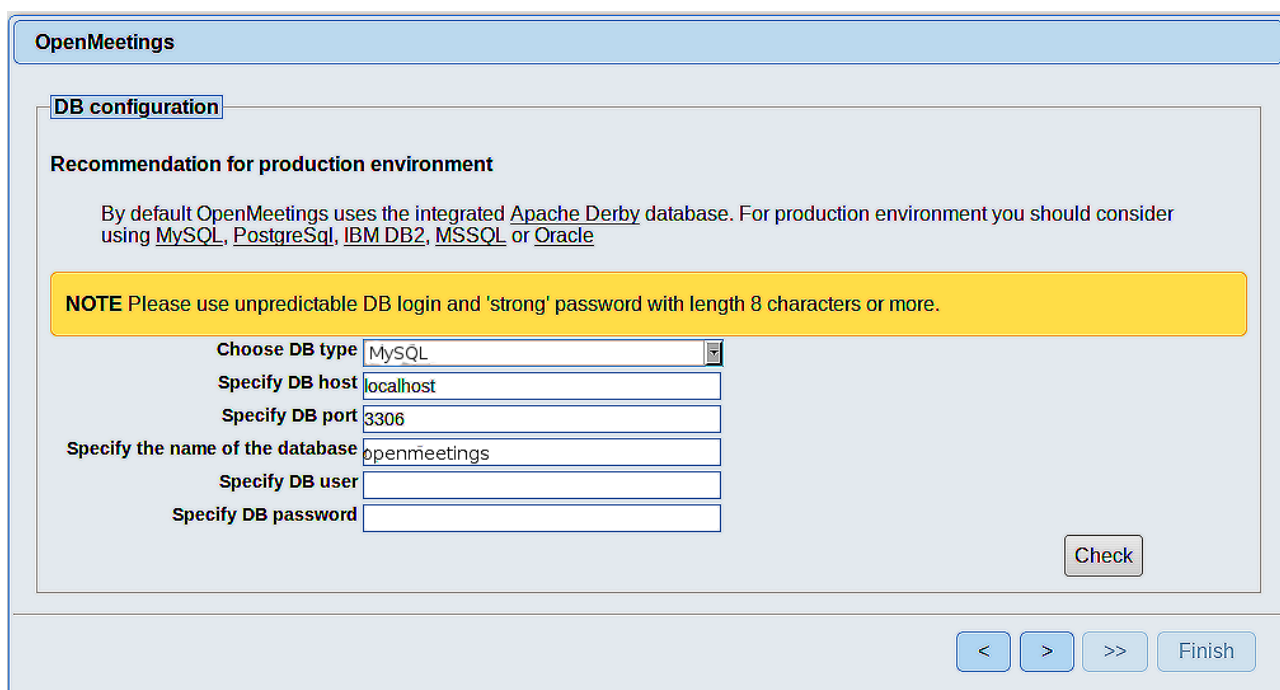
By default OpenMeetings uses the integrated [Apache Derby](#) database. For production environment you should consider using [MySQL](#), [PostgreSQL](#), [IBM DB2](#), [MSSQL](#) or [Oracle](#)

NOTE Please use unpredictable DB login and 'strong' password with length 8 characters or more.

Choose DB type

Specify the name of the database

...so, 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

Specify DB host

Specify DB port

Specify the name of the database

Specify DB user

Specify DB password

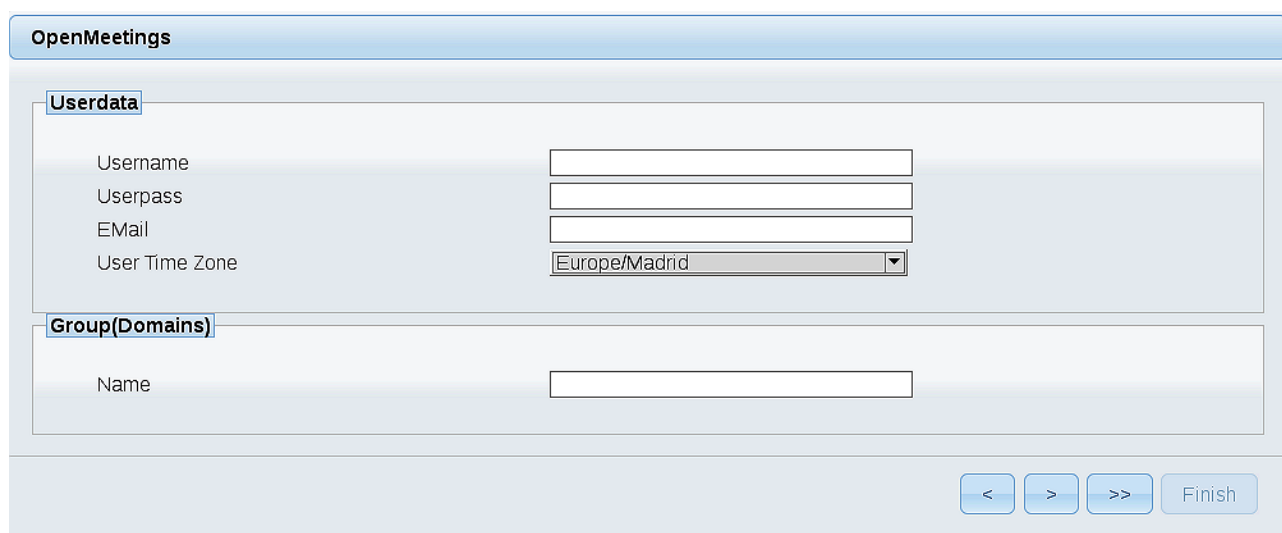
Now we must introduce the database name, user name and his password we did at the step 8:

Specify the name of the database = open4010

Specify DB user = hola

Specify DB password = 1a2B3c4D

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

Email = email-adres ...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:

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="password"/>
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 change it as you like.

Now press the button and a new page will appear:

OpenMeetings

Converters

Document conversion DPI ⓘ

Document conversion JPEG Quality ⓘ

ImageMagick Path ⓘ

FFMPEG Path ⓘ

SoX Path ⓘ

OpenOffice/LibreOffice Path for jodconverter ⓘ

see also [Installation](#)

< > >> Finish

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

ImageMagick Path == `/usr/bin`

FFMPEG Path == `/usr/bin`

SOX Path == `/usr/bin`

OpenOffice/LibreOffice Path for jodconverter == `/usr/lib/libreoffice`

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:

OpenMeetings

Crypt Type

Crypt Class ⓘ

red5SIP Configuration

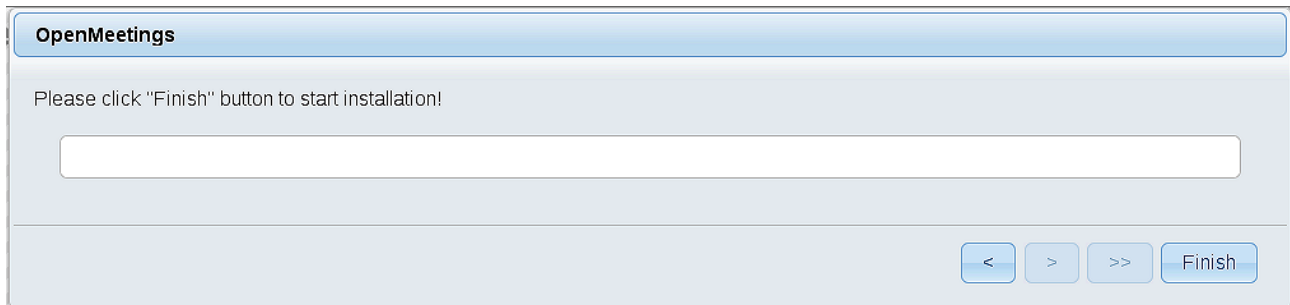
Enable SIP ⓘ

SIP rooms prefix ⓘ

SIP extensions context ⓘ

< > >> Finish

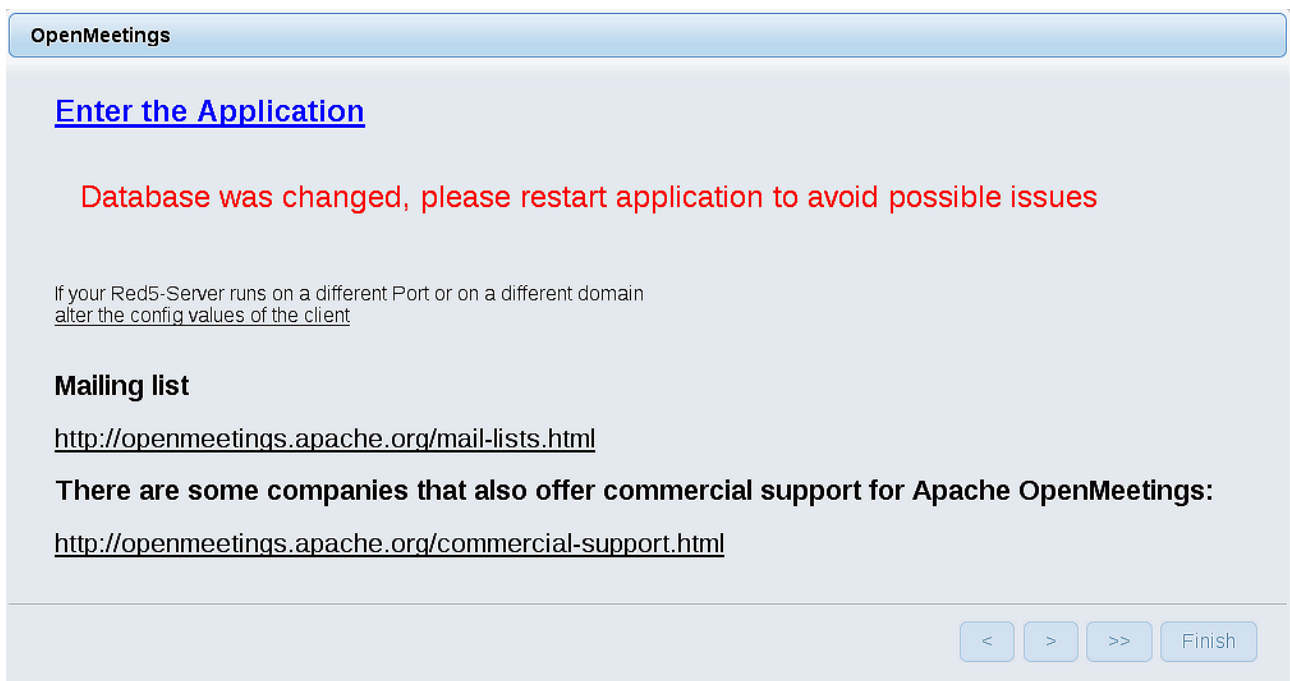
Now, touch the button  Will show this window:



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 connectd to Internet. Open a new terminal as root:

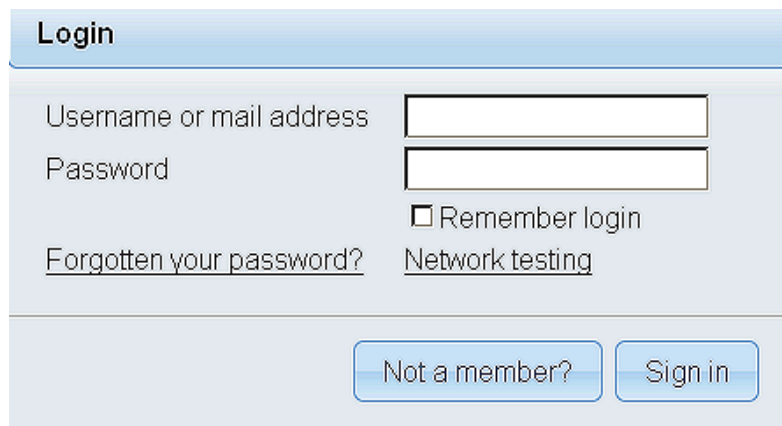
```
sudo /etc/init.d/red5-2 restart
```



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 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

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 | 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

13)

----- **Special step for ImageMagick** -----

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

```
sudo nano /etc/ImageMagick-7/policy.xml
```

...and comment the following line, near to bottom file:

```
<policy domain="coder" rights="none" pattern="{PS,PS2,PS3,EPS,PDF,XPS}" />
```

...to

```
<!-- <policy domain="coder" rights="none" pattern="{PS,PS2,PS3,EPS,PDF,XPS}" /> -->
```

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 ImageMagick.

If you have some doubt or question, please raise it in the 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 4.0.10 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).