



Installation of Apache OpenMeetings 4.0.2 on Mageia 6

Mageia-6-x86_64-DVD.iso

It is tested with positive result. We will use the Apache's binary version OpenMeetings 4.0.2 stable, that is to say will suppress his compilation. It is done step by step.

25-2-2018

Starting...

1)

Update the OS:

`urpmi.update -a`

`urpmi --auto-update`

2)

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

(Only one line with space between each one)

```
urpmi libjpeg-progs giflib-progs freetype-devel nano gcc-c++ libtool bison file-roller ghostscript  
freetype unzip gcc ncurses make bzip2 wget ghostscript ncurses git make automake pavucontrol  
freetype2 curl
```

3)

----- **Installation of OpenJava 1.8 and Icedtea-web** -----

OpenMeetings need Java to work. Please download OpenJava:

```
cd /opt
```

(Only one line without space between both)

```
wget http://distrib-coffee.ipsl.jussieu.fr/pub/linux/Mageia/distrib/6/x86_64/  
media/core/updates/java-1.8.0-openjdk-devel-1.8.0.161-1.b14.1.mga6.x86_64.rpm
```

...and install it:

```
urpmi java-1.8.0-openjdk-devel-1.8.0.161-1.b14.1.mga6.x86_64.rpm
```

Now we install Icedtea-web can recording and share desktop in OpenMeetings:

```
urpmi icedtea-web
```

4)

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

LibreOffice is need it to convert office files uploaded to pdf. We install it:

```
urpmi libreoffice
```

5)

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

Adobe Flash Player, even is need it for webcam and audio in OpenMeetings rooms:

```
urpmi flash-player-plugin
```

6)

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

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

```
urpmi ImageMagick
```

Sox, work the sound. We install it:

```
urpmi sox
```

7)

----- **Compiling and installing FFmpeg** -----

To compile and install ffmpeg, i've followed a guide with some modifications.
Files updated 25-2-2018:

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

We install some libraries and packets:

(Only one line without space between both)

```
urpmi libmp3lame-devel freetype2-devel autoconf automake bzip2 cmake freetype-devel gcc gcc-  
c++ git libtool make mercurial pkgconfig zlib-devel
```

Download the script that will compile ffmpeg:

```
cd /opt
```

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

...concede execution permission:

```
chmod +x ffmpeg-mageia.sh
```

...and runn it (be connected to Internet):

```
./ffmpeg-mageia.sh
```

The compilation spend about 25 minutes. When finish will show this text:

FFmpeg Compilation is Finished!

FFmpeg is installed in: /usr/local/bin

8)

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

We'll employ MariaDB data server. Install it:

```
urpmi mariadb
```

...run MariaDB:

```
systemctl start mysqld.service
```

... do a mysql upgrade:

```
mysql_upgrade
```

...and give a root password in MariaDB:

```
mysql_secure_installation
```

...will ask some questions:

...Enter current password for root (enter for none)..... press **Enter**

...Set root password [Y/n] press **Enter**

...New password:type a password that you like

...Re-enter new password: type again the same password

...Remove anonymous users? [Y/n] press **Enter**

...Disallow root login remotely? [Y/n] press **Enter**

...Remove test database and access to it? [Y/n] press **Enter**

...Reload privilege tables now? [Y/n] press **Enter**

Now we make a database in MariaDB for OpenMeetings:

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

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

```
MariaDB [(none)]> CREATE DATABASE open402 DEFAULT CHARACTER SET 'utf8';
```

(Only one line with space between both)

```
MariaDB [(none)]> GRANT ALL PRIVILEGES ON open402.* TO 'hola'@'localhost'
IDENTIFIED BY 'Pruv_dw8' WITH GRANT OPTION;
```

...and exit MariDB:

```
MariaDB [(none)]> quit
```

```
* open402 ..... is the database name
* hola ..... is the user name for this data bas
* Pruv_dw8 ..... is the password for this user
```

You are free to change these names and password, but remember them. Later we'll need it. The password must be of 8 digits and have:

- 1 numeric character
- 1 lowercase character
- 1 uppercase character, and
- 1 special (nonalphanumeric) character.

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

```
nano /etc/my.cnf
```

...and comment the line 51:

```
skip-networking
```

...modify it so:

```
# skip-networking
```

...press **Ctrl+x** keyboard, and when ask press **Y** and **Enter**, to save changes and exit nano editor:

Restart MariaDB:

```
systemctl restart mysqld.service
```

9)

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

We'll install the 4.0.2 stable release.

Make a folder called red5402 where download the Apache OpenMeetings file and where make the installation:

```
mkdir /opt/red5402
```

```
cd /opt/red5402
```

```
wget http://apache.miloslavbrada.cz/openmeetings/4.0.2/bin/apache-openmeetings-4.0.2.zip
```

```
unzip apache-openmeetings-4.0.2.zip
```

```
mv apache-openmeetings-4.0.2.zip /opt
```

10)

----- Connector Java MariaDB -----

This file-driver is need it to connect OpenMeetings with MariaDB. Download and install it:

```
cd /opt
```

(Only one line without space between both)

```
wget http://repo1.maven.org/maven2/mysql/mysql-connector-java/5.1.45/mysql-connector-java-5.1.45.jar
```

```
cp mysql-connector-java-5.1.45.jar /opt/red5402/webapps/openmeetings/WEB-INF/lib
```

11)

----- Script to launch red5-OpenMeeting -----

We download the script that 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 other path, please edit the script and modify the line:

RED5_HOME=/opt/red5402

...to

RED5_HOME=/your-path-installation

12)

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

Restart MariaDB (be connected to Internet):

`systemctl restart mysqld.service`

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

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

...wait until the text “**Rss disabled by Admin**”, 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:

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:

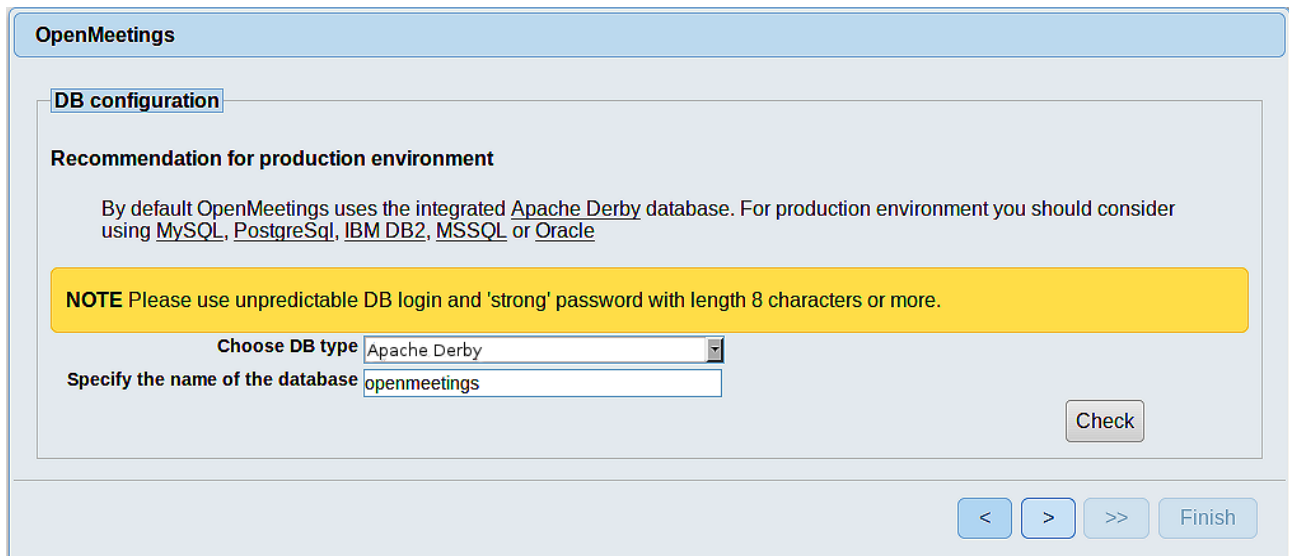
[Mailing lists](#)

Commercial-Support:

[Commercial-Support](#)

< > >> Finish

Press the button  (bottom), and will show the default database configuration with Derby, but we employ MySQL (MariaDB):



The screenshot shows the 'OpenMeetings' application window with the 'DB configuration' section. It includes a recommendation for a production environment, a note about using unpredictable DB login and strong passwords, and a form where 'Apache Derby' is selected as the DB type and 'openmeetings' is entered as the database name. A 'Check' button is visible, along with navigation buttons at the bottom.

OpenMeetings

DB configuration

Recommendation for production environment

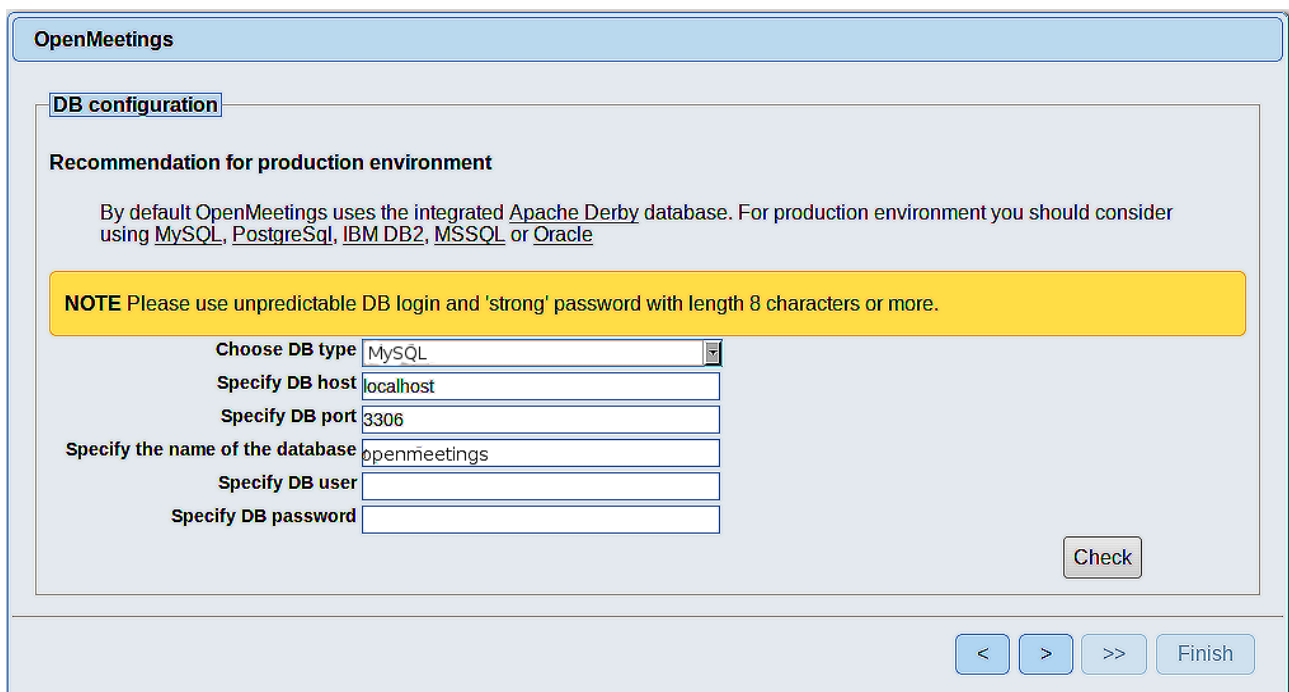
By default OpenMeetings uses the integrated Apache Derby database. For production environment you should consider using MySQL, PostgreSQL, IBM DB2, MSSQL or Oracle

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, please scroll and Choose DB type to MySQL:



The screenshot shows the 'OpenMeetings' application window with the 'DB configuration' section. It includes the same recommendation and note as the previous screenshot. In this view, 'MySQL' is selected as the DB type, and additional fields for 'Specify DB host', 'Specify DB port', 'Specify DB user', and 'Specify DB password' are visible. The 'Specify the name of the database' field still contains 'openmeetings'. A 'Check' button and navigation buttons are also present.

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

...we must introduce the database name, user and password we did for our data base, at the step 8:

Specify the name of the database = open402
 Specify DB user = hola
 Specify DB password = Pruv_dw8

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

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 have administrator rights
Userpass = a-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:

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

To select the language of your server OpenMeetings, please scroll on the line:

Default language == [...select your language](#)

...the rest you can modify it as you like.

Now press the button  and a new page will appear:

OpenMeetings

Converters

Document conversion DPI ⓘ	<input style="width: 90%;" type="text" value="150"/>	
Document conversion JPEG Quality ⓘ	<input style="width: 90%;" type="text" value="90"/>	
ImageMagick Path ⓘ	<input style="width: 90%;" type="text"/>	<input type="button" value="Check"/>
FFMPEG Path ⓘ	<input style="width: 90%;" type="text"/>	<input type="button" value="Check"/>
SoX Path ⓘ	<input style="width: 90%;" type="text"/>	<input type="button" value="Check"/>
OpenOffice/LibreOffice Path for jodconverter ⓘ	<input style="width: 90%;" 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//bin`

OpenOffice/LibreOffice Path for jodconverter == `/usr/lib64/libreoffice`

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:

OpenMeetings

Crypt Type

Crypt Class ⓘ


red5SIP Configuration

Enable SIP ⓘ

SIP rooms prefix ⓘ

SIP extensions context ⓘ

< > >> Finish

Now push the button  Will show this window:

OpenMeetings

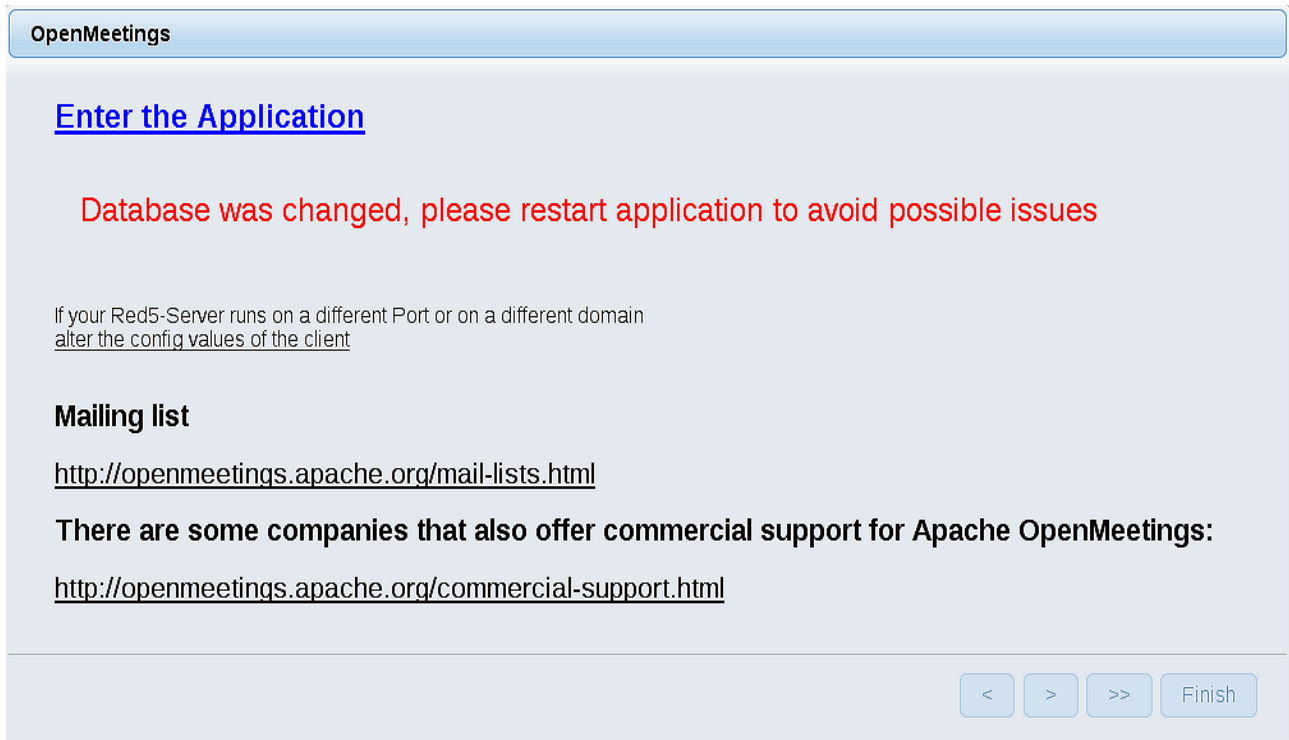
Please click "Finish" button to start installation!

< > >> 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, 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:

The screenshot shows a login form titled "Login". It contains the following fields and options:

- Username or mail address:
- Password:
- Remember login
- [Forgotten your password?](#)
- [Network testing](#)

At the bottom, there are two buttons: "Not a member?" and "Sign in".

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

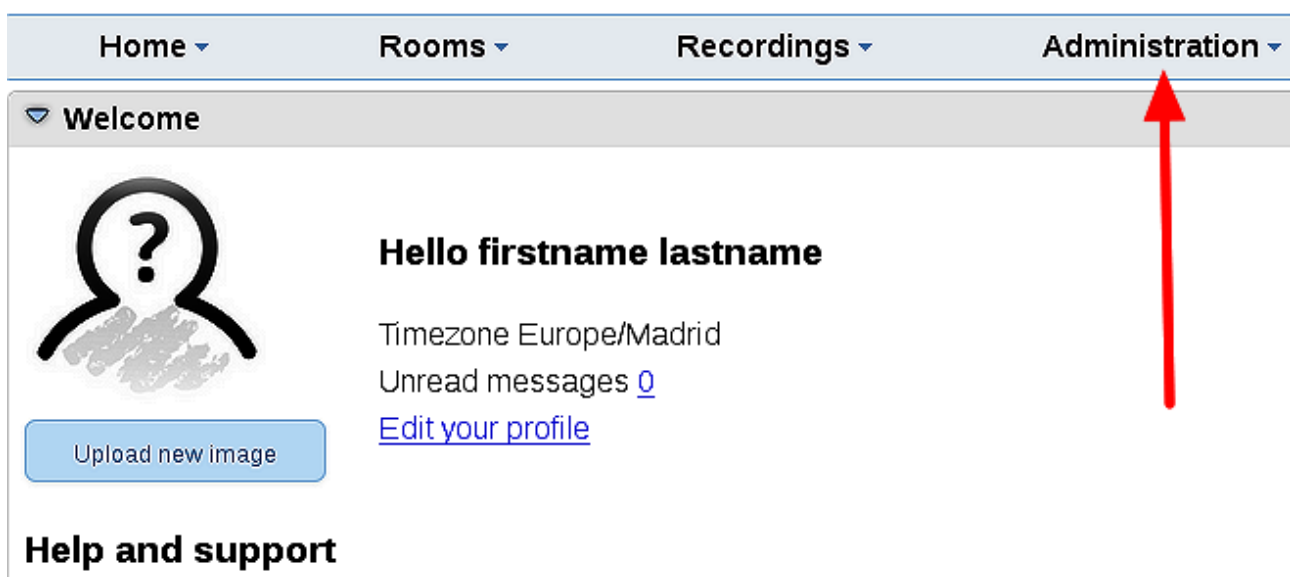
...in order that it could accede to OpenMeetings from other machines, in Lan or Internet.

13)

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

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:

The screenshot shows the Administration section of the Apache OpenMeetings interface. On the left is a table of configuration items, and on the right is a configuration form for the selected item.

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

The configuration form on the right shows the following fields:

- Type: string
- Key: path.ffmpeg
- Value: (empty)
- Last update: Oct 17, 2017 5:54:57 PM
- Updated by: toro
- Comment: Path To FFMPEG

Red arrows indicate the sequence of actions: 1 points to the 'path.ffmpeg' row in the table, 2 points to the 'Value' input field, and 3 points to the 'Save' button in the configuration form.

And this is all.

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

<http://openmeetings.apache.org/mail-lists.html>



Thank you.

Alvaro Bustos