



## Installation of Apache OpenMeetings 4.0.5 on Devuan 2 ascii

This tutorial is made based on a fresh installations of

**devuan\_ascii\_2.0.0\_amd64\_dvd-1.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)

----- Add repositories -----

Since Devuan 2 ascii it is Debian 9 but without systemd, we'll add the repos of this to our Devuan.  
First install nano editor:

```
apt install nano
```

...we edit sources.list:

```
nano /etc/apt/sources.list
```

...and add the following repos (copy and paste green text):

```
deb http://security.debian.org/debian-security/ stretch/updates main
deb-src http://security.debian.org/debian-security/ stretch/updates main
deb http://ftp.fr.debian.org/debian/ stretch main contrib non-free
deb-src http://ftp.fr.debian.org/debian/ stretch main contrib non-free
deb http://mirrors.kernel.org/debian/ stretch-updates main contrib non-free
deb-src http://mirrors.kernel.org/debian/ stretch-updates main contrib non-free
```

Press **Ctrl+x**, will ask to save, press **Y** and to exit nano press **Enter**.

Now, we update the system operative:

```
apt update
```

```
apt upgrade
```

2)

### ----- Installation of OpenJava 1.8 -----

OpenMeetings **4.0.5** need Java **1.8** 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-8-plugin
```

Now, please, select OpenJava, 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 debian desktop iso have already LibreOffice installed.

We do it also for server iso:

```
sudo apt 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 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 is in the repos:

```
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. On Debian 9 is not easy install it from repos. We'll do almost manually:

```
cd /opt
```

```
mkdir flashplayer
```

```
cd flashplayer
```

(Only one line without space between both)

```
wget http://slackware.uk/people/alien/slackbuilds/flashplayer-plugin/build/  
flash_player_npapi_linux.31.0.0.108.x86_64.tar.gz
```

```
tar zxvf flash_player_npapi_linux.31.0.0.108.x86_64.tar.gz
```

...please, modify **you-user**, by your real user name:

```
mkdir /home/you-user/.mozilla/plugins
```

```
cp libflashplayer.so /home/you-user/.mozilla/plugins
```

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 -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
```

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_UbunDebi.sh
```

...concede permission of execution:

```
chmod +x ffmpeg_UbunDebi.sh
```

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

```
./ffmpeg_UbunDebi.sh
```

When finish the compilation, a text will announce it:

**FFmpeg Compilation is Finished!**

Then, please, continue to **step 7)**.

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 chosen, type it...

```
MariaDB [(none)]> CREATE DATABASE open405 DEFAULT CHARACTER SET 'utf8';
```

With this command we has created a database called open405.

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 open405.* TO 'hola'@'localhost'  
IDENTIFIED BY '1a2B3c4D' 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
```

...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:

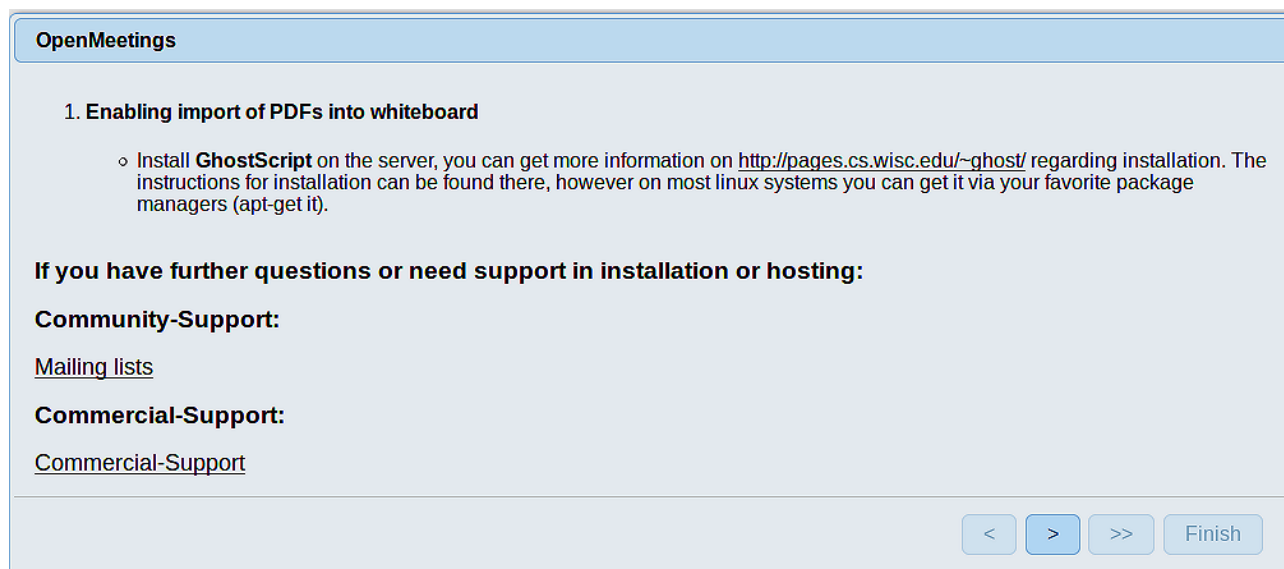
```
start-stop-daemon: --start needs --exec or --startas
Try 'start-stop-daemon --help' for more information.
```


...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),

**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

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

**OpenMeetings**

**DB configuration**

**Recommendation for production environment**

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**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

Here 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

If you choosed a different data, please introduce it here.

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:

**OpenMeetings**


**Configuration**

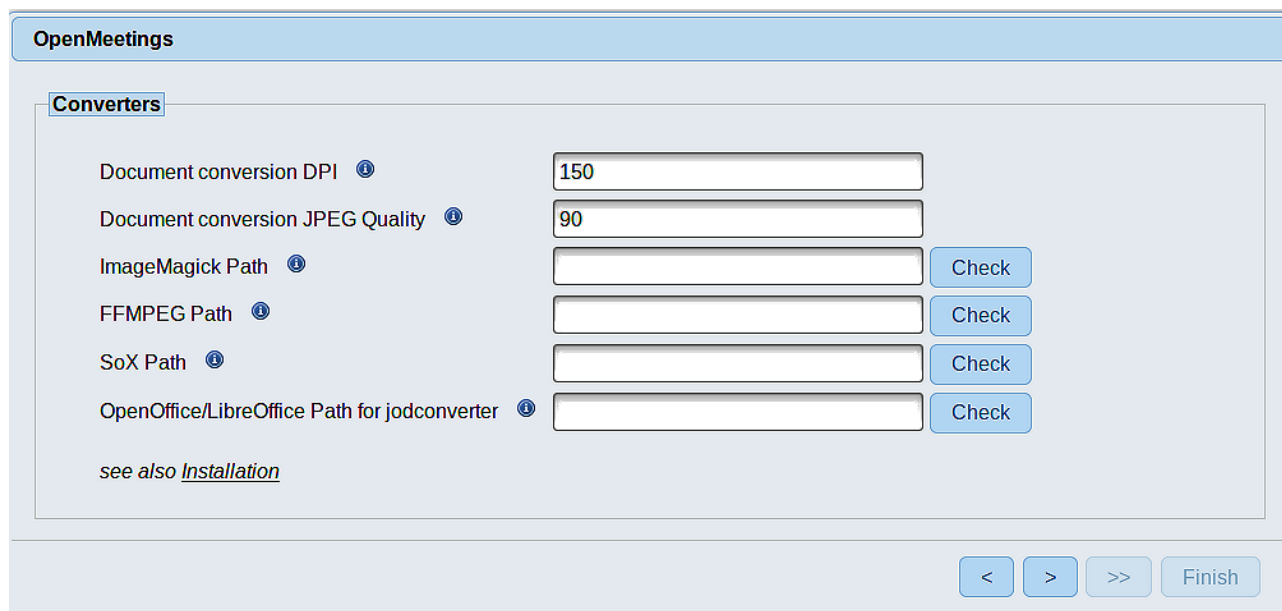
|  |  |
|--|--|
| Allow self-registering   | <input checked="" type="checkbox"/>                          |
| Send Email to new registered Users   | <input type="checkbox"/>                                     |
| New Users need to verify their EMail   | <input type="checkbox"/>                                     |
| 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)

|  |    |  |
|--|----|--|
| <b>Mail-Refer</b>  | == | <a href="mailto:john@gmail.com">john@gmail.com</a>             |
| <b>SMTP-Server</b>                                       | == | <a href="mailto:smtp@gmail.com">smtp.gmail.com</a>             |
| <b>SMTP-Server Port (default SmtP-Server Port is 25)</b> | == | 587  |
| <b>SMTP-Username</b>                                     | == | <a href="mailto:john@gmail.com">john@gmail.com</a>             |
| <b>SMTP-Userpass</b>                                     | == | password of <a href="mailto:john@gmail.com">john@gmail.com</a> |
| <b>Enable TLS in Mail Server Auth</b>                    | == | ...turn green the button to activate                           |
| <b>Default Language</b>                                  | == | ...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/local/bin`

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

**OpenOffice/LibreOffice Path for jodconverter** == `/usr/lib/libreoffice (32bit - 64bit)`

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:

The screenshot shows a configuration window titled "OpenMeetings". It has two main sections:

- Crypt Type:** A label "Crypt Class" with a help icon is followed by a text input field containing the value "org.apache.openmeetings.util.crypt.SCr".
- red5SIP Configuration:** This section contains three items:
  - "Enable SIP" with a help icon and a red toggle switch.
  - "SIP rooms prefix" with a help icon and a text input field containing "400".
  - "SIP extensions context" with a help icon and a text input field containing "rooms".

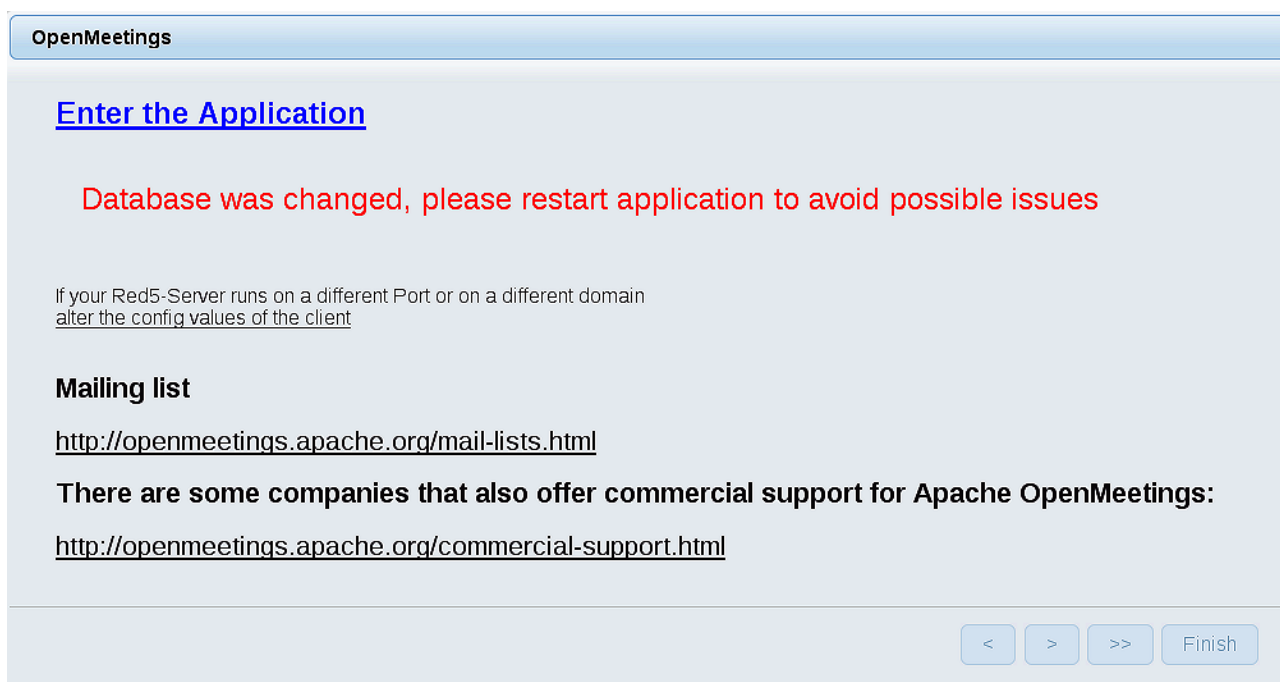
At the bottom right of the window, there are four buttons: "<", ">", ">>", and "Finish".

Now push the button  and will show this window:

The screenshot shows the same "OpenMeetings" window. The main area now contains the text "Please click 'Finish' button to start installation!". Below this text is a large, empty white rectangular box. At the bottom right, the same four buttons ("<", ">", ">>", "Finish") are visible.

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:

The screenshot shows a "Login" window with a blue header bar. It contains two input fields: "Username or mail address" and "Password". Below the password field is a checkbox labeled "Remember login". At the bottom left, there is a link "Forgotten your password?" and at the bottom right, a link "Network testing". At the very 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 accede to OpenMeetings would be:

<http://localhost:5080/openmeetings>

Remember to open in the server the two following ports:

**1935 5080**

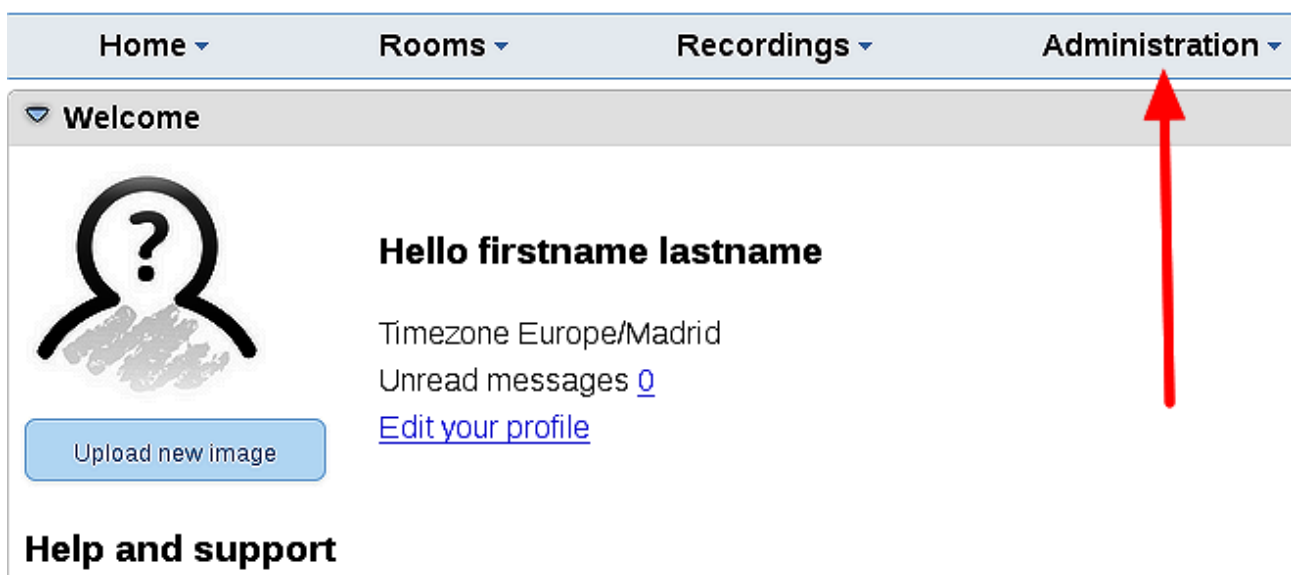
...in order that it could accede to OpenMeetings from other machines in LAN or Internet.

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**



The screenshot displays the OpenMeetings user interface. At the top, there is a navigation bar with four items: "Home", "Rooms", "Recordings", and "Administration", each with a downward-pointing arrow. Below this bar is a "Welcome" section with a user profile icon (a question mark inside a circle) and the text "Hello firstname lastname". To the right of the profile, it shows "Timezone Europe/Madrid" and "Unread messages 0". Below the profile icon is a button labeled "Upload new image". At the bottom of the welcome section is a link "Edit your profile". A red arrow points upwards from the bottom of the page towards the "Administration" menu item in the navigation bar.

...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

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