

# Installation of Apache OpenMeetings 3.3.0

on

## Fedora 26 final

This tutorial it is bassed on a fresh installation of

## Fedora-MATE\_Compiz-Live-x86\_64-26-1.5.iso

It is tested with positive result. We will use the Apache's binary version OpenMeetings 3.3.0 stable, that is to say we'll suppress his compilation. It is done step by step.

22-7-2017

Starting...

1)

At first place, modify Selinux level security, for the installation, and install nano editor:

dnf install nano

sudo nano /etc/selinux/config

...modify:

SELINUX=enforcing

...to

SELINUX=permissive

Press Ctrl+x and will ask to save, press Y, and Enter, to save and leave nano's editor.

2)

----- Update Operative System ------

Update operative system:

dnf update -y

...and reboot, for kernel changes if it is, and the new Selinux configuration:

reboot

3)

----- ADD Repos

## RPM Fusion repo ##

(Only one line without space between them)

su -c 'dnf install --nogpgcheck http://download1.rpmfusion.org/free/fedora/rpmfusion-free-release-26.noarch.rpm http://download1.rpmfusion.org/nonfree/fedora/rpmfusion-nonfree-release-26.noarch.rpm'

### Adobe repo 32 bit ### For Flash Player.

rpm -ivh http://linuxdownload.adobe.com/adobe-release/adobe-release-i386-1.0-1.noarch.rpm

rpm --import /etc/pki/rpm-gpg/RPM-GPG-KEY-adobe-linux

### Adobe repo 64-bit ### For Flash Player.

rpm -ivh http://linuxdownload.adobe.com/adobe-release/adobe-release-x86\_64-1.0-1.noarch.rpm

rpm --import /etc/pki/rpm-gpg/RPM-GPG-KEY-adobe-linux

Update again:

dnf update -y

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

We install packages and libraries necessary:

(Only one line with a space between them)

dnf install -y libjpeg-turbo libjpeg-turbo-devel libjpeg-turbo-utils giflib-devel freetype-devel gccc++ zlib-devel libtool bison bison-devel file-roller ghostscript freetype unzip gcc ncurses make bzip2 wget ghostscript ncurses zlib git make automake nasm pavucontrol alsa-plugins-pulseaudio nmap tomcat-native 'dnf-command(versionlock)'

5)

----- Installation of Java 1.8 ------

Java **1.8** is need it to work OpenMeetings **3.3.0**. Will install Oracle Java 1.8. Open Java gaves an error in some OpenMeetings function. It is tested.

-- Only for Fedora 32 bit --

cd /opt

Download the file:

(All in one line only. 1<sup>a</sup> and 2<sup>a</sup> without space between them. A space to the 3<sup>a</sup>. Together 3<sup>a</sup> and 4<sup>a</sup>)

wget --no-cookies --no-check-certificate --header "Cookie: gpw\_e24=http%3A%2F %2Fwww.oracle.com%2F; oraclelicense=accept-securebackup-cookie" http://download.oracle.com/otn-pub/java/jdk/8u131-b11/d54c1d3a095b4ff2b6607d096fa80163/jdk-8u131-linux-i586.rpm

...and install it:

rpm -ivh jdk-8u131-linux-i586.rpm

# -- Only for Fedora 64 bit -

cd /opt

Download the file:

(All in one line only. 1<sup>a</sup> and 2<sup>a</sup> without space between them. A space to the 3<sup>a</sup>. Together 3<sup>a</sup> and 4<sup>a</sup>)

wget --no-cookies --no-check-certificate --header "Cookie: gpw\_e24=http%3A%2F %2Fwww.oracle.com%2F; oraclelicense=accept-securebackup-cookie" http://download.oracle.com/otn-pub/java/jdk/8u131-b11/d54c1d3a095b4ff2b6607d096fa80163/jdk-8u131-linux-x64.rpm

4)

...and install it:

rpm -ivh jdk-8u131-linux-x64.rpm

#### -- Now for both, 32 bit and 64 bit -

May be you have installed different versions of Java. Please, select the just installed Oracle Java:

update-alternatives --config java

And to see if the selected version is active:

java -version

6)

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

LibreOffice it is installed already in the distro, but if you use a server iso then install it:

dnf -y install libreoffice

Is need it to convert uploaded office files to pdf.

7)

#### ----- Installation of ImageMagick, Sox and Swftools -----

ImageMagick, work with the images files jpg, png, gif, etc. Install it:

dnf -y install ImageMagick

Sox, work with the audio. Install it:

#### dnf -y install sox

**Swftools**. LibreOffice convert the uploaded office files to pdf, and Swftools convert these pdf to swf (flash file), that later will show in the whiteboard. We'll install it from the repo, 'cause this version (0.9.2-4.fc25) have the pdf2swf file. Also we'll block it to prevent changes:

dnf install -y swftools

...and to block the version:

#### nano /etc/dnf/dnf.conf

...at bottom we add:

## exclude=swftools

Press Ctrl+x and will ask to save, press Y, and Enter, to save and leave nano's editor.

8)

# ----- Installation of Adobe Flash Player -----

OpenMeetings even need Adobe Flash Player for rooms. We install it:

dnf install -y flash-plugin

9)

# ----- Compilation of FFmpeg ------

FFmpeg will work with video. Will install a paquets and libraries.

# (Only one line with space between both)

dnf install -y glibc alsa-lib-devel gsm gsm-devel imlib2 imlib2-devel libogg libvorbis vorbis-tools theora-tools libvpx-devel mercurial cmake curl git vlc

This ffmpeg compilation is based on this url, and updated to 22-7-2017.

# https://trac.ffmpeg.org/wiki/CompilationGuide/Centos

I made a script to download, compile and install ffmpeg on Fedora. It is tested and is ok. The result of any recording we do in OpenMeetings, will be in mp4 format.

We download this script:

cd /opt

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

...concede execution permission:

chmod +x ffmpeg-fedora.sh

...and run it:

./ffmpeg-fedora.sh

The compilation will spend about 20-30 minutes.

At the end, a text will apear: FFMPEG Compilation is Finished!

Then, please go to step 10).

But if you prefer copy and paste, i don't advise, here are the commands script:

sudo nano /opt/ffmpeg-fedora.sh

...copy the green text **from here**:

# FFmpeg compilation for Fedora.# Alvaro Bustos, thanks to Hunter.

# Updated 22-7-2017

# Install libraries dnf install -y autoconf automake cmake freetype-devel gcc gcc-c++ git libtool make mercurial nasm pkgconfig zlib-devel

# Install yasm from repos dnf install -y yasm

# Create a temporary directory for sources. SOURCES=\$(mkdir ~/ffmpeg\_sources) cd ~/ffmpeg\_sources

```
# Download the necessary sources.
curl -#LO ftp://ftp.videolan.org/pub/x264/snapshots/last_stable_x264.tar.bz2
hg clone https://bitbucket.org/multicoreware/x265
git clone --depth 1 git://git.code.sf.net/p/opencore-amr/fdk-aac
curl -L -O http://downloads.sourceforge.net/project/lame/lame/3.99/lame-3.99.5.tar.gz
wget http://downloads.xiph.org/releases/opus/opus-1.1.3.tar.gz
wget http://downloads.xiph.org/releases/ogg/libogg-1.3.2.tar.gz
wget http://downloads.xiph.org/releases/vorbis/libvorbis-1.3.5.tar.gz
git clone --depth 1 https://chromium.googlesource.com/webm/libvpx.git
git clone --depth 1 git://source.ffmpeg.org/ffmpeg
```

# Unpack files
for file in `ls ~/ffmpeg\_sources/\*.tar.\*`; do
tar -xvf \$file

done

cd x264-\*/

./configure --prefix="\$HOME/ffmpeg\_build" --bindir="\$HOME/bin" --enable-static && make && make install && make distclean; cd ..

## cd x265/build/linux

cmake -G "Unix Makefiles" -DCMAKE\_INSTALL\_PREFIX="\$HOME/ffmpeg\_build" -DENABLE\_SHARED:bool=off ../../source && make && make install; cd ~/ffmpeg\_sources

#### cd fdk-aac

autoreconf -fiv && ./configure --prefix="\$HOME/ffmpeg\_build" --disable-shared && make && make install && make distclean; cd ..

#### cd lame-\*/

./configure --prefix="\$HOME/ffmpeg\_build" --bindir="\$HOME/bin" --disable-shared --enablenasm && make && make install && make distclean; cd ..

## cd opus-\*/

autoreconf -fiv && ./configure --prefix="\$HOME/ffmpeg\_build" --disable-shared && make && make install && make distclean; cd ..

## cd libogg-\*/

./configure --prefix="\$HOME/ffmpeg\_build" --disable-shared && make && make install && make distclean; cd ..

## cd libvorbis-\*/

LDFLAGS="-L\$HOME/ffmeg\_build/lib" CPPFLAGS="-I\$HOME/ffmpeg\_build/include" ./configure --prefix="\$HOME/ffmpeg\_build" --with-ogg="\$HOME/ffmpeg\_build" --disable-shared && make && make install && make distclean; cd ..

#### cd libtheora-\*/

./configure --prefix="\$HOME/ffmpeg\_build" --with-ogg="\$HOME/ffmpeg\_build" --disableexamples --disable-shared --disable-sdltest --disable-vorbistest && make && make install; cd ...

cd libvpx

./configure --prefix="\$HOME/ffmpeg\_build" --disable-examples && make && make install && make clean; cd ..

# cd ffmpeg

PKG\_CONFIG\_PATH="\$HOME/ffmpeg\_build/lib/pkgconfig" ./configure --prefix="\$HOME/ffmpeg\_build" --extra-cflags="-I\$HOME/ffmpeg\_build/include" --extraldflags="-L\$HOME/ffmpeg\_build/lib" --bindir="\$HOME/bin" --pkg-config-flags="--static" --enable-gpl --enable-nonfree --enable-libfdk\_aac --enable-libfreetype --enable-libmp3lame --enable-libopus --enable-libvorbis --enable-libvpx --enable-libx264 --enable-libx265 --enablelibtheora && make && make install && make distclean && hash -r; cd ..

cd ~/bin cp ffmpeg ffprobe ffserver lame x264 /usr/local/bin

cd ~/ffmpeg\_build/bin cp x265 /usr/local/bin

echo "FFMPEG Compilation is Finished!"

...to here.

#### Concede permission of execution:

chmod +x /opt/ffpmeg-fedora.sh

#### cd /opt

Now be connected to Internet, run the script and wait some long minutes while the compilation:

./ffmpeg-fedora.sh

All the compiled files will be installed on: /usr/local/bin

## 10)

## ----- Installation of MariaDB data server -----

MariaDB is the data server fork of MySQL.

We install it:

dnf install -y mariadb mariadb-server

...and run MariaDB (be connected to Internet, to run it quickly):

systemctl start mariadb.service

Give a password to root in MariaDB. Please, replace **new-password** by your own whish:

mysqladmin -u root password new-password

Make a database for OpenMeetings:

#### mysql -u root -p

...will ask for the root password we does just now:

MariaDB [(none)]> CREATE DATABASE open330 DEFAULT CHARACTER SET 'utf8';

Now we create a user with all permision on this open330 database. User password must be of 8 digits minimum:

(Only one line with space between both)

MariaDB [(none)]> GRANT ALL PRIVILEGES ON open330.\* TO 'hola'@'localhost' IDENTIFIED BY 'la2B3c4D' WITH GRANT OPTION;

You can change the data...but remember it! Later we'll need it.

Now we leave MariaDB:

MariaDB [(none)]> quit

11)

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

Make a folder called **red5330** where download the Apache OpenMeetings file, and where we'll do the installation:

mkdir /opt/red5330

cd /opt/red5330

...and download the file:

wget http://apache.miloslavbrada.cz/openmeetings/3.3.0/bin/apache-openmeetings-3.3.0.zip

unzip apache-openmeetings-3.3.0.zip

...save the original file to /opt:

mv apache-openmeetings-3.3.0.zip /opt

12)

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

This file is need it to connect OpenMeetings with MariaDB:

cd /opt

(Only one line without space between both)

wget http://repo1.maven.org/maven2/mysql/mysql-connector-java/5.1.42/mysql-connector-java-5.1.42.jar

cp mysql-connector-java-5.1.42.jar /opt/red5330/webapps/openmeetings/WEB-INF/lib

# ----- Configuration of OpenMeetings for MariaDB ------

Will configure OpenMeetings to connect with our database in MariaDB:

(Only one line without space between both)

sudo nano /opt/red5330/webapps/openmeetings/WEB-INF/classes/META-INF/mysql\_persistence.xml

## Modify line 72:

Url=jdbc:mysql://localhost:3306/openmeetings\_3\_3?.....

to

Url=jdbc:mysql://localhost:3306/open330?....

...open330 is the database name we gives when install MariaDB and build it.

If you choose any other database name, here is where to replace it.

Press Ctrl+x, will ask to save, pres Y and Enter.

Protect the access to this file:

(Only one line without space between both )

chmod 640 /opt/red5330/webapps/openmeetings/WEB-INF/classes/META-INF/mysql\_persistence.xml

## 14)

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

We'll download the script to run Red5-OpenMeetings on Fedora:

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:

#### 13)

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

If you made the installation in any other different path to /opt/red5330, please edit the script and modify the line:

RED5 HOME=/opt/red5330

...to

RED5 HOME=/your-path-installation

15)

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

Run MariaDB (be connected to Internet, to run it quickly):

systemctl start mariadb.service

...and red5-OpenMeetings (be connected to Interner, to run it quickly):

/etc/init.d/red5-2 start

...wait untill the text "clearSessionTable: 0", it is the last in the shell. Be patience. Then, go with the browser to:

http://localhost:5080/openmeetings/install

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

OpenMeetings
1. Enabling import of PDFs into whiteboard
<ul> <li>Install GhostScript on the server, you can get more information on <a href="http://pages.cs.wisc.edu/~ghost/">http://pages.cs.wisc.edu/~ghost/</a> 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).</li> <li>Install SWFTools on the server, you can get more information on <a href="http://www.swftools.org/">http://www.swftools.org/</a> regarding installation. Some of the Linux distributions already have it in there package manager see <a href="http://packages.debian.org/unstable/utils/swftools">http://www.swftools.org/</a> regarding installation. Some of the Linux distributions already have it in there package manager see <a href="http://packages.debian.org/unstable/utils/swftools">http://packages.debian.org/unstable/utils/swftools</a>), the recommended version of SWFTools is 0.9 as prior version have a bug that does lead to wrong object dimensions in the Whiteboard</li> </ul>
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 (MariaDB):

OpenMeetings
DB configuration
Recommendation for production environment By default OpenMeetings uses the integrated <u>Apache Derby</u> database. For production environment you should consider using <u>MySQL</u> , <u>PostgreSql</u> , <u>IBM DB2</u> , <u>MSSQL</u> or <u>Oracle</u>
NOTE Please use unpredictable DB login and 'strong' password with length 8 characters or more.
Specify the name of the database openmeetings Specify DB user
Specify DB password Check
< >> Finish

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

OpenMeetings		
DB configuration		
Recommendation for production	environment	
By default OpenMeetings uses using <u>MySQL, PostgreSql, IBM</u>	s the integrated <u>Apache Derby</u> database. For production environment you should consider <u>MDB2, MSSQL</u> or <u>Oracle</u>	
	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		
	Check	
		Finish

...will show the data base configuration we made in step 13.

If you've choose any other different name for this, will show equally. Now we must introduce the user name we did for our data base, at the step 10, and his password:

## **Specify DB user** = hola

#### **Specify DB password** = 1a2B3c4D

Please, press **button**, and will go to:

OpenMeetings		
Userdata		
Username		]
Userpass		
EMail		
User Time Zone	Europe/Madrid	
Group(Domains)		
Name		
	L	
		< > >> Finish

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-nameThis user name will have administrator rights.
Userpass	= a-passwordfor the previous user
EMail	= email-adress of the previous user.
User Time Z	<b>Lone</b> = country where is this server
Name	= example-openmeetingsgroup 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.

Allow self-registering (allow_frontend_register)YesSend Email to new registered Users (sendEmailAtRegister)NoNew Users need to verify their EMail (sendEmailWithVerficationCode)NoDefault Rooms of all types will be createdYesDefault Rooms of all types will be createdYesMail-Referer (system_email_addr)noreply@openmeetings.apache.orgSMTP-Server (smtp_server)localhostSMTP-Server roort(default Smtp-Server Port is 25) (smtp_port)25SMTP-Username (email_username)SMTP-Userpass (email_userpass)Enable TLS in Mail Server AuthNoSet inviter's email address as ReplyTo in email invitations (inviter.email.as.replyto)YesDefault LanguageinglésDefault Font for Export [default_export_font]TimesNewRoman	configuration		
(sendEmailAtRegister)NoNew Users need to verify their EMail (sendEmailWithVerficationCode)NoDefault Rooms of all types will be createdYesMail-Referer (system_email_addr)noreply@openmeetings.apache.orgSMTP-Server (smtp_server)localhostSMTP-Server Port(default Smtp-Server Port is 25) (smtp_port)25SMTP-Username (email_username)SMTP-Userpass (email_username)Enable TLS in Mail Server AuthNoSet inviter's email address as ReplyTo in email invitations (inviter.email.as.replyto)YesDefault Languageinglés	Allow self-registering (allow_frontend_register)	Yes	•
(sendEmailWithVerficationCode)NoDefault Rooms of all types will be createdYesMail-Referer (system_email_addr)noreply@openmeetings.apache.orgSMTP-Server (smtp_server)localhostSMTP-Server Port(default Smtp-Server Port is 25) (smtp_port)25SMTP-Username (email_username)SMTP-Userpass (email_userpass)Enable TLS in Mail Server AuthNoSet inviter's email address as ReplyTo in email invitations (inviter.email.as.replyto)YesDefault Languageinglés		No	-
Mail-Referer (system_email_addr)noreply@openmeetings.apache.orgSMTP-Server (smtp_server)localhostSMTP-Server Port(default Smtp-Server Port is 25) (smtp_port)25SMTP-Username (email_username)	New Users need to verify their EMail (sendEmailWithVerficationCode)	No	-
SMTP-Server (smtp_server)       localhost         SMTP-Server Port(default Smtp-Server Port is 25) (smtp_port)       25         SMTP-Username (email_username)       25         SMTP-Userpass (email_userpass)       Image         Enable TLS in Mail Server Auth       No         Set inviter's email address as ReplyTo in email invitations (inviter.email.as.replyto)       Yes         Default Language       inglés	Default Rooms of all types will be created	Yes	•
SMTP-Server Port(default Smtp-Server Port is 25)   SMTP-Username (email_username)   SMTP-Userpass (email_username)   SMTP-Userpass (email_userpass)   Enable TLS in Mail Server Auth   Set inviter's email address as ReplyTo in email   invitations (inviter.email.as.replyto)   Default Language	Mail-Referer (system_email_addr)	noreply@openmeetings.apache.org	_
(smtp_port)       25         SMTP-Username (email_username)	SMTP-Server (smtp_server)	localhost	
SMTP-Userpass (email_userpass)         Enable TLS in Mail Server Auth         Set inviter's email address as ReplyTo in email invitations (inviter.email.as.replyto)         Default Language			
Enable TLS in Mail Server Auth   Set inviter's email address as ReplyTo in email   invitations (inviter.email.as.replyto)   Default Language   Inglés	SMTP-Username (email_username)		
Set inviter's email address as ReplyTo in email invitations (inviter.email.as.replyto) Default Language	SMTP-Userpass (email_userpass)		
invitations (inviter.email.as.replyto) Yes	Enable TLS in Mail Server Auth	No	•
		Yes	-
Default Font for Export [default_export_font] TimesNewRoman	Default Language	inglés 🗸	
	Default Font for Export [default_export_font]	TimesNewRoman	·

A valid example to configure the mail server with Gmail, is as follows: (replace **john@gmail.com** with your real Gmail account)

Mail-Refer (system_email_addr)	==	john@gmail.com
SMTP-Server (smtp_server)	==	smtp.gmail.com
SMTP-Server Port (default Smtp-Server Port is 25) (smtp_port)		587
SMTP-Username (email_username)	==	john@gmail.com
SMTP-Userpass (email_userpass)	==	password of john@gmail.com
Enable TLS in Mail Server Auth		Yes

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

**Default Language** 

== english

...the rest we can leave as is.

OpenMeetings		
Converters		
SWFTools Zoom 🕚	100	
SWFTools JPEG Quality 🛛 🖲	85	
SWFTools Path 0		Check
ImageMagick Path 🛛 🕚		Check
FFMPEG Path 📵		Check
SoX Path		Check
OpenOffice/LibreOffice Path for jodconverter 🛛 🚳		Check
see also <u>Installation</u>		
		< >> Finish

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

SWFTools Path (Path)		/usr/bin	
ImageMagick Path (Path)	==	/usr/bin	
FFMPEG Path (Path)	==	/usr/local/bin	
SOX Path (Path)	==	/usr/bin	
OpenOffice/LibreOffice Path (Path) for jodconverter		/usr/lib/libreoffice /usr/lib64/libreoffice	(32bits) (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:

урt Туре	
Crypt Class	org.apache.openmeetings.util.crypt.SHA
You can use this default crypt type w using: <b>org.apache.openmeetings.ut</b> see: <u>Custom Crypt Mechanism</u> You anymore	nich is equal to PHP-MD5 function or BSD-Style encryption by tils.cryptMD5CryptImplementation for more information or to write your own Crypt-S can edit this value later BUT previous created Users and Sessions might be not usab
d5SIP Configuration	
Enable SIP	No 🗸
Enable red5SIP integration	
SIP rooms prefix	400
Prefix for phone number of conferen	ice rooms
	rooms
SIP extensions context	
SIP extensions context Context of Asterisk extensions	

Now push the button > Will show this window:

OpenMeetings	
Please click "Finish" button to start installation!	
	< > >> Finish

Push 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 <u>Enter the Application</u>. First is need it to restart the server (be connected to Internet):

/etc/init.d/red5-2 restart

OpenMeetings
Enter the Application
Database was changed, please restart application to avoid possible issues
If your Red5-Server runs on a different Port or on a different domain alter the config values of the client
Mailing list
http://openmeetings.apache.org/mail-lists.html
There are some companies that also offer commercial support for Apache OpenMeetings:
http://openmeetings.apache.org/commercial-support.html
>>   Finish

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	
Forgotten your password?	□ Remember login <u>Network testing</u>
	Not a member? 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 from Internet.

# 16) ------ Configuration of OpenMeetings ------

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

# Administration $\rightarrow$ Configuration

Home 👻	Rooms -	Recordings 🗸	Administration -
▽ Welcome			<b>•</b>
2	<b>Hello firstname</b> Timezone Europe/M Unread messages <u>0</u>	adrid	
Upload new image	Edit your profile		
Help and support			

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

I I I 2 I ≥ II I Search
≎ID ≎Key ≎Value Config
allow.oauth.register 1
default_group_id 1
smtp_server localhost
smtp_port 25
system_email_addr noreply@openmeetings.apache.or Up
email_username
email_userpass
mail.smtp.starttis.ena <sub>0</sub>
mail.smtp.connection. timeout
mail.smtp.timeout 30000
application.name OpenMeetings
default_lang_id 1
swftools_zoom 100
swftools_jpegquality 85
swftools_path
imagemagick_path
sox_path
ffmpeg_path
office.path

And this is all.

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

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

-----



Thank you.

Alvaro Bustos