

Installation of Apache OpenMeetings 4.0.6 on Slackware 14.2

slackware64-14.2-install-dvd.iso

This tutorial is bassed in a fresh installation of Slackware 14.2.

It is tested with positive result. We will use the Apache's binary version OpenMeetings 4.0.6 stable, that is to say will suppress his compilation. It is done step by step.

15-10-2018

Starting
1)
Update the OS:
slackpkg update
slackpkg upgrade-all
and install some packages and libraries:

(Only one line with a space between both)

slackpkg install nano make libtool bison ghostscript freetype gcc ncurses make bzip2 wget git automake curl autoconf automake cmake mercurial

```
2)
                                 ----- Installation of Slpkg -----
Slpkg is a user-friendly package manager for Slackware installations. Resolves dependencies.
We download and install it:
cd /opt
wget https://github.com/dslackw/slpkg/releases/download/v3.3.4/slpkg-3.3.4-x86 64-1 dsw.txz
upgradepkg --install-new slpkg-3.3.4-x86 64-1 dsw.txz
Configure his repositories uncommenting some ones:
nano /etc/slpkg/repositories.conf
sbo
slack
alien
msb\{1.18\}
              ...this is for Mate desktop.
...press Ctrl+x, will ask to save, press Y and Enter to exit.
Update it:
slpkg update
3)
                    ----- Installation of OpenJava 1.8 and Icedtea-web -----
OpenMeetings need Java to work. Download and install OpenJava 1.8:
cd /opt
slpkg -s alien openidk
...will ask:
Would you like to continue [y/N]? ...press Y and Enter
Install Icedtea-web to access recordings and share desktop in OpenMeetings room:
slpkg -s alien icedtea-web
...will ask:
Would you like to continue [y/N]? ...press Y and Enter
```

nano /etc/profile ...and at bottom file type or copy and paste the green text: JAVA HOME="/usr/lib64/java" CLASSPATH="." PATH="\$PATH:/usr/lib64/java/bin" export JAVA HOME export CLASSPATH export PATH ...press Ctrl+x, will ask to save, press Y and Enter to exit nano. To take effect inmediatily this change, run the following command: source /etc/profile 4) ----- Installation of LibreOffice -----LibreOffice is need it to convert the uploaded office files to pdf. We install it: slpkg -s alien libreoffice ...will ask: Would you like to continue [y/N]? ...press Y and Enter 5) ----- Instalación de Adobe Flash Player -----Adobe Flash Player, even is need it for webcam and sound in the OpenMeetings rooms. For Firefox: slpkg -s alien flashplayer-plugin For Chromium: slpkg -s alien chromium-pepperflash-plugin

Now configure Java Environment JAVA HOME:

6) Installation of ImageMariely v. Sav		
Installation of ImageMagick y Sox		
ImageMagick, work image files like png, jpg, gif, etc. We install it:		
slackpkg install imagemagick		
Sox, work the sound. We install it:		
slackpkg install sox		
7)		
Compilation and installation of FFmpeg		
FFmpeg work the video. To compile and install it, i've based at this url, with some modifications and updated to 15-10-2018:		
https://trac.ffmpeg.org/wiki/CompilationGuide/Centos		
Download the script that will compile and install ffmpeg:		
cd /opt		
wget https://cwiki.apache.org/confluence/download/attachments/27838216/ffmpeg-slackware.sh		
concede execution permission:		
chmod +x ffmpeg-slackware.sh		
enmod (A milpeg-stackware.sii		
and run it (be connected to Internet):		
./ffmpeg-slackware.sh		
Timpeg stackware.sii		
Will spend about 25 minutes. When finish will anounce with this text:		
FFmpeg Compilation is Finished!		

FFmpeg will be installed in: /usr/local/bin.

```
8)
                                 ----- Installation of MariaDB -----
We'll install the MariaDB data server::
slackpkg install mariadb
...create a data base need it for MariaDB can run for first time:
mysql install db --user=mysql
Do owner to mysql:
chown -R mysql:mysql/var/lib/mysql
...concede execution permission to rc.mysqld:
chmod 755 /etc/rc.d/rc.mysqld
...and make a link to mysql.server to run MariaDB:
cd /usr/share/mysql
cp mysql.server /etc/init.d/mysql
....concede execution permission:
chmod +x /etc/init.d/mysql
Edit and comment out one line, so the 3306 port will be accesible to OpenMeetings:
nano /etc/rc.d/rc.mysqld
...and comment out:
SKIP="--skip-networking"
...must be so:
# SKIP="--skip-networking"
...press Ctrl+x, will ask to save, press Y and Enter to exit nano.
Run MariaDB:
```

/etc/init.d/mysql start

Now give a MariaDB root password. Please, change a-password by other you like it:

mysqladmin -u root password a-password

9) ----- Make a data base for OpenMeetings -----

Make a data base for OpenMeetings:

mysql -p -u root

...will ask for the password you just choose:

MariaDB [(none)] > CREATE DATABASE open406 DEFAULT CHARACTER SET 'utf8';

(Only one line with space between both))

MariaDB [(none)]> GRANT ALL PRIVILEGES ON open406.* TO 'hola'@'localhost' IDENTIFIED BY '1a2B3c4D' WITH GRANT OPTION;

...and exit MariaDB:

MariaDB [(none)]> quit

- * open406 is the name of the data base
- * hola is the user name of this data base
- * 1a2B3c4D is the password of of this user

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

Now is need it reboot the machine to take effect the changes we made in the Java Environment configuration. Stop MariaDB:

/etc/init.d/mysql stop

...and reboot. When comeback follow at the step 10:

reboot

10) ----- Installation of red5-OpenMeetings -----

```
We'ill install OpenMeetings 4.0.6 stable release.
Make a folder called red5406 where to download the OpenMeetings file and will install it:
mkdir /opt/red5406
cd/opt/red5406
wget http://archive.apache.org/dist/openmeetings/4.0.6/bin/apache-openmeetings-4.0.6.zip
unzip apache-openmeetings-4.0.6.zip
mv apache-openmeetings-4.0.6.zip/opt
11)
                   ----- Connector between OpenMeetings and MariaDB -----
This file-driver is need it to connect OpenMeetings to MariaDB. Download and install it::
cd /opt
                             (Only one line without space between both)
wget http://repo1.maven.org/maven2/mysql/mysql-connector-java/5.1.46/mysql-connector-java-
5.1.46.jar
cp mysql-connector-java-5.1.46.jar /opt/red5406/webapps/openmeetings/WEB-INF/lib
12)
                          ----- Script to run red5-OpenMeetings -----
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 any other different path to /opt/red5406, please edit the script and modify the line:

RED5_HOME=/opt/red5406 ...a

RED5 HOME=/your-path-installation

13)

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

Run MariaDB:

/etc/init.d/mysql start

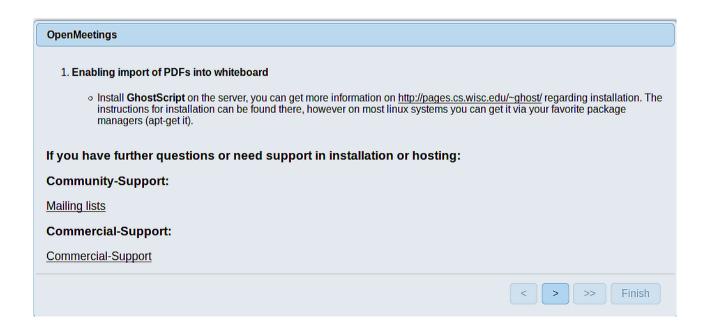
...and now run red5-OpenMeetings:

/etc/init.d/red5-2 start

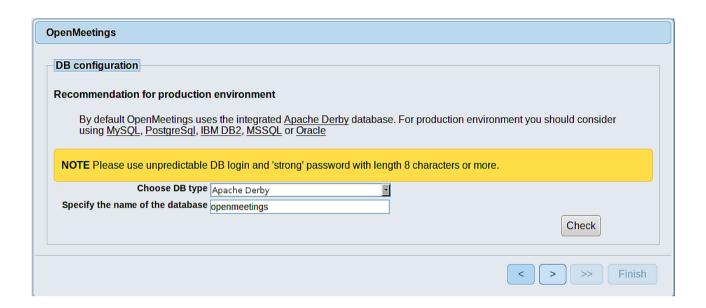
...wait about 40 seconds in order red5 can run completly. Then, go to:

http://localhost:5080/openmeetings/install

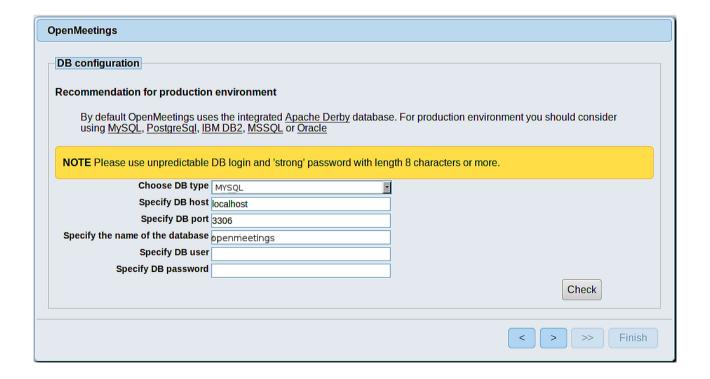
...there will show a page similar to this one:



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



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



...here we must introduce the data base name, user name and his password that we gives in step 9:

Specify the name of the database = open406

Specify DB user = hola

Specify DB password = 1a2B3c4D

If you had choose differents data, please introduce it here:

Press th button and will take us to:



Now, 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 name will have administrator rights

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

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 MailServer Auth = ...turn green the button to activate

Default Language = ...select your language

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

Please press the button > and a new page will appear:



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

ImageMagick Path == /usr/bin

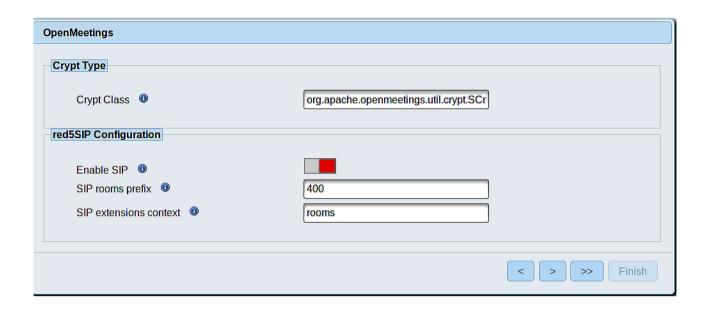
FFMPEG Path == /usr/local/bin

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 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:



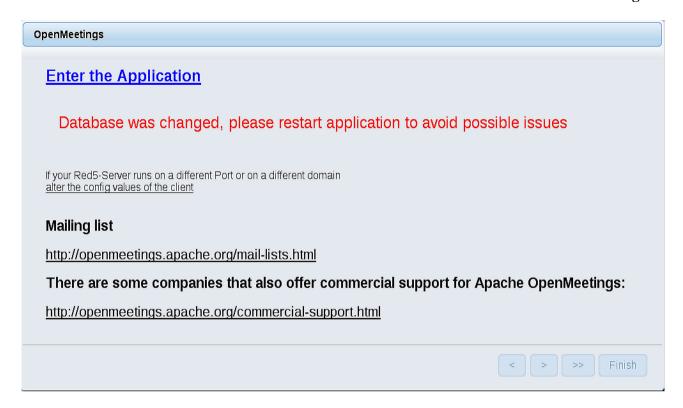
Press the button and will show this window:



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 **Enter the Application**. First is need it to restart the server:

/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:



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:

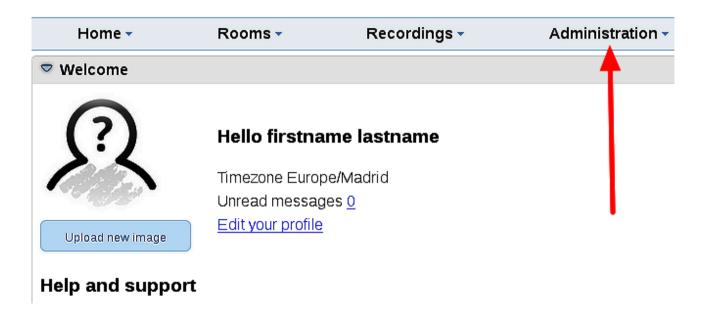
1935 5080

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

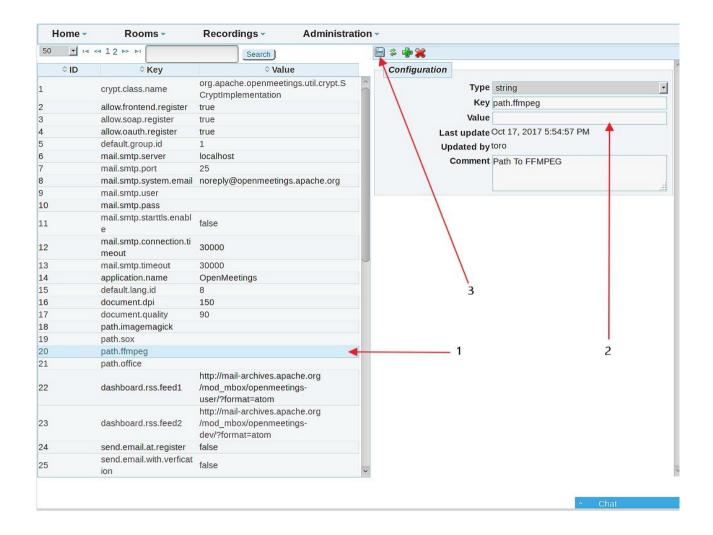
14) ----- Configuration of OpenMeetings -----

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

$Administration \rightarrow Configuration$



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



15) ------ Ghostscript compilation and modify ImageMagick ------

By a script we should compile Ghostscript 9.25, free of security hole:

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 -R /opt/ghostscript-9.25

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

nano /etc/ImageMagick-6/policy.xml

...and comment out the two follow lines, near to bottom file:

```
<policy domain="coder" rights="none" pattern="PS" />
<policy domain="coder" rights="none" pattern="PDF" />
...to:
```

```
<!-- <policy domain="coder" rights="none" pattern="PS" /> --> <!-- <policy domain="coder" rights="none" pattern="PDF" /> -->
```

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 the system-ImageMagick.

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