

#### Installation of Apache OpenMeetings 4.0.8 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 4.0.8 stable, that is to say will suppress his compilation. It is done step by step.

8-3-2019

1)		 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

Starting...

...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 4.0.8 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-alternativesconfig 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					
<b>ImageMagic,</b> 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 and audio. On Devuan 2 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 and Ghostscript-----

**FFmpeg** will work with video. This compilation is based on:

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

Updated files to 8-3-2019. 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!

By a script we should compile Ghostscript 9.26, free of security hole:

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-9.26

7) ----- Installation and configuration of MariaDB data server -----

**MariaDB** is the data server. Will install it. (Version 10.x):

21140	ant ant	imate 11	manufadle comron
sudo	api-gei	mstan	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 choosen, type it...

MariaDB [(none)]> CREATE DATABASE open408 DEFAULT CHARACTER SET 'utf8';

With this command we has created a database called open408. 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 open408.\* TO 'hola'@'localhost' IDENTIFIED BY 'la2B3c4D' WITH GRANT OPTION;

- \* open408 .....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 exit MariaDB:

MariaDB [(none)]> quit

8)

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

We'll install OpenMeetings in /opt/red5408. All the following information will be based on this directory.

Make the folder:

mkdir /opt/red5408

```
cd/opt/red5408
...and download the red5-OpenMeetings file:
wget http://archive.apache.org/dist/openmeetings/4.0.8/bin/apache-openmeetings-4.0.8.zip
unzip apache-openmeetings-4.0.8.zip
...save the unloaded file to /opt:
mv apache-openmeetings-4.0.8.zip /opt
Do to nobody owner of the whole OpenMeetings folder installation, by security:
chown -R nobody /opt/red5408
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/5.1.47/mysql-connector-java-
5.1.47.jar
...and copy it to where must be:
cp/opt/mysql-connector-java-5.1.47.jar/opt/red5408/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
```

# ----- 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:

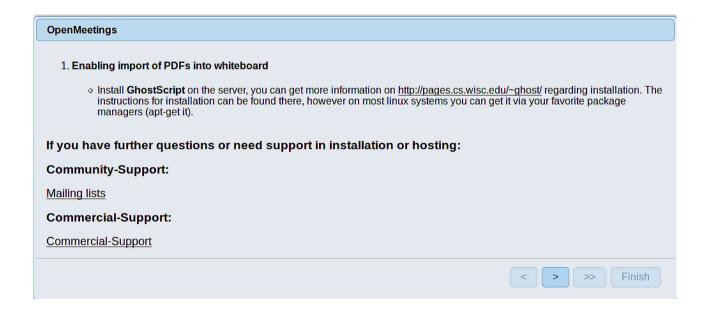
start-stop-daemon: --start needs --exec or --startas Try 'start-stop-daemon --help' for more information.

...you do nothing. Don't worry, everything work right,

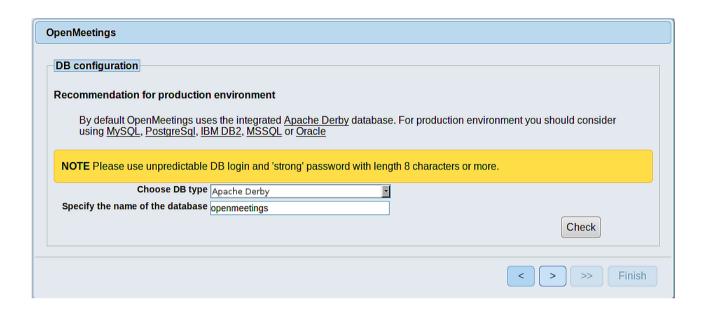
...wait 40 seconds at least, in order that red5 it is runing completely. And after this, can go to:

#### http://localhost:5080/openmeetings/install

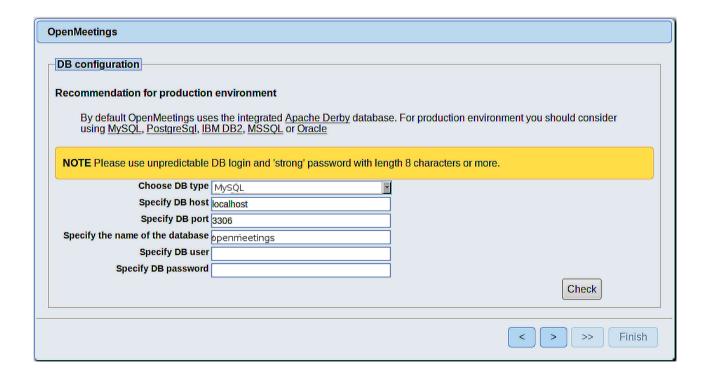
...there will appear a page similar to this one:



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



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



Here we must introduce the database name, user name and his password we did at the step 7:

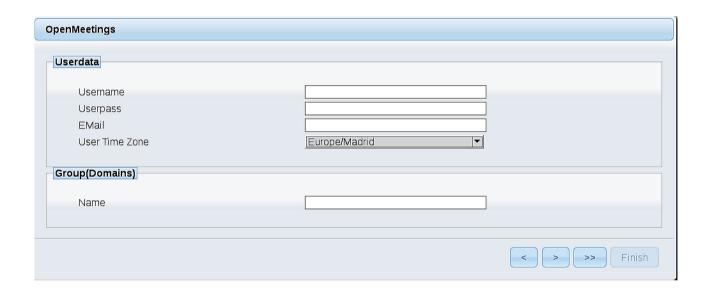
Specify the name of the database = open408

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.

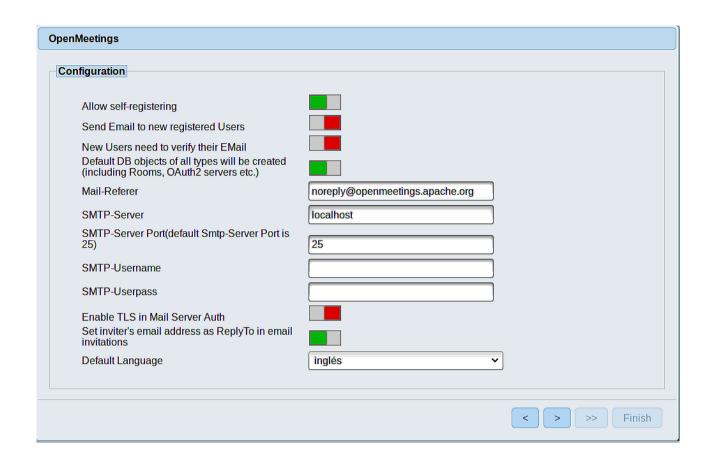
**Userpass** = password ...for the previous user.

**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:

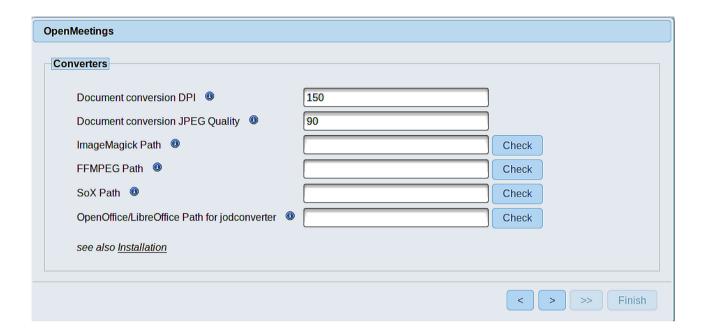


A valid example to configure the mail server with Gmail, is as follows: (replace **john@gmail.com** with your real Gmail account)

Mail-R	efer	==	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 Au	uth	==	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:



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

```
ImageMagick Path == /usr/bin

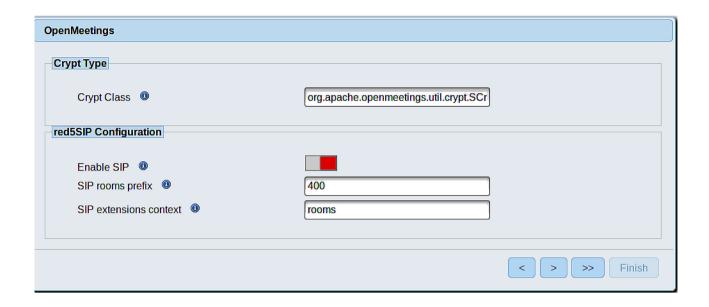
FFMPEG Path == /usr/local/bin

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:

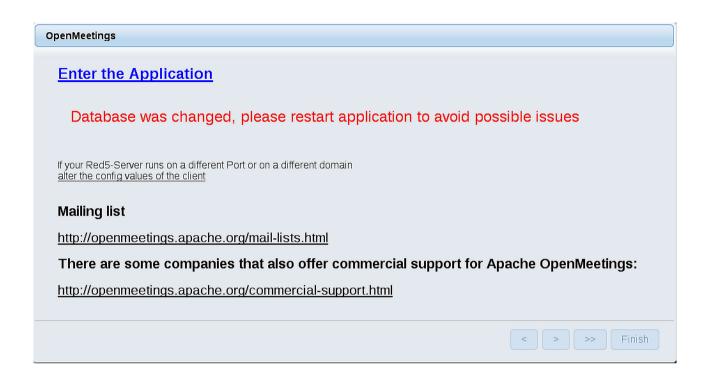


Now push the button and will show this window:



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:



Introduce the user's name and the password that you have choosen 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:

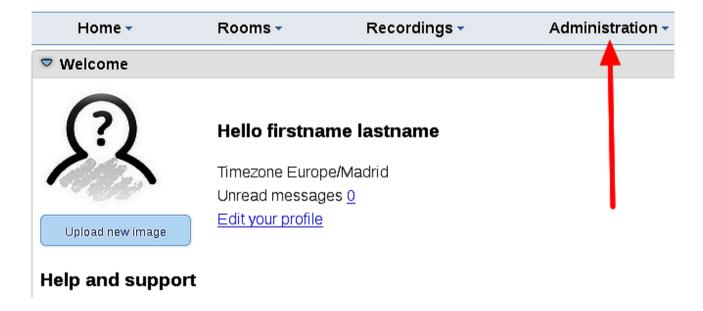
#### 1935 5080

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

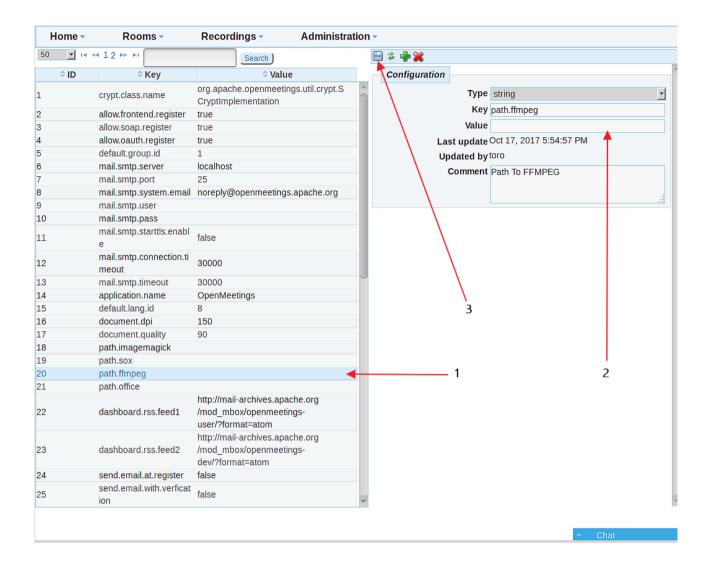
# 11) ----- OpenMeetings's Configuration -----

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

#### **Administration** → **Configuration**



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



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

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



Also you can download if you like, a wallpaper of OpenMeetings for different devices as: PC, Mac, Smartphone, iPhone and Tablets. Here is the link to downoload:

# **Download**

Thank you.

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