Installation of Apache OpenMeetings 4.0.10 on Debian 10

This tutorial is made based on a fresh installations of

debian-live-10.0.0-amd64-mate.iso

It is tested with positive result. We will use the Apache's binary version OpenMeetings 4.0.10 stable, that is to say will suppress his compilation. It is done step by step.

14-12-2019

Starting...

1)

First, we update and upgrade the OS:

sudo apt update

sudo apt upgrade

2)

------ Installation of OpenJava ------

OpenMeetings need Java to work. So, we install OpenJava 11:

sudo apt install openjdk-11-jdk openjdk-11-jdk-headless

...and his plugin for web:

sudo apt install icedtea-netx

Now, please, select OpenJava 11 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-get 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-get 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 Debian 10 is not easy install it from repos. We´ll do almost manually:

cd /opt

mkdir flashplayer

cd flashplayer

<div align="center">(Only one line without space between both)</div>

wget http://slackware.uk/people/alien/slackbuilds/flashplayer-plugin/build/
flash_player_npapi_linux.32.0.0.207.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. We install it:

sudo apt install ffmpeg

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 choosen, type it:

MariaDB [(none)]> CREATE DATABASE open4010 DEFAULT CHARACTER SET 'utf8';

With this command we has created a database called open4010.

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 open4010.* TO 'hola'@'localhost' IDENTIFIED BY '1a2B3c4D' WITH GRANT OPTION;

       * open4010 ......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/red54010. All the following information will be based on this directory.

Make the folder:

mkdir /opt/red54010

cd /opt/red54010

...and download the red5-OpenMeetings file:

wget http://archive.apache.org/dist/openmeetings/4.0.10/bin/apache-openmeetings-4.0.10.tar.gz

tar xzvf apache-openmeetings-4.0.10.tar.gz

...save the unloaded file to /opt:

mv apache-openmeetings-4.0.10.tar.gz /opt

Do to **nobody** owner of the whole OpenMeetings folder installation, by security:

chown -R nobody /opt/red54010

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/5.1.48/mysql-connector-java-5.1.48.jar

...and copy it to where must be:

cp /opt/mysql-connector-java-5.1.48.jar /opt/red54010/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/red5-2

...copy it to:

cp red5-2 /etc/init.d/

...and concede permission of execution:

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

10)

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

Start MariaDB, if still it is not:

/etc/init.d/mysql start
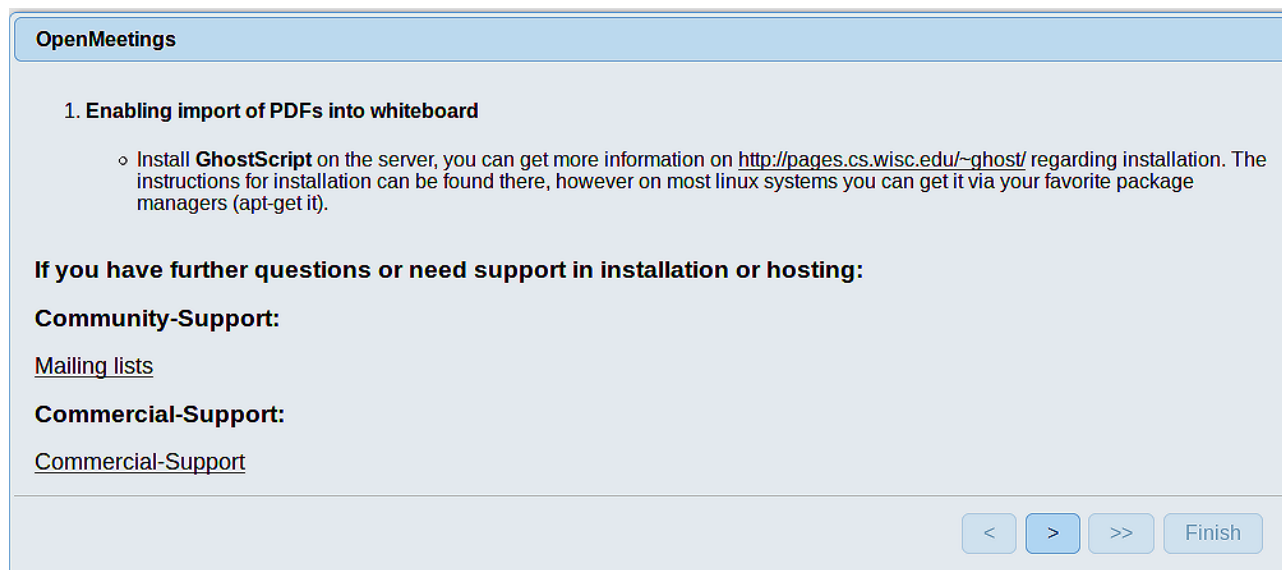
...and now start red5-OpenMeetings:

/etc/init.d/red5-2 start

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

http://localhost:5080/openmeetings

...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 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:
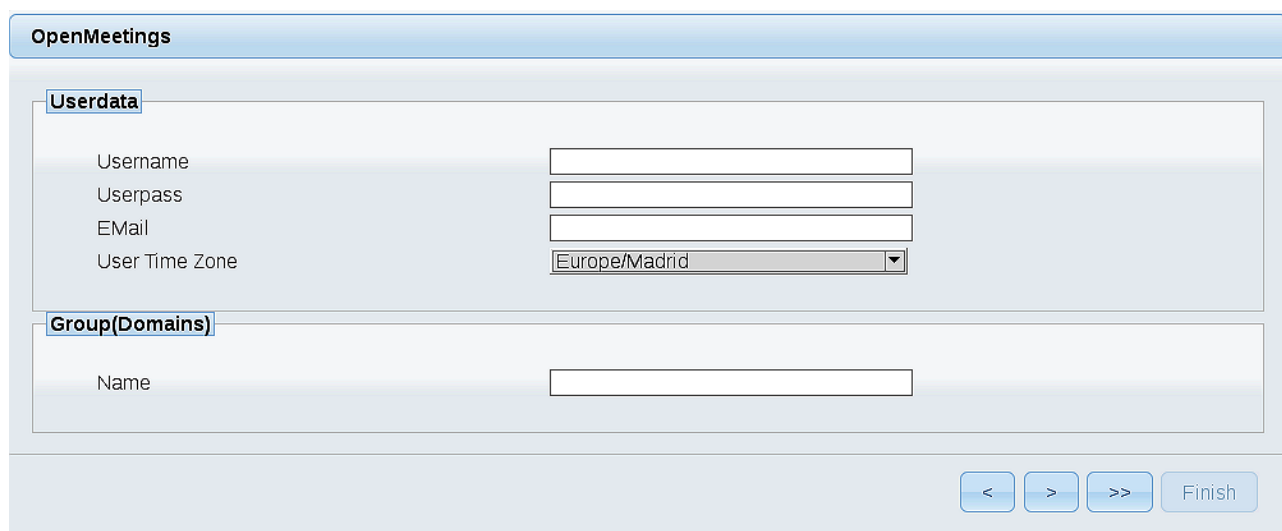
Specify the name of the database   =   open4010

Specify DB user   =   hola

Specify DB password   =   1a2B3c4D

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

Press   >   button, and will go to:

OpenMeetings		
Userdata		
Username		
Userpass		
EMail		
User Time Zone	Europe/Madrid	
Group(Domains)		
Name		

        <   >   >>   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-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)

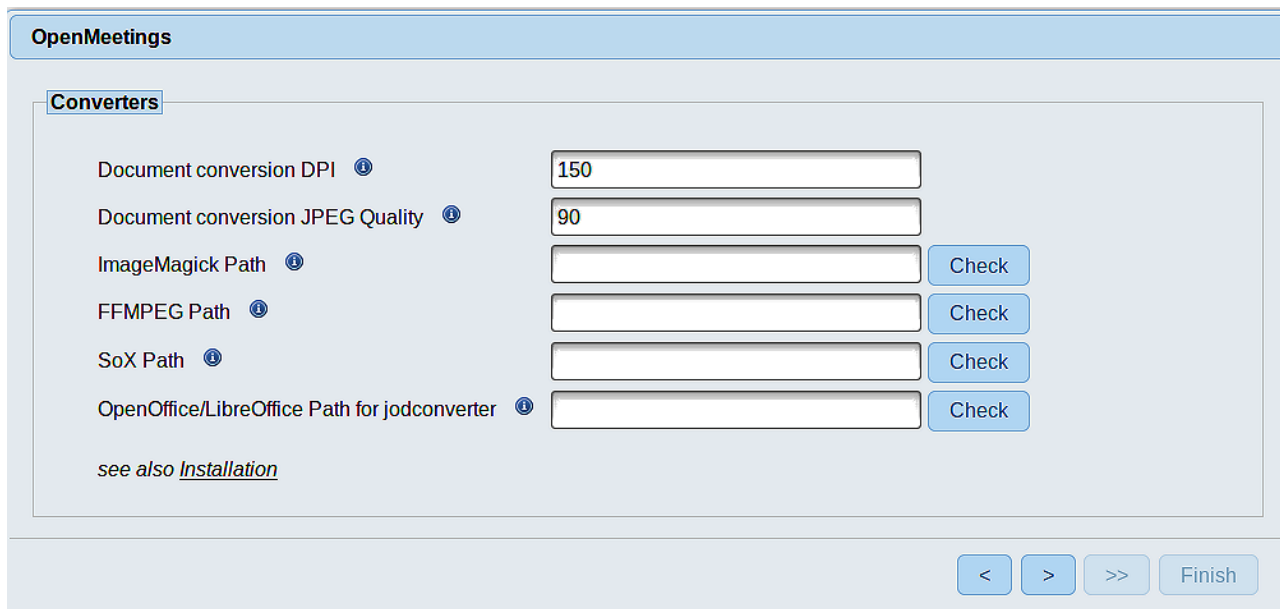|		
Mail-Refer	==	john@gmail.com
SMTP-Server	==	smtp.gmail.com
SMTP-Server Port (default Smtp-Server Port is 25)	==	587
SMTP-Username	==	john@gmail.com
SMTP-Userpass	==	password of john@gmail.com
Enable TLS in Mail Server Auth	==	...turn green the button to activate

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

Default Language	==	...select your language

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

Now press the button [>] and a new page will appear:

OpenMeetings	
Converters	
Document conversion DPI ⓘ	150
Document conversion JPEG Quality ⓘ	90
ImageMagick Path ⓘ	[ ] Check
FFMPEG Path ⓘ	[ ] Check
SoX Path ⓘ	[ ] Check
OpenOffice/LibreOffice Path for jodconverter ⓘ	[ ] Check
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/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:
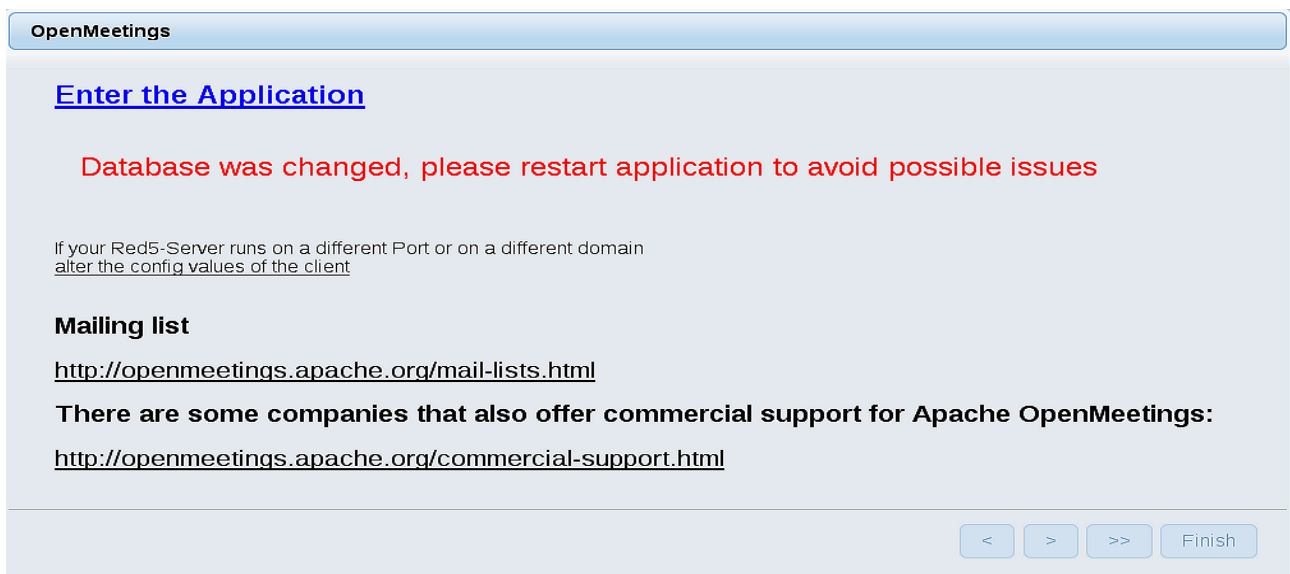
OpenMeetings

Crypt Type

Crypt Class ⓘ   org.apache.openmeetings.util.crypt.SCr

red5SIP Configuration

Enable SIP ⓘ

SIP rooms prefix ⓘ   400

SIP extensions context ⓘ   rooms

     <   >   >>   Finish

Now push the button   >   and 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, 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:

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:

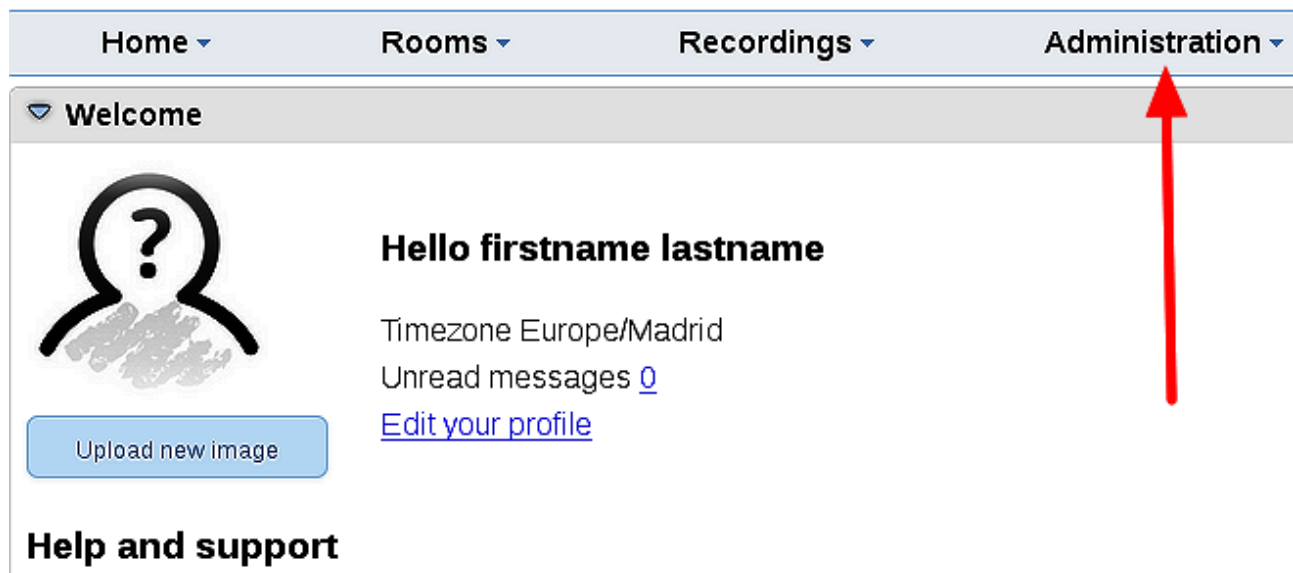Remember to open in the server the two following ports:

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/mailing-lists.html

Also you can download if you like, a wallpaper of OpenMeetings for different devices such as:

PC, Mac, Smartphone, iPhone and Tablets. Here is the link to download:

OpenMeetings Wallpaper Download

A dvd live iso with OpenMeetings 4.0.10 on Ubuntu 18.04 lts is at your disposal.

Can find it here:

[Live iso download](#)

Thank you.

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