

Installation of Apache OpenMeetings 4.0.10 on openSUSE Leap 15.1

This tutorial is made based on fresh installations of

openSUSE-Leap-15.1-DVD-x86 64.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)	Update Operative System
Update operative system:	
zypper refresh	
zypper update	
2)	Installation of Java and Icedtea-web

Java it is necessary to work OpenMeetings 4.0.10. So, we install OpenJava 11:

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Also we must install Icedtea-web can recording and share desktop from OpenMeetings:

zypper install -y icedtea-web update-alternatives

Now we'll see if is installed more than one java version. If it is, then select our OpenJava 11:

update-alternatives --config java

...and to see the active version:

java -version

3) ----- Installation of LibreOffice -----

OpenMeetings need LibreOffice to convert to pdf, the uploaded office files.

Maybe it is installed, but for iso server specially:

zypper install -y libreoffice

4) ----- Installation of necessary packages and libraries -----

We install packages and libraries that we'll need later:

(Only one line with space between both)

zypper install -y gcc ghostscript unzip freetype freetype-devel ncurses ncurses-devel make libz1 zlib-devel libtool bzip2 file-roller git autoconf automake pkg-config nmap nano

5) ----- Installation ImageMagick and Sox -----

ImageMagick, will work with images files jpg, png, gif, etc. We install it and some librarie:

zypper install -y ImageMagick giflib-devel

We modify ImageMagick, so OpenMeetings can upload office files to whiteboard: nano /etc/ImageMagick-7/policy.xml ...and comment out the two follow lines near to bottom file: <policy domain="coder" rights="write" pattern="PS" /> <policy domain="coder" rights="write" pattern="PDF" /> ...to: <!-- <policy domain="coder" rights="write" pattern="PS" /> --> <!-- <policy domain="coder" rights="write" 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 ImageMagick. **Sox,** work the sound. Install it: zypper install -y sox **6**) ----- Installation of Adobe Flash Player -----OpenMeetings even need Adobe Flash Player for cam and audio. Add Adobe repo and install it: zypper ar --check --refresh http://linuxdownload.adobe.com/linux/x86 64/ adobe zypper se -s -r adobe ...willa ask if you wish continue, answere yes. (Only one line without space between both) sudor pm -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

7)
----- Compilation of FFmpeg and installation of packman repo -----

...press **Enter** when ask.

zypper install flash-plugin

FFmpeg work the video. We install Packman repository to can install somes libraries:

(Only one line with space between both)

zypper ar -f -n packman http://ftp.gwdg.de/pub/linux/misc/packman/suse/openSUSE_Leap_15.1/repo packman

zypper update ...when ask, accept for allways typing the letter a and pressing Enter

(Only one line witht space between both)

zypper install -y glibc imlib2 imlib2-devel mercurial cmake freetype2-devel libfreetype6 curl git vlc libogg-devel libtheora-devel libvorbis-devel libvorbis-devel libvorbis-devel libvorbis-devel libvorbis-devel

This ffmpeg compilation is based in this url:

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

I made a script that will download, compile and install ffmpeg. Download the script:

cd /opt

wget https://cwiki.apache.org/confluence/download/attachments/27838216/ffmpeg opensuse15.sh

...concede permission of execution:

chmod +x ffmpeg opensuse15.sh

...and run it, be connected to Internet:

./ffmpeg opensuse15.sh

Will spend about 20 minutes. When finish, will announce it with this text:

FFmpeg Compilation is Finished!

...then, please go to step 8).

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

8)
----- Installation of MariaDB data server -----

MariaDB is the data server.

We install it:

zypper install -y mariadb mariadb-tools

...and run mariadb:

systemctl start mysql.service

Give a password to MariaDB root . Please, modify new-password by 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-mariadb password that we have just chosen:

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

Now we create a user with all permission on this database. User password must be of 8 digits minimum with letter case, numbers or caracters + * % etc:

(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.
```

- * holais the user name for the database.
- * 1a2B3c4D ...is the password of this user.

You can change the data...but remember it! Later we'll need it. Now, we leave MariaDB:

MariaDB [(none)]> quit

9) ----- 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 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
Download and install the connector file 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
10)
                         ----- Script to launch red5-OpenMeetings -----
We'll download the script to 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/
...concede execution permission:
chmod +x /etc/init.d/red5-2
```

If you made the installation in any other different path to /opt/red54010, please edit the script and modify the line:

export RED5_HOME=/opt/red54010
...to
export RED5_HOME=/your-path-installation

11) ------ Run red5-OpenMeetings ------

Restart mariadb, (be connected to Internet):

systemctl restart mysql.service

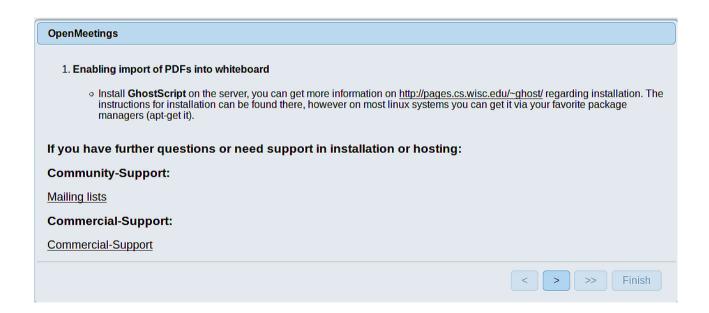
...and run red5-OpenMeetings, please, in a new window terminal (be connected to Internet):

/etc/init.d/red5-2 start

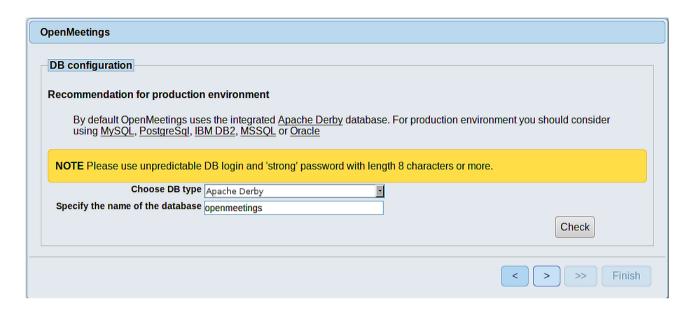
...wait about 40 seconds in order red5 can run completly. Then, go with the browser to:

http://localhost:5080/openmeetings

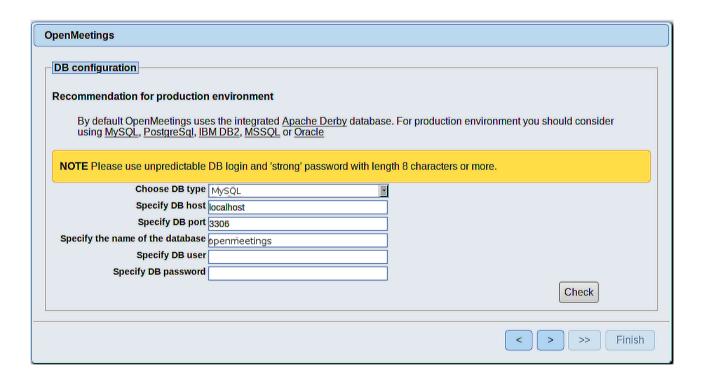
...there will appear a page similar to this one:



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



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



Now we must introduce the database name, user name and his password, we did at the step 8:

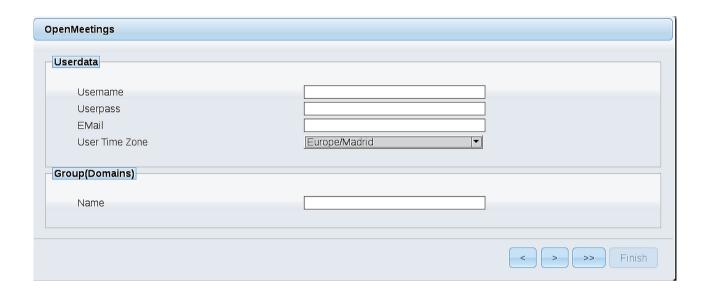
Specify the name of the database = open4010

Specify DB user = hola

Specify DB password = 1a2B3c4D

...if you choose any other data, please type 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.

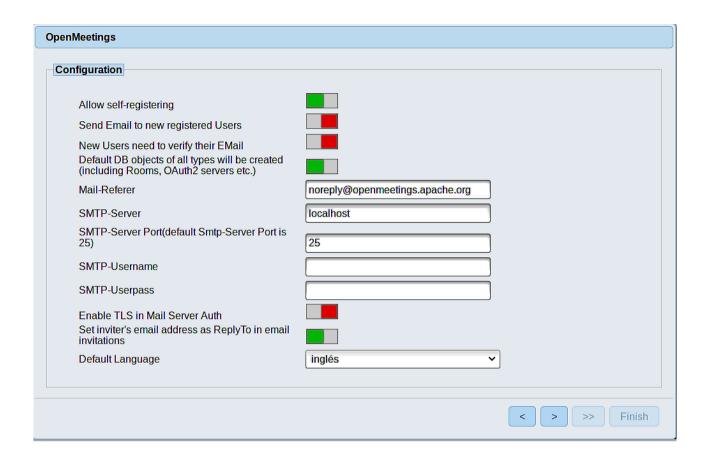
Userpass = a-password ... for the previous user.

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

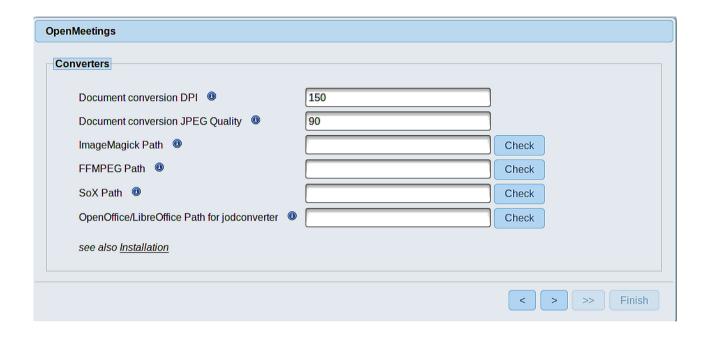
SMTP-Userpass == password of john@gmail.com

Enable TLS in Mail Server Auth = ...turn green the button to activate

Default Language == ...select your language

...the rest can modify 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

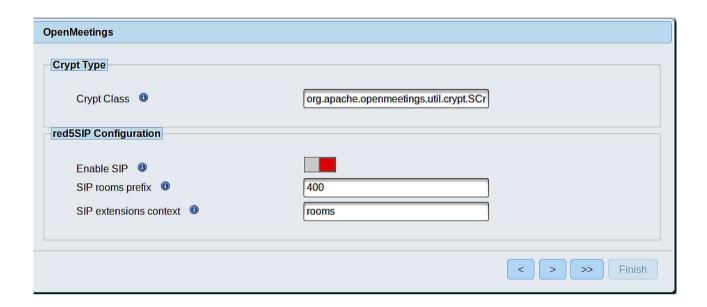
FFMPEG Path == /usr/local/bin

SOX Path == /usr/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.

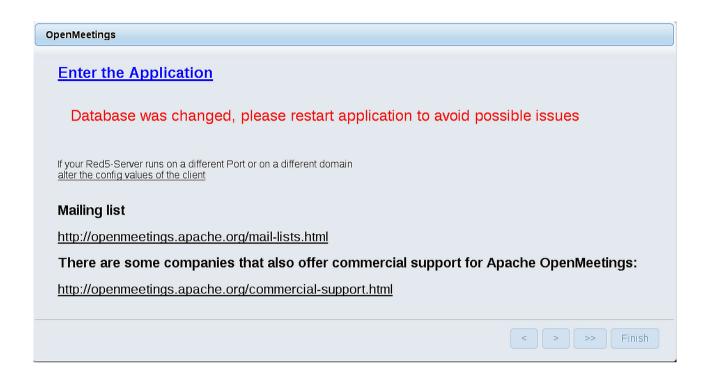
Once completed the paths, please click the button and move on to another page that would be to activate the SIP. We will leave it as is, unless you want to activate it knowing what it does:



Now push the button 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, open a new terminal and restart red5:



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 to accede 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 from Lan or Internet.

12) ----- Installation of libraries and video codecs -----

We'll install some libraries and video codecs for can see rightly the video recordings we'll make at rooms:

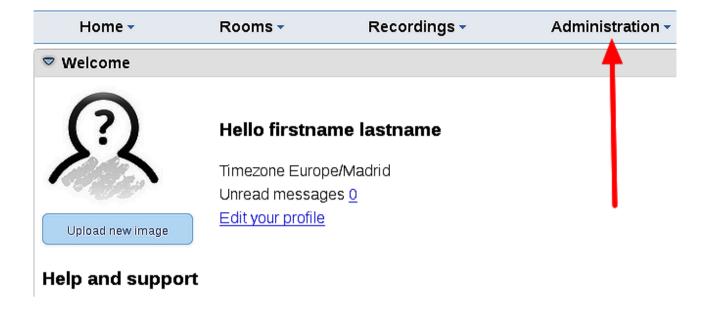
(Only one line with space between each one of them)

zypper install libvidstab1_1-1.1.0-lp151.1.1.x86_64 libvidstab1_1-1.1.0-lp151.1.1.x86_64 libavutil55-3.4.4-lp151.3.3.x86_64 libxvidcore4-1.3.5-lp151.2.2.x86_64 libavresample3-3.4.4-lp151.3.3.x86_64 libswresample2-3.4.4-lp151.3.3.x86_64 libswscale4-3.4.4-lp151.3.3.x86_64 libpostproc54-3.4.4-lp151.3.3.x86_64 libavcodec57-3.4.4-lp151.3.3.x86_64 libavformat57-3.4.4-lp151.3.3.x86_64 libavfilter6-3.4.4-lp151.3.3.x86_64 libavdevice57-3.4.4-lp151.3.3.x86_64

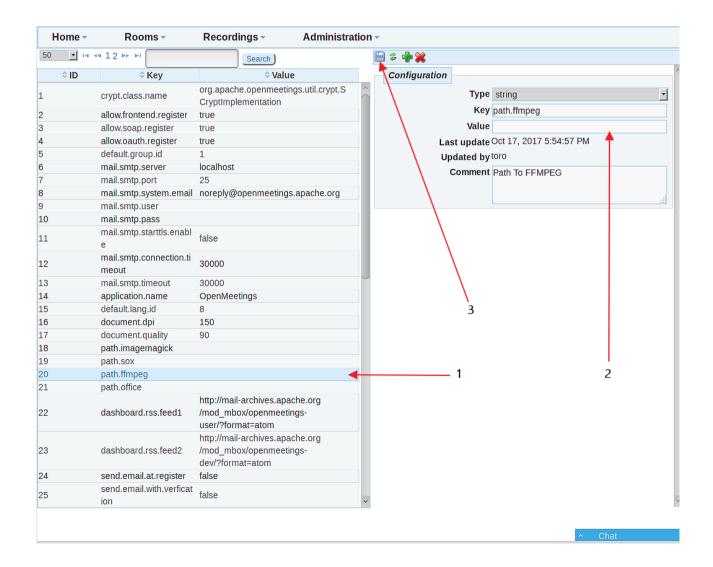
13) ----- OpenMeetings's configuration -----

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:



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 downoload:

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.

Alvaro Bustos (PMC and Committer at Apache OpenMeetings).