

Installation of Apache OpenMeetings 4.0.2 on openSUSE 13.2 64bit

This tutorial is made based on fresh installations of

openSUSE-13.2-KDE-Live-x86_64.iso

It is tested with positive result. We will use the Apache's binary version OpenMeetings 4.0.2 stable, that is to say will suppress his compilation. It is done step by step.

25-2-2018

Starting	
1)	Update Operative System
Update operative system:	
zypper refresh	

zypper update

2)

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

Java 1.8 is need it to work OpenMeetings 4.0.2. So we install Oracle Java 1.8.

cd /opt

Download the file:

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

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/8u161-b12/2f38c3b165be4555a1fa6e98c45e0808/jdk-8u161-linux-x64.rpm

...and install it:

rpm -ivh jdk-8u161-linux-x64.rpm

zypper install update-alternatives

We do to Oracle, the default java system:

update-alternatives --install /usr/bin/java java /usr/java/jdk1.8.0_161/bin/java 1551

update-alternatives --install /usr/bin/javadoc javadoc /usr/java/jdk1.8.0_161/bin/javadoc 1551

update-alternatives --install /usr/bin/jar jar /usr/java/jdk1.8.0_161/bin/jar 1551

update-alternatives --install /usr/bin/javap javap /usr/java/jdk1.8.0_161/bin/javap 1551

update-alternatives --install /usr/bin/javac javac /usr/java/jdk1.8.0_161/bin/javac 1551

update-alternatives --install /usr/bin/javah javah /usr/java/jdk1.8.0_161/bin/javah 1551

update-alternatives --install /usr/bin/jarsigner jarsigner /usr/java/jdk1.8.0_161/bin/jarsigner 1551

Maybe you have installed diferents versions of Java. We select the just installed Oracle Java:

update-alternatives --config java

And to see if the selected version is active:

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:
zypper install -y libreoffice
4) Installation of necessary packages and libraries
We install packages and libraries that 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
Sox, work the sound. Will compile it, 'cause it is newer version than 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
6) Installation of Adobe Flash Player

OpenMeetings even need Adobe Flash Player for cam. Install it:

zypper install -y flash-player

7)

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

FFmpeg work video. Will install paquets and libraries.

zypper install -y glibc imlib2 imlib2-devel mercurial cmake

zypper install -y freetype2-devel libfreetype6 curl git

zypper install -y libogg-devel libtheora-devel libvorbis-devel libvpx-devel

This ffmpeg compilation is based on this url, updated file versions 25-2-2018:

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

The result of any recording we do in OpenMeetings, will be in mp4 format. I made a script that it will download, compile and install ffmpeg.

Download the script:

cd /opt

(Only one line without space between both)

wget https://cwiki.apache.org/confluence/download/attachments/27838216/ffmpeg-opensuse132-64bit.sh

...concede execution permission:

chmod +x ffmpeg-opensuse132-64bit.sh

...and run it. Will spend about 25 minutes in the compilation:

./ffmpeg-opensuse132-64bit.sh

When finished, will announce it:

:

FFMPEG Compilation is Finished!

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

All the compiled files will be installed on: /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 for OpenMeetings:

mysql -u root -p

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

MariaDB [(none)]> CREATE DATABASE open402 DEFAULT CHARACTER SET 'utf8';

With this command we has created a database called open402.

Now we create a 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 open402.* TO 'hola'@'localhost' IDENTIFIED BY 'la2B3c4D' WITH GRANT OPTION;

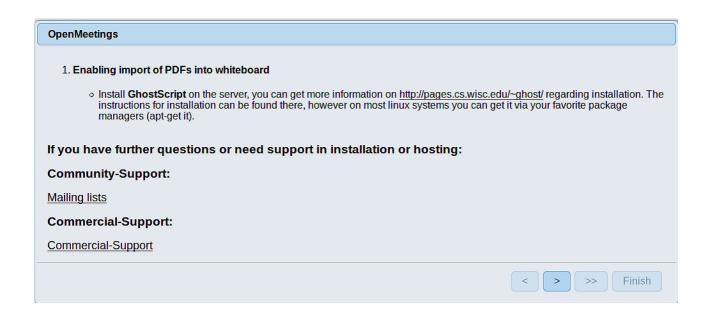
^{*} open402is the database name.

^{*} holais the user name for this database.

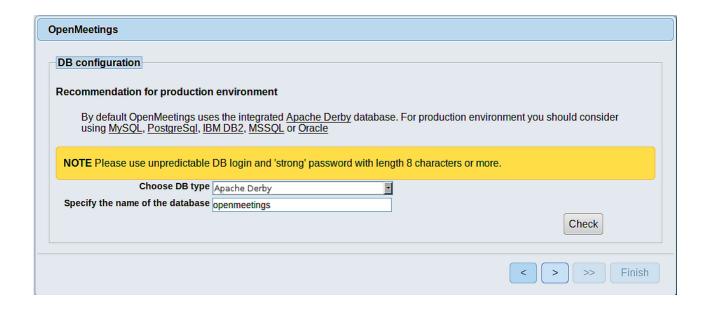
^{* 1}a2B3c4D ..is the password of this user.

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/red5402. All the following information will be based on this directory. Make the folder: mkdir /opt/red5402 cd/opt/red5402 ...and download the OpenMeetings file: wget http://apache.miloslavbrada.cz/openmeetings/4.0.2/bin/apache-openmeetings-4.0.2.zip unzip apache-openmeetings-4.0.2.zip ...save the unloaded file to /opt: mv apache-openmeetings-4.0.2.zip /opt Download and install the file connector between OpenMeetings and MariaDB: cd /opt (Only one line without space between both) wget http://repo1.maven.org/maven2/mysql/mysql-connector-java/5.1.45/mysql-connector-java-5.1.45.jar ...and copy it to where must be: cp/opt/mysql-connector-java-5.1.45.jar/opt/red5402/webapps/openmeetings/WEB-INF/lib 10) ----- Script to launch red5-OpenMeetings -----Please, download the red5 run script:

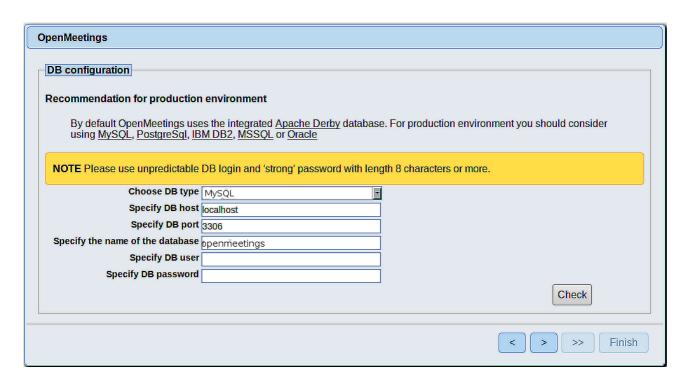
cd /opt
wget https://cwiki.apache.org/confluence/download/attachments/27838216/red5-2
copy it to:
cp red5-2 /etc/init.d/
concede permission of execution:
chmod +x /etc/init.d/red5-2
If you made the installation in any other different path to /opt/red5402, please edit the scrypt and modify the line:
RED5_HOME=/opt/red5402
to
RED5_HOME=/your-path-installation
11) Run red5-OpenMeetings
Restart mariadb (be connected to Internet):
systemetl restart mysql.service
and start red5-OpenMeetings, from a new window terminal, and connected to Internet:
/etc/init.d/red5-2 start
wait about 40 seconds in order red5 can run completly. Then, please go to:
http://localhost:5080/openmeetings/install
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):



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

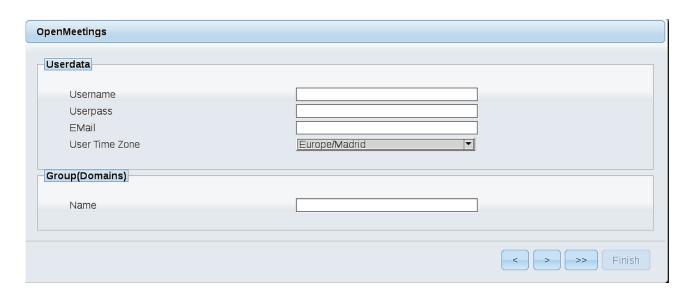


Now we must introduce the database name, user name and his password we did at the step 8:

Specify the name of the database = open402 Specify DB user = hola Specify DB password = 1a2B3c4D

...if you choose any other data, here is where to type it.

Please, press button and will go to this window:



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.

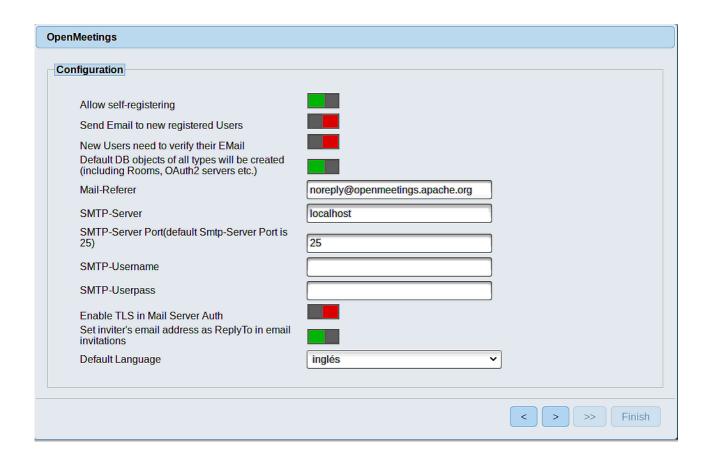
Userpass = a-password ...for the previous user.

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:

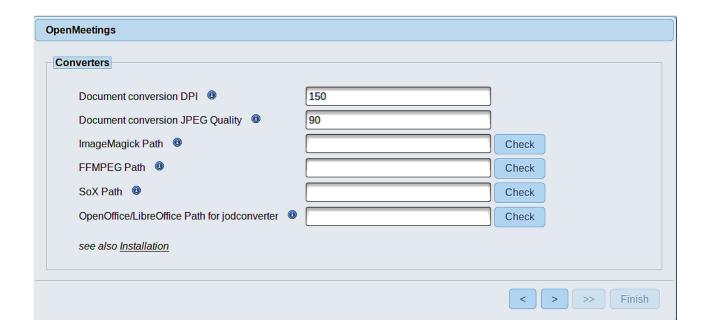


A valid example to configure the mail server with Gmail, is as follows: (replace **john@gmail.com** with your real Gmail account)

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 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 (Path) == /usr/bin

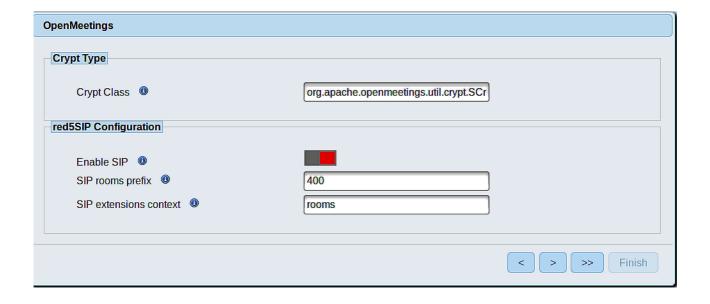
FFMPEG Path (Path) == /usr/local/bin

SOX Path (Path) == /usr/local/bin

OpenOffice/LibreOffice Path (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:



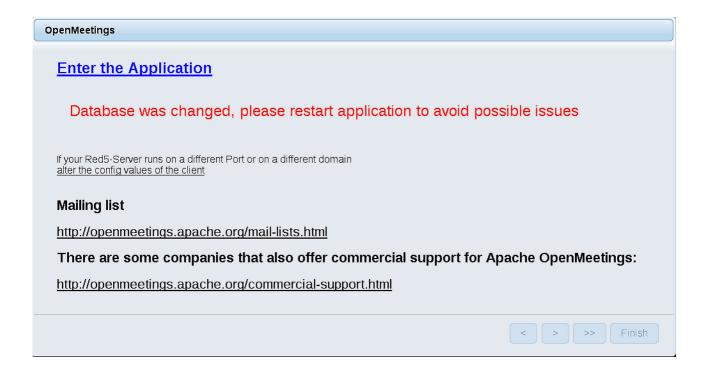
Now push the button Will show this window:



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:

/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 to accede OpenMeetings, would be:

http://localhost:5080/openmeetings

Remember to open in the server, the two following ports:

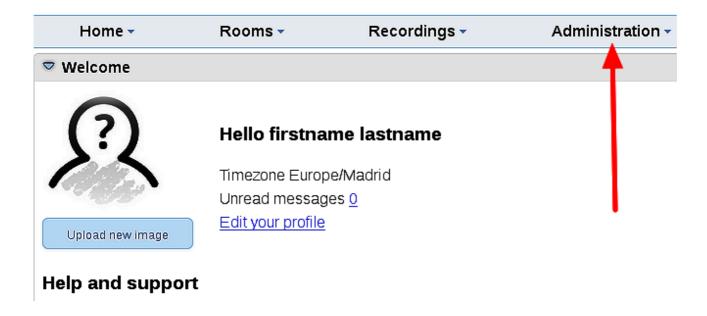
1935 5080

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

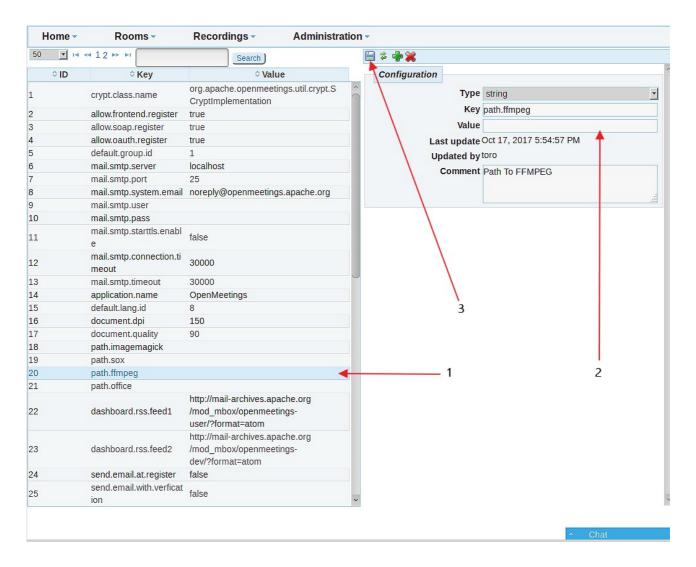
12) ------ OpenMeetings's configuration ------

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:



And this is all.

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

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



Thank you.

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