

Installation of Apache OpenMeetings 4.0.2 on PCLinuxOS 2018 pclinuxos64-MATE-2017.11.iso

This tutorial is made based on fresh installations of PCLinuxOS 2017 Mate.

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 and upgrade the operative system. Please go to:			
apt-get update			
apt-get upgrade			
2) Installation of libraries and packages			

(Only one line with space between each one)

apt-get install -y libjpeg-progs giflib-progs freetype-devel gcc-c++ zlib1-devel libtool bison bison-static-devel file-roller ghostscript freetype unzip gcc ncurses make zlib1 bzip2 wget ghostscript ncurses zlib1 zlib1-devel x264-devel git make automake nasm pavucontrol rpm-installer freetype2 curl

3) ----- Installation of LibreOffice and Java Sun 1.8.x -----

When we install LibreOffice also will install automatically Java sun 1.8.x. OpenMeetings **4.0.2** need java **1.8** to work.

LibreOffice will convert to pdf the uploaded office files. We install it:

lomanager

...if show a message like this: *Please Update your system. (more details...)*....

...then please go to:

Synaptic --> Mark All Upgrades --> Apply --> Apply

...and we type in shell newly:

lomanager

...will show a window where select your locale language for LibreOffice, and after this answer yes or ok to any question.

Will start installing Java sun 1.8.x and continue with LibreOffice. If would not install java, you can do it:

apt-get install java-sun

Once the installation it is finished you can change the LibreOffice language interface in:

Tools --> Options --> Language settings --> Languages --> User interface (select your language) --> OK

LibreOffice (installed or updated 25-2-2018) is in: /opt/libreoffice5.2

4) ----- Installation of Adobe Flash Player -----

Flash player it is installed in Mate already, but not in KDE minimum. So will install it and firefox also, if you like it. Adobe Flash Player even is need it for cam in OpenMeetings:

apt-get install -y firefox flash-player-plugin

5) ----- Installation of ImageMagick and Sox -----ImageMagick, work with image files jpg, png, gif, etc. We install it: apt-get install ImageMagick Sox, work the sound. It is installed, but we'll uninstall it and compile a newer version than it is in the repo: apt-get remove sox ...and download and compile the new version: 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)** ----- Install, remove, rename somes packages -----We'll install lame for mp3 audio: apt-get install lame

We'll remove ffmpeg that automatically was installed in Mate. In KDE minimum was not

but to do it is not bad. Later we'll build our own ffmpeg.

apt-get remove ffmpeg

...will remove automatically vokoscreen also.

Rename x264, that we'll compile later:

mv /usr/bin/x264 /usr/bin/x264-synaptic

...because if we remove x264 will lose automatically too many packages.

Now will block this x264 version in Synaptic and then can't update installing a new version:

Synaptic → click on x264 line → Package (Up left) --> Lock Version

7) ----- Compiling and installing FFmpeg -----

To compile and install ffmpeg, lame, yasm and x264, i've followed a guide with somes modifications. Files updated 16-2-2107:

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

Install a librarie need it for the compilation:

Modify your username to your real user name:

cd /home/your username

...download it:

(Only one line without space between both)

wget http://download.opensuse.org/repositories/home:/ganglia:/musescore2/SLE11/x86_64/libmp3lame-devel-3.99.5-2.1.x86_64.rpm

Please, go to your /home/your username, and (be connected to Internet):

Right clic on the libmp3lame-devel-3.99.5-2.1.x86_64.rpm file --> Open with --> RPM-installer \rightarrow will ask for root password \rightarrow push Enter

The result of any recording we do in OpenMeetings, will be in mp4 format. For compile ffmpeg, i build a scrypt that will download, compile and install it. Download it:

cd /opt

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

...concede perimission of execution:

chmod +x ffmpeg-pclinuxos.sh

...and run it (be connected to Internet):

./ffmpeg-pclinuxos.sh

The compilation spend about 25 minutes. When be finish, will announce it, with this text:

FFmpeg Compilation is Finished!

Block in Synaptic: **ffmpeg** and **yasm** ... one by one:

Synaptic → click on ffmpeg line → Package (up to left) --> Lock Version

...don't worry if look the packages are not installed.

This is very important: When you update or upgrade the operative system, please do it from Synaptic, so will respect the locked versions, thing that will do not if update or upgrade from the shell.

FFmpeg is installed in: /usr/local/bin

8) ----- Installation of MySQL and building database -----

We'll employ MySQL server, for the database.

apt-get install -y mysql

...run mysql:

service mysqld start

...we do a mysql upgrade:

mysql upgrade

...and give a root mysql password remplacing new-password for your own preference, and remember it:

/usr/bin/mysqladmin -u root password new-password

We'll build a database and an user for OpenMeetings. User password must be of 8 digits minimum: mysql -p -u root ...will ask for password (you just made right now) type it and make the database: mysql> CREATE DATABASE open402 DEFAULT CHARACTER SET 'utf8'; (Only one line with space between both) mysql> GRANT ALL PRIVILEGES ON open402.* TO 'hola'@'localhost' IDENTIFIED BY '1a2B3c4D' WITH GRANT OPTION; ...and leave MySQL: mysql> quit * open402 is the data base name is the user name for this data base * 1a2B3c4D is the password for this user You are free to change these names and password, but remember them. Later we'll need it. Now we'll open mysql port 3306, so OpenMeetings can connect with it: For **KDE**: kwrite /etc/my.cnf For **MATE**: pluma /etc/my.cnf ...and the line number 51: skip-networking ...modify so, commented:

service mysqld restart

...and restart mysql:

skip-networking

9) ----- Installation of Apache OpenMeetings -----We'll install the 4.0.2 stable version. We'll make the OpenMeetings installation in /opt/red5402 Make a folder called red5402 where download the Apache OpenMeetings file and where make the installation:. mkdir /opt/red5402 cd/opt/red5402 wget http://apache.miloslavbrada.cz/openmeetings/4.0.2/bin/apache-openmeetings-4.0.2.zip unzip apache-openmeetings-4.0.2.zip mv apache-openmeetings-4.0.2.zip/opt 10) ----- Connector Java MySQL -----This file-driver connect OpenMeetings to MySQL. Download and install it: cd /opt (Only one line without space between both) wget http://repo1.maven.org/maven2/mysql/mysql-connector-java/5.1.45/mysql-connector-java-5.1.45.jar cp mysql-connector-java-5.1.45.jar /opt/red5402/webapps/openmeetings/WEB-INF/lib 11) ----- Script to launch red5-OpenMeetings -----We download the scrypt will run red5-OpenMeetings: cd /opt wget https://cwiki.apache.org/confluence/download/attachments/27838216/red5-2

...copy it to where must be:

	1 = 0	/ .	/• • .	4 1
cr	red5-2	/etc/	1n1f.	d/
•		,	11110.	-

...and concede execution permission:

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

If you made the installation in any other path, edit the scrypt and modify the line:

RED5 HOME=/opt/red5402

...to

RED5 HOME=/your-path-installation

12)

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

Restart MySQL (be connected to Internet):

service mysqld restart

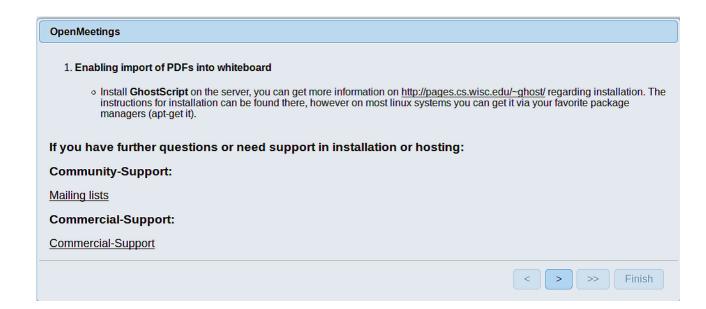
...and start red5-OpenMeetings (be connected to Internet):

/etc/init.d/red5-2 start

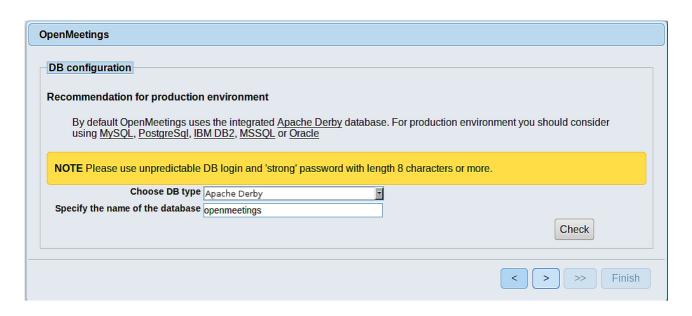
...wait about 40 seconds in order red5 can run completly. Then, go with the browser to:

http://localhost:5080/openmeetings/install

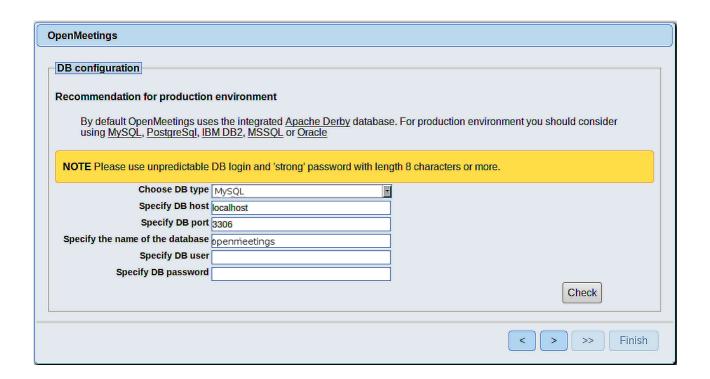
...there will appear a page similar to this one:



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



...so, please 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

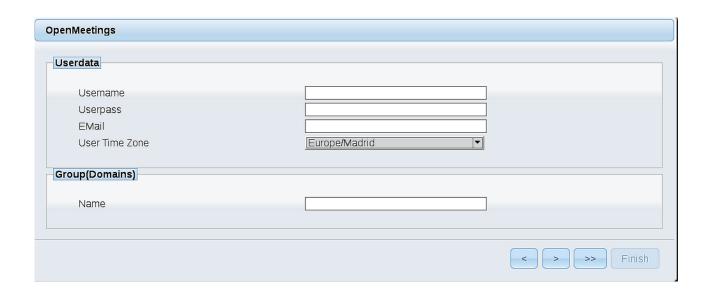
Specify the name of the database = open402

Specify DB user = hola

Specify DB password = 1a2B3c4D

...if you choose a different data, here is where type it.

Please, 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 have administrator rights

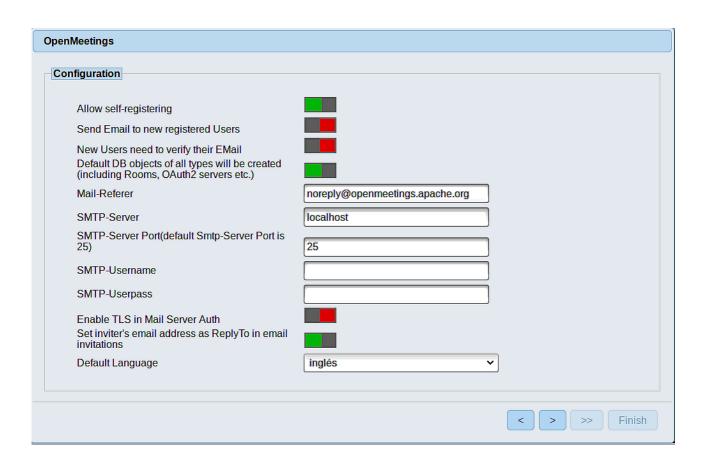
Userpass = a-passwordfor the previous user

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:

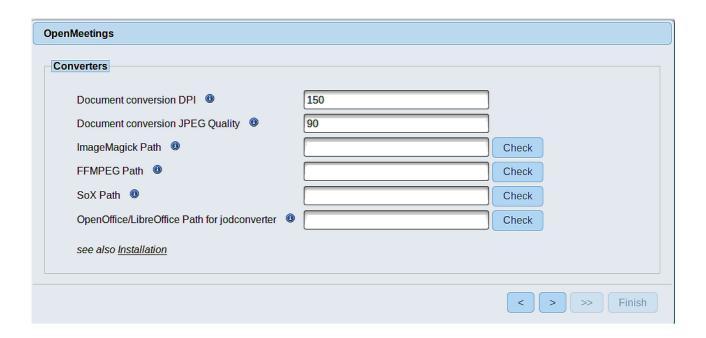


A valid example to configure the mail server with Gmail, is as follows: (replace **john@gmail.com** with your real Gmail account)

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	Mail Server Auth ==turn green the button to activate		
Default Language	==	select your language	

...the rest you 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

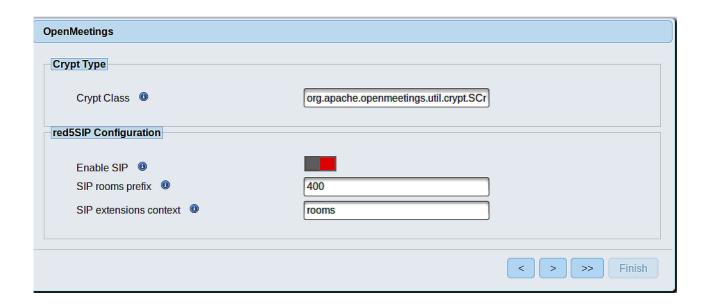
FFMPEG Path == /usr/local/bin

SOX Path == /usr/local/bin

OpenOffice/LibreOffice Path for jodconverter == /opt/libreoffice5.2

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 press 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:



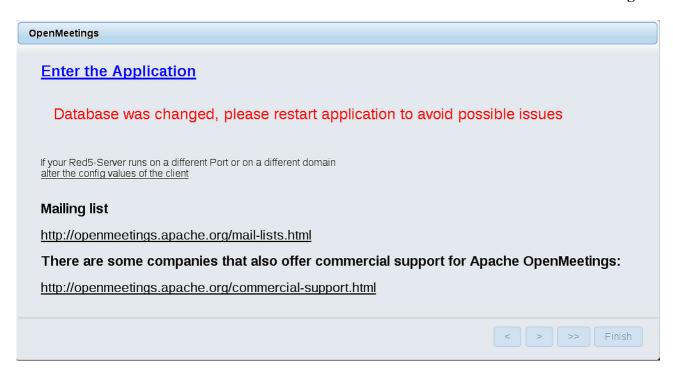
Now push the button | Will show this window:



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 shell window, and run this command (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 chosen during the installation, push **Sign in** button, and...

... Congratulations!

The next time that you like to accede to OpenMeetings will be:

http://localhost:5080/openmeetings

Remember to open in the server the two following ports:

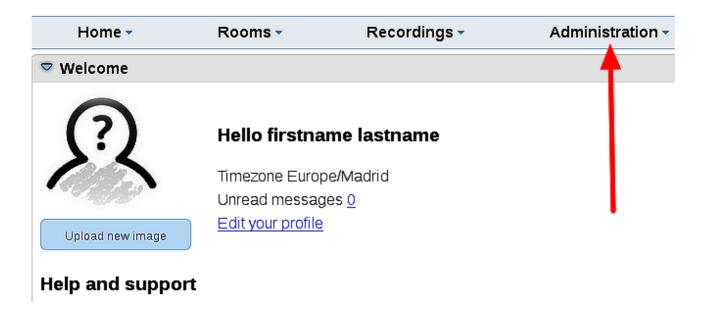
1935 5080

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

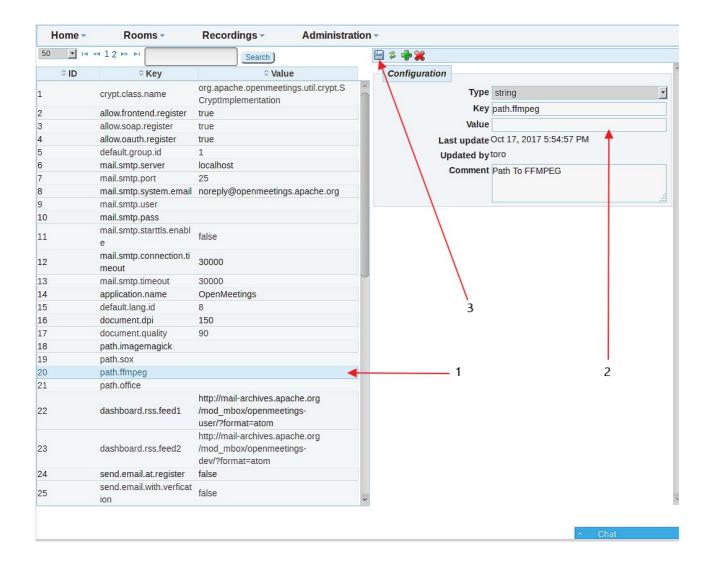
13) ----- Configuration of OpenMeetings -----

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:



And this is all.

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

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



Thank you.

Alvaro Bustos