

Installation of Apache OpenMeetings 4.0.8 on MX Linux 18.1

This tutorial is made based on a fresh installations of

MX-18_x64.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

Starting...

1)

First, we update and upgrade the OS:

sudo apt update

sudo apt upgrade

2)

----- Installation of OpenJava 1.8 -----

OpenMeetings 4.0.8 need Java 1.8 to work. So, we install OpenJava:

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-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 ubuntu desktop iso have already LibreOffice installed.

We do it also for server iso:

sudo apt 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 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

------ Installation of Adobe Flash Player ------

OpenMeetings even need Adobe Flash Player for cam and audio. We install it:

apt install adobe-flashplugin

6)

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

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!

5)

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

MariaDB is the data server. Will install it:

sudo apt 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 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;

- * open408is the database name.
- * holais 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

7)

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

----- 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

10)

----- 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:

Pag	6
-----	---

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),

OpenMeetings	
DB configuration	
Recommendation for production environment	
By default OpenMeetings uses the integrated <u>Apache Derby</u> database. For production e using <u>MySQL</u> , <u>PostgreSql</u> , <u>IBM DB2</u> , <u>MSSQL</u> or <u>Oracle</u>	nvironment you should consider
NOTE Please use unpredictable DB login and 'strong' password with length 8 characters or	more.
Choose DB type Apache Derby Specify the name of the database openmeetings	
	Check
	< > >> Finish
	< > >> Finish

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

OpenMeetings
DB configuration Recommendation for production environment By default OpenMeetings uses the integrated <u>Apache Derby</u> database. For production environment you should consider using <u>MySQL</u> , <u>PostgreSql</u> , <u>IBM DB2</u> , <u>MSSQL</u> or <u>Oracle</u>
NOTE Please use unpredictable DB login and 'strong' password with length 8 characters or more. Choose DB type MySQL Specify DB host localhost Specify DB port 3306 Specify DB user
< > >> Finish

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:

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-namethis user will be administrator.			
Userpass	= passwordfor the previous user.			
Email	= email-adress of the previous user.			
User Time Zone = country where is this server.				
Name	= example-openmeetingsgroup 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:

OpenMeetings	
Configuration	
Allow self-registering	
Send Email to new registered Users New Users need to verify their EMail Default DB objects of all types will be created	
(including Rooms, OAuth2 servers etc.) Mail-Referer	noreply@openmeetings.apache.org
SMTP-Server SMTP-Server Port(default Smtp-Server Port is 25)	localhost 25
SMTP-Username	
SMTP-Userpass	
Enable TLS in Mail Server Auth Set inviter's email address as ReplyTo in email invitations	
Default Language	inglés v
	< >> Finish

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 \ge and a new page will appear:

OpenMeetings			
Converters			
Document conversion DPI 0	150		
Document conversion JPEG Quality 🚳	90		
ImageMagick Path 🚳		Check	
FFMPEG Path 🕚		Check	
SoX Path 📵		Check	
OpenOffice/LibreOffice Path for jodconverter 🕚		Check	
see also <u>Installation</u>			
		< > >> 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/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:

OpenMeetings		
Стурт Туре		
Crypt Class 🚳	org.apache.openmeetings.util.crypt.SCr	
red5SIP Configuration		
Enable SIP		
SIP rooms prefix 0	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-ubdeb2 restart

OpenMeetings
Enter the Application
Database was changed, please restart application to avoid possible issues
If your Red5-Server runs on a different Port or on a different domain alter the config values of the client
Mailing list
http://openmeetings.apache.org/mail-lists.html
There are some companies that also offer commercial support for Apache OpenMeetings:
http://openmeetings.apache.org/commercial-support.html
< > >> Finish

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:

Login	
Username or mail address	
Password	
	Remember login
Forgotten your password?	Network testing
	Not a member? Sign in

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 \rightarrow Configuration

Home 🗸	Rooms 🗸	Recordings 🗸	Administration -
🗢 Welcome			↑
<u>}</u>	Hello firstnam Timezone Europe Unread messages	/Madrid	
Upload new image	Edit your profile		
Help and support			

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

Home 🔻	Rooms -	Recordings - Administra	ion 🗸	
50 🗾 阔	≪ 12 ↦ ы	Search	📙 🌣 🖶 💥	
≎ ID	≎ Key	≎ Value	Configuration	
L	crypt.class.name	org.apache.openmeetings.util.crypt.S CryptImplementation	Type string	T
2	allow.frontend.register	true	Key path.ffmpeg	
3	allow.soap.register	true	Value	
1	allow.oauth.register	true	Last update Oct 17, 2017 5:54:57 PM	
5	default.group.id	1	Updated by toro	
6	mail.smtp.server	localhost	Comment Path To FFMPEG	
7	mail.smtp.port	25	Comment Paul to FFMFEG	
3	mail.smtp.system.email	noreply@openmeetings.apache.org		
Э	mail.smtp.user			
10	mail.smtp.pass			
11	mail.smtp.starttls.enabl e	false		
12	mail.smtp.connection.ti meout	30000		
13	mail.smtp.timeout	30000		
14	application.name	OpenMeetings		
15	default.lang.id	8	3	
L6	document.dpi	150	-	
17	document.quality	90		
18	path.imagemagick			
19	path.sox			
20	path.ffmpeg	•	1 2	
21	path.office			
22	dashboard.rss.feed1	http://mail-archives.apache.org /mod_mbox/openmeetings- user/?format=atom		
23	dashboard.rss.feed2	http://mail-archives.apache.org /mod_mbox/openmeetings- dev/?format=atom		
24	send.email.at.register	false		
25	send.email.with.verficat	false	×	

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:

<u>Download</u>

Thank you.

Alvaro Bustos