Installation of Apache OpenMeetings 4.0.4 on Mageia 6

Mageia-6-x86_64-DVD.iso

It is tested with positive result. We will use the Apache's
binary version OpenMeetings 4.0.4 stable, that is to say
will suppress his compilation. It is done step by step.

25-5-2018

Starting...

1)

Update the OS:

urpmi.update -a

urpmi --auto-update

2)

                    ----- **Installation of libraries and packages** ------

(Only one line with space between each one)

urpmi libjpeg-progs giflib-progs freetype-devel nano gcc-c++ libtool bison file-roller ghostscript freetype unzip gcc ncurses make bzip2 wget ghostscript ncurses git make automake pavucontrol freetype2 curl

3)

------ Installation of OpenJava 1.8 and Icedtea-web ------

OpenMeetings need Java to work. Please download OpenJava:

cd /opt

(Only one line without space between both)

wget http://distrib-coffee.ipsl.jussieu.fr/pub/linux/Mageia/distrib/6/x86_64/ media/core/updates//java-1.8.0-openjdk-devel-1.8.0.161-1.b14.1.mga6.x86_64.rpm

...and install it:

urpmi java-1.8.0-openjdk-devel-1.8.0.161-1.b14.1.mga6.x86_64.rpm

Now we install Icedtea-web can recording and share desktop in OpenMeetings:

urpmi icedtea-web

4)

------ Installation of LibreOffice ------

LibreOffice is needed to convert office files uploaded to pdf. We install it:

urpmi libreoffice

5)

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

Adobe Flash Player, even is need it for webcam and audio in OpenMeetings rooms:

urpmi flash-player-plugin

6)

------ Installation of ImageMagick and Sox ------

ImageMagick, work with image files jpg, png, gif, etc. We install it:

urpmi ImageMagick

Sox, work the sound. We install it:

urpmi sox

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

To compile and install ffmpeg, i´ve followed a guide with somes modifications.
Files updated 25-5-2018:

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

We install some libraries and packets:

(Only one line without space between both)

urpmi libmp3lame-devel freetype2-devel autoconf automake bzip2 cmake freetype-devel gcc gcc-c++ git libtool make mercurial pkgconfig zlib-devel

Download the script that will compile ffmpeg:

cd /opt

wget https://cwiki.apache.org/confluence/download/attachments/27838216/ffmpeg_mageia6.sh

...concede execution permission:

chmod +x ffmpeg_mageia6.sh

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

./ffmpeg_mageia6.sh

The compilation spend about 25 minutes. When finish will show this text:

FFmpeg Compilation is Finished!

FFmpeg is installed in: /usr/local/bin

8)

------ Installation of MySQL and building database ------

We´ll employ MariaDB data server. Install it:

urpmi mariadb

...run MariaDB:

systemctl start mysqld.service

... do a mysql upgrade:

mysql_upgrade

...and give a root password in MariaDB:

mysql_secure_installation

  ...will ask some questions:

...Enter current password for root (enter for none)…… press **Enter**

...Set root password [Y/n] ……………………..…… press **Enter**

...New password: ……………………….…………...type a password that you like

...Re-enter new password: …………………..…….. type again the same password

...Remove anonymous users? [Y/n] ………………… press **Enter**

...Disallow root login remotely? [Y/n] ……………… press **Enter**

...Remove test database and access to it? [Y/n] …….. press **Enter**

...Reload privilege tables now? [Y/n] ……………… press **Enter**

Now we make a database in MariaDB for OpenMeetings:

mysql -p -u root

...will ask for password (you just made right now) type it and make the database:

MariaDB [(none)]> CREATE DATABASE open404 DEFAULT CHARACTER SET 'utf8';

(Only one line with space between both)

MariaDB [(none)]> GRANT ALL PRIVILEGES ON open404.* TO 'hola'@'localhost' IDENTIFIED BY 'Pruv_dw8' WITH GRANT OPTION;

...and exit MariDB:

MariaDB [(none)]> quit

            * open404 …........... is the database name
            * hola   …........... is the user name for this database
            * Pruv_dw8 ………. is the password for this user

You are free to change these names and password, but remember them. Later we´ll need it. The password must be of 8 digitsand have:

1 numeric character
1 lowercase character
1 uppercase character, and
1 special (nonalphanumeric) character.

Now we´ll open MariaDB port 3306, so OpenMeetings can connect with it:

nano /etc/my.cnf

...and comment the line 51:

skip-networking

...modify it so:

skip-networking

...press **Ctrl**+**x** keyboard, and when ask press **Y** and **Enter**, to save changes and exit nano editor:

Restart MariaDB:

systemctl restart mysqld.service

9)
                     ------ Installation of Apache OpenMeetings ------

We´ll install the 4.0.4 stable release.

Make a folder called red5404 where download the Apache OpenMeetings file and where make the installation:

mkdir /opt/red5404

cd /opt/red5404

wget http://archive.apache.org/dist/openmeetings/4.0.4/bin/apache-openmeetings-4.0.4.zip

unzip apache-openmeetings-4.0.4.zip

mv apache-openmeetings-4.0.4.zip /opt

10)

<h2 style="text-align:center">------ Connector Java MariaDB ------</h2>

This file-driver is need it to connect OpenMeetings with MariaDB. Download and install it:

cd /opt

<p style="text-align:center">(Only one line without space between both)</p>

wget http://repo1.maven.org/maven2/mysql/mysql-connector-java/5.1.46/mysql-connector-java-5.1.46.jar

cp mysql-connector-java-5.1.46.jar /opt/red5404/webapps/openmeetings/WEB-INF/lib

11)

<h2 style="text-align:center">------ Script to launch red5-OpenMeeting ------</h2>

We download the script that will 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/

...and concede execution permission:

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

If you made the installation in other path, please edit the script and modify the line:

RED5_HOME=/opt/red5404

...to

RED5_HOME=/your-path-installation

12)

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

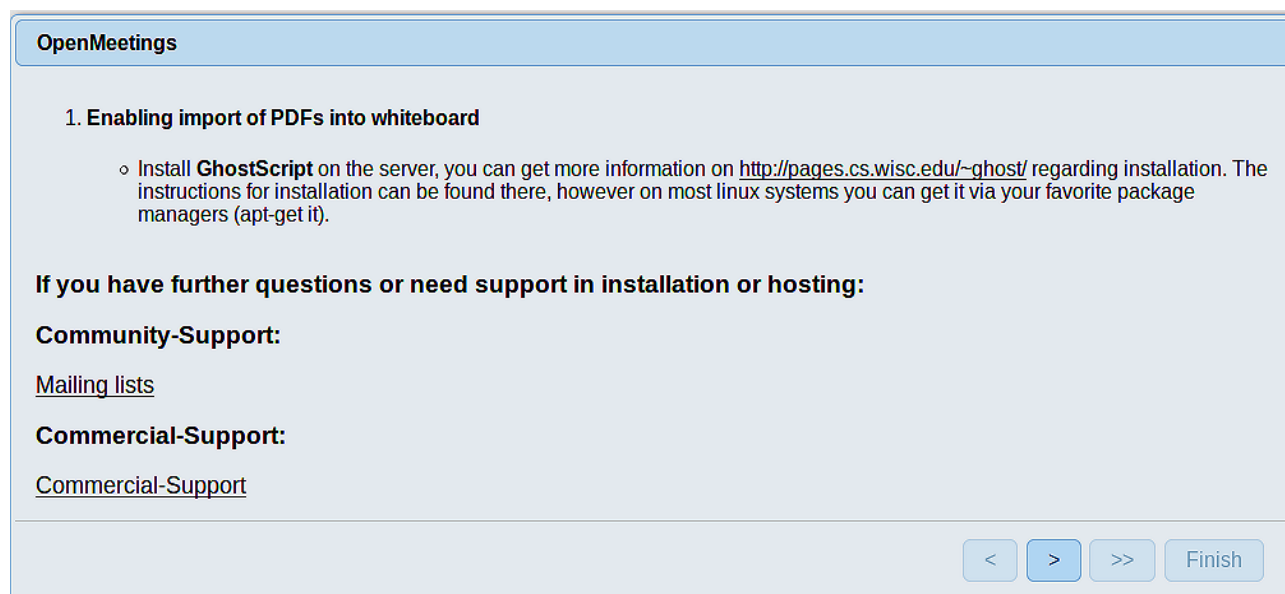Restart MariaDB (be connected to Internet):

systemctl restart mysqld.service

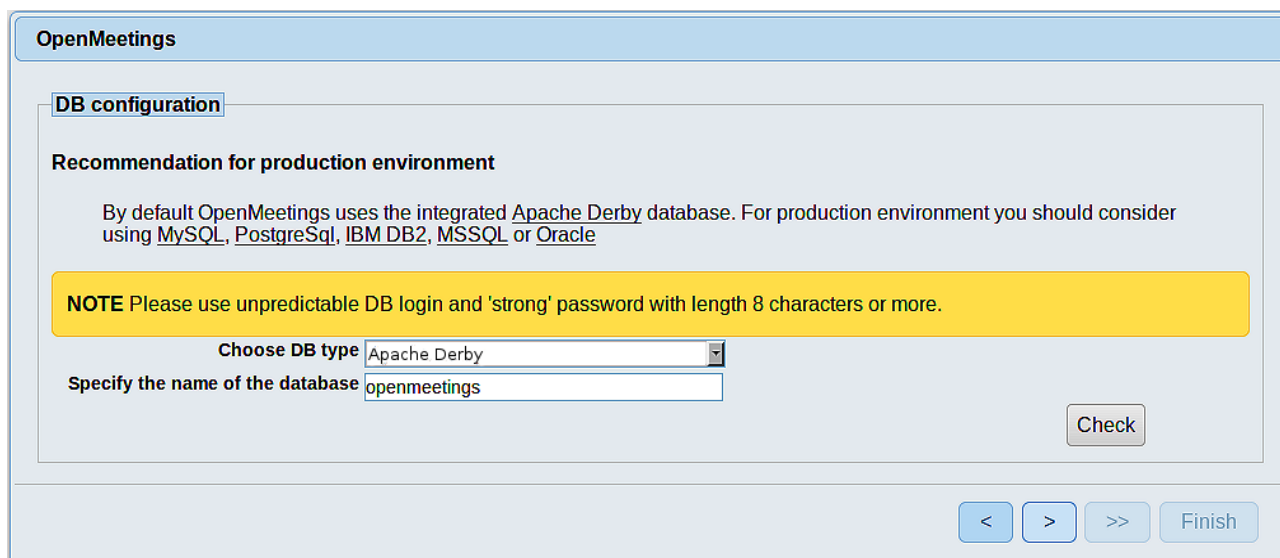...and start red5-OpenMeetings (be connected to Internet):

/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:

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 the 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 Apache Derby database. For production environment you should consider using MySQL, PostgreSql, IBM DB2, MSSQL or Oracle.

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]

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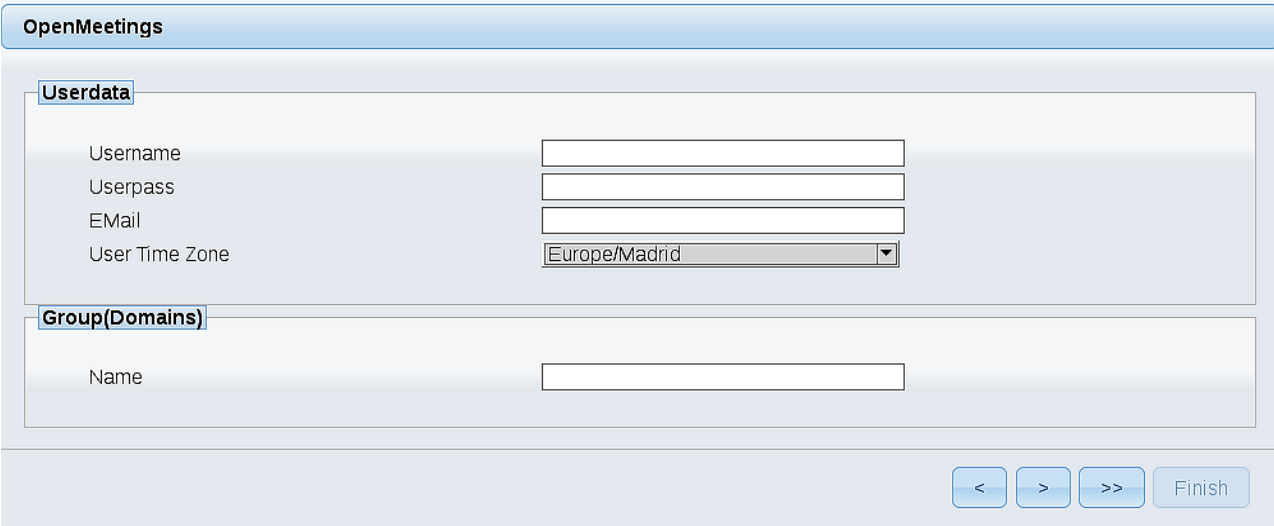
OpenMeetings

DB configuration

Recommendation for production environment

By default OpenMeetings uses the integrated Apache Derby database. For production environment you should consider using MySQL, PostgreSql, IBM DB2, MSSQL or Oracle.

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 the name of the database	openmeetings
Specify DB user	
Specify DB password	

Check

[<] [>] [>>] [Finish]

...we must introduce the database name, user and password we did for our data base, at the step 8:

Specify the name of the databasre	=	open404
Specify DB user	=	hola
Specify DB password	=	Pruv_dw8

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

Please, 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 have administrator rights
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

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

Default language	==	...select your language

...the rest you can modify 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/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 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:

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   >   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, open a new shell window, and run this command
(be connected to Internet):

/etc/init.d/red5-2 restart
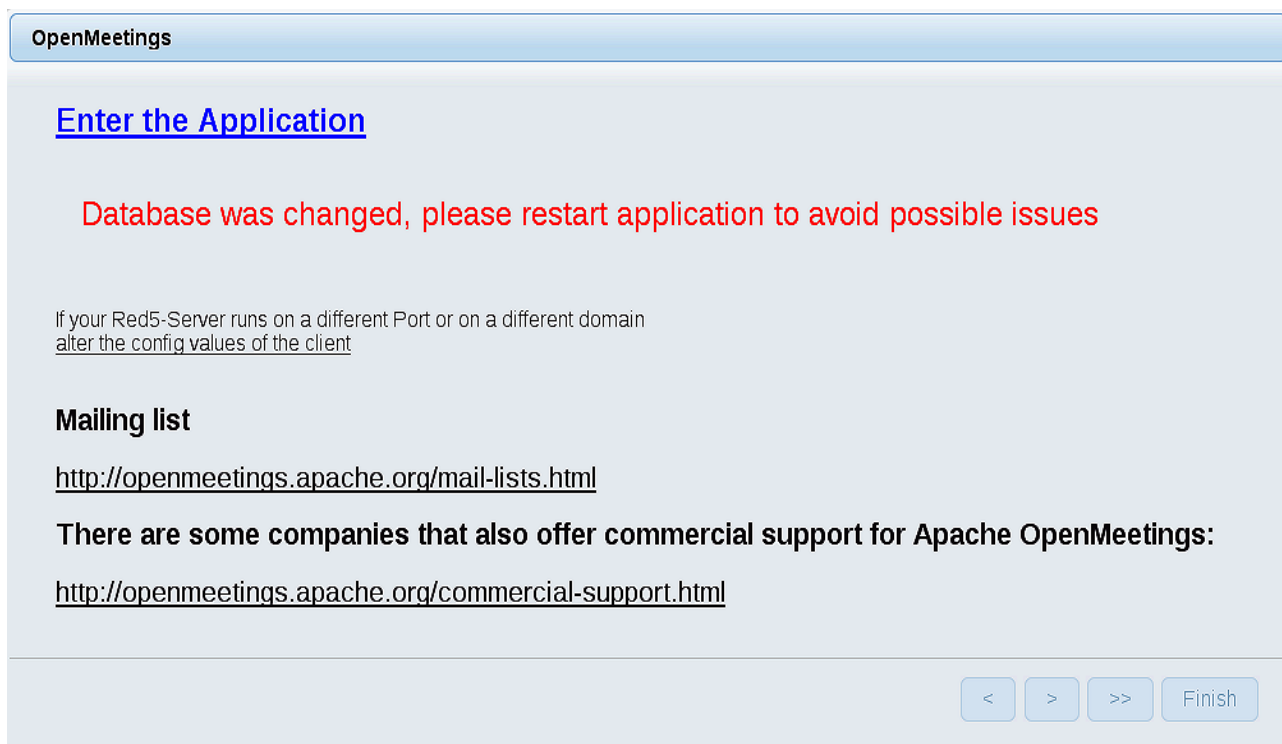
Now yes, you can clic on **Enter the Application**, or go with your browser to:

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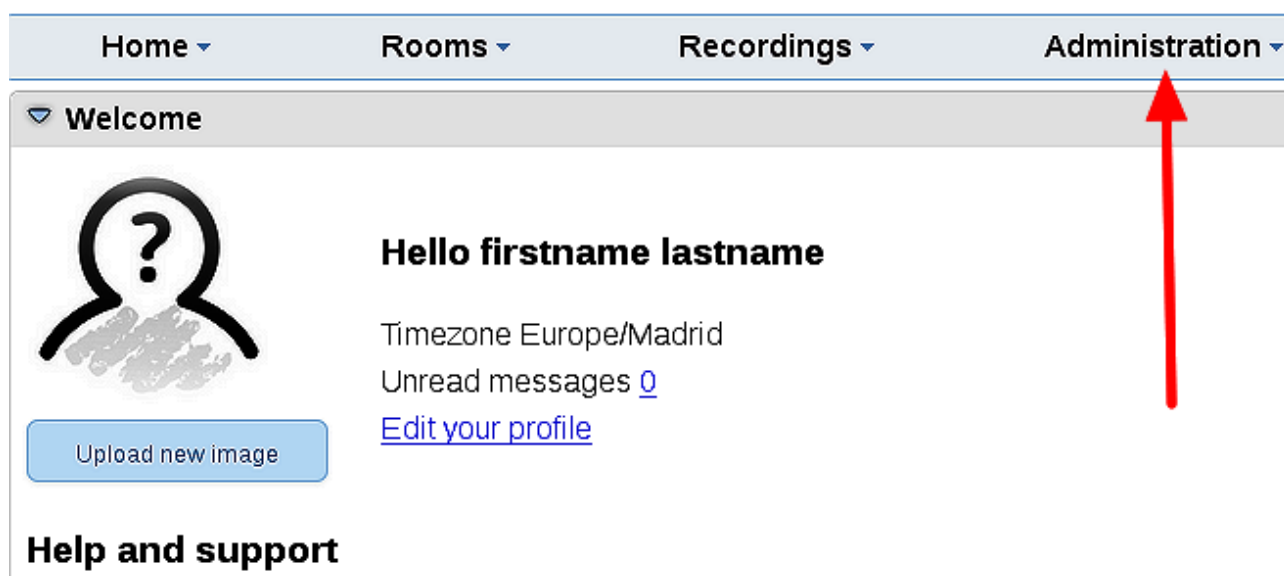
...and following the order of the red arrows:

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