Installation of Apache OpenMeetings 4.0.3

on

Fedora 27 final

This tutorial it is bassed on a fresh installation of

Fedora-MATE_Compiz-Live-x86_64-27-1.6.iso

It is tested with positive result.
We will use the Apache's binary version
OpenMeetings 4.0.3 stable,
that is to say we´ll suppress his compilation.
It is done step by step**.**

19-4-2018

Starting...

1)
At first place, modify Selinux level security, for the installation, and install nano editor:

dnf install nano

sudo nano /etc/selinux/config

…modify:

SELINUX=**enforcing**

...to

SELINUX=**permissive**

Press **Ctrl+x** and will ask to save, press **Y,** and **Enter**, to save and leave nano´s editor.

2)

------ Update Operative System ------

Update operative system:

dnf update -y

...and reboot, for kernel changes if it is, and the new **Selinux** configuration:

reboot

3)

------ ADD Repos ------

RPM Fusion repo

(Only one line without space between them)

su -c 'dnf install --nogpgcheck http://download1.rpmfusion.org/free/fedora/rpmfusion-free-release-27.noarch.rpm http://download1.rpmfusion.org/nonfree/fedora/rpmfusion-nonfree-release-27.noarch.rpm'

Adobe repo **32 bit** ### For Flash Player.

rpm -ivh http://linuxdownload.adobe.com/adobe-release/adobe-release-i386-1.0-1.noarch.rpm

rpm --import /etc/pki/rpm-gpg/RPM-GPG-KEY-adobe-linux

Adobe repo **64-bit** ### For Flash Player.

rpm -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

 Update again:

dnf update -y

4)

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

We install packages and libraries necessary:

(Only one line with a space between them)

dnf install -y libjpeg-turbo libjpeg-turbo-devel libjpeg-turbo-utils giflib-devel freetype-devel gcc-c++ zlib-devel libtool bison bison-devel file-roller ghostscript freetype unzip gcc ncurses make bzip2 wget ghostscript ncurses zlib git make automake nasm pavucontrol alsa-plugins-pulseaudio nmap tomcat-native 'dnf-command(versionlock)'

5)

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

Java **1.8** is need it to work OpenMeetings **4.0.3**. Will install Oracle Java 1.8.

-- Only for Fedora 32 bit --

 cd /opt

Download the file:

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

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/8u172-b11/a58eab1ec242421181065cdc37240b08/jdk-8u172-linux-i586.rpm

...and install it:

rpm -ivh jdk-8u172-linux-i586.rpm

-- Only for Fedora 64 bit –

cd /opt

Download the file:

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

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/8u172-b11/a58eab1ec242421181065cdc37240b08/jdk-8u172-linux-x64.rpm

...and install it:

rpm -ivh jdk-8u172-linux-x64.rpm

-- Now for both, **32 bit and 64 bit** –

May be you have installed different versions of Java. Please, select the just installed Oracle Java:

update-alternatives --config java

And to see if the selected version is active:

java -version

6)
------ Installation of LibreOffice ------

LibreOffice it is installed already in the distro, but if you use a server iso then install it:

dnf -y install libreoffice

Is need it to convert uploaded office files to pdf.

7)
------ Installation of ImageMagick and Sox ------

 ImageMagick, work with the images files jpg, png, gif, etc. Install it:

dnf -y install ImageMagick

Sox, work with the audio. Install it:

dnf -y install sox

8)
------ Installation of Adobe Flash Player ------

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

dnf install -y flash-plugin

9)

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

FFmpeg will work with video. Will install a paquets and libraries.

(Only one line with space between both)

dnf install -y glibc alsa-lib-devel gsm gsm-devel imlib2 imlib2-devel libogg libvorbis vorbis-tools theora-tools libvpx-devel mercurial cmake curl git vlc

This ffmpeg compilation is based on this url, and updated to 19-4-2018.

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

I made a script to download, compile and install ffmpeg on Fedora. It is tested and is ok.
The result of any recording we do in OpenMeetings, will be in mp4 format.

We download this script:

cd /opt

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

...concede execution permission:

chmod +x ffmpeg-fedora.sh

...and run it:

./ffmpeg-fedora.sh

The compilation will spend about 20-30 minutes.

At the end, a text will apear: FFMPEG Compilation is Finished!

Then, please go to **step 10)**.

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

10)

------ Installation of MariaDB data server ------

MariaDB is the data server fork of MySQL.

We install it:

dnf install -y mariadb mariadb-server

...and run MariaDB (be connected to Internet, to run it quickly):

systemctl start mariadb.service

Give a password to root in MariaDB. Please, replace **new-password** by your own whish:

mysqladmin -u root password **new-password**

Make a database for OpenMeetings:

mysql -u root -p

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

  MariaDB [(none)]> CREATE DATABASE open403 DEFAULT CHARACTER SET 'utf8';

Now we create a user with all permision on this open403 database. User password must be of 8 digits minimum:

                    (Only one line with space between both)

MariaDB [(none)]> GRANT ALL PRIVILEGES ON open403.* TO 'hola'@'localhost' IDENTIFIED BY '1a2B3c4D' WITH GRANT OPTION;

                    * open403 .... name of the database
                    * hola   .... user for that database
                    * 1a2B3c4D .... password of that user

You can change the data...but remember it! Later we´ll need it.

Now we leave MariaDB:

MariaDB [(none)]> quit

11)
                    ------ **Installation of Apache OpenMeetings** ------

Make a folder called **red5403** where download the Apache OpenMeetings file, and where we´ll do the installation:

mkdir /opt/red5403

cd /opt/red5403

...download and uncompress the file:

wget http://apache.miloslavbrada.cz/openmeetings/4.0.3/bin/apache-openmeetings-4.0.3.zip

unzip apache-openmeetings-4.0.3.zip

...save the original file to /opt:

mv apache-openmeetings-4.0.3.zip /opt

12)

------ Connector Java MariaDB ------

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

cd /opt

(Only one line without space between both)

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

cp mysql-connector-java-5.1.46.jar /opt/red5403/webapps/openmeetings/WEB-INF/lib

13)

------ 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/

...and concede execution permission:

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

If you made the installation in any other different path to /opt/red5403, please edit the script and modify the line:

RED5_HOME=/opt/red5403

...to

RED5_HOME=/your-path-installation

14)

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

Run MariaDB (be connected to Internet, to run it quickly):

systemctl start mariadb.service

...and red5-OpenMeetings (be connected to Interner, to run it quickly):

/etc/init.d/red5-2 start

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

http://localhost:5080/openmeetings/install

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

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

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

Now we must introduce the database name, the user name and his password we did at the step 10:

Specify the name of the database   =   open403

Specify DB user   =   hola

Specify DB password   =   1a2B3c4D

...if you choose any other data please type 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-name ...This user name 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)

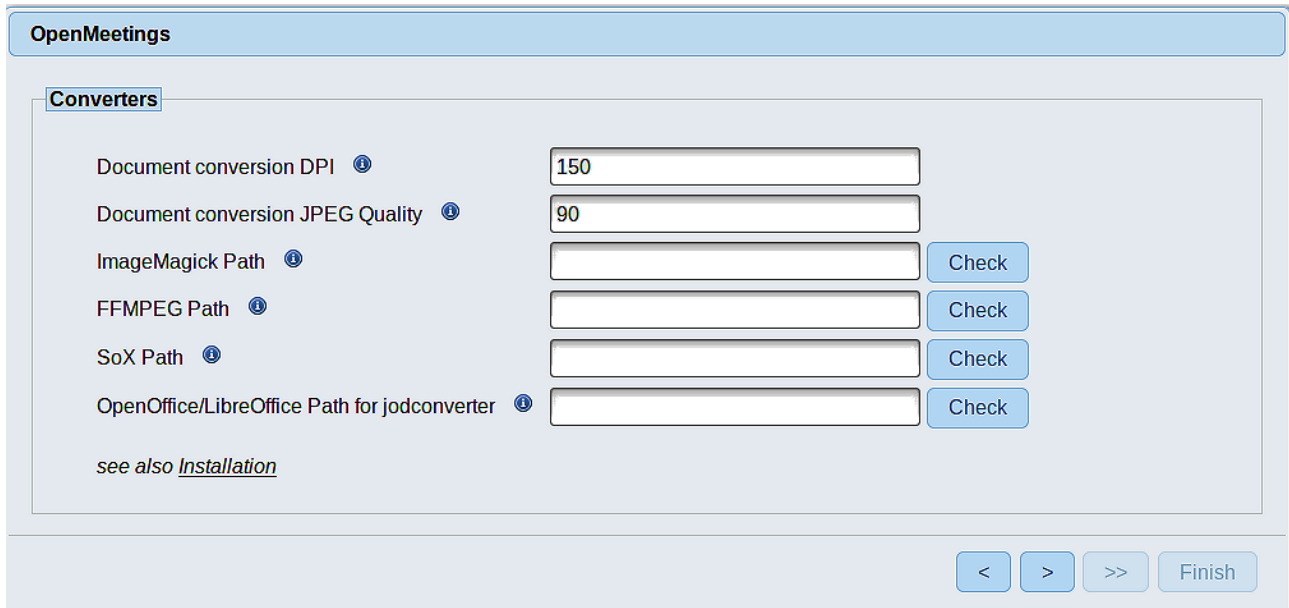|		
Mail-Refer	==	john@gmail.com
SMTP-Server	==	smtp.gmail.com
SMTP-Server Port (default Smtp-Server Port is 25)	==	587
SMTP-Username	==	john@gmail.com
SMTP-Userpass	==	password of john@gmail.com
Enable TLS in MailServer Auth	==	...turn green the button to activate

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

Default Language	==	...select your language

...the rest you can change 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 (Path)   ==   /usr/bin

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

SOX Path (Path)   ==   /usr/bin

OpenOffice/LibreOffice Path (Path) for jodconverter   == /usr/lib/libreoffice   **(32bits)**
          == /usr/lib64/libreoffice   **(64bits)**

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 (be connected to Internet):

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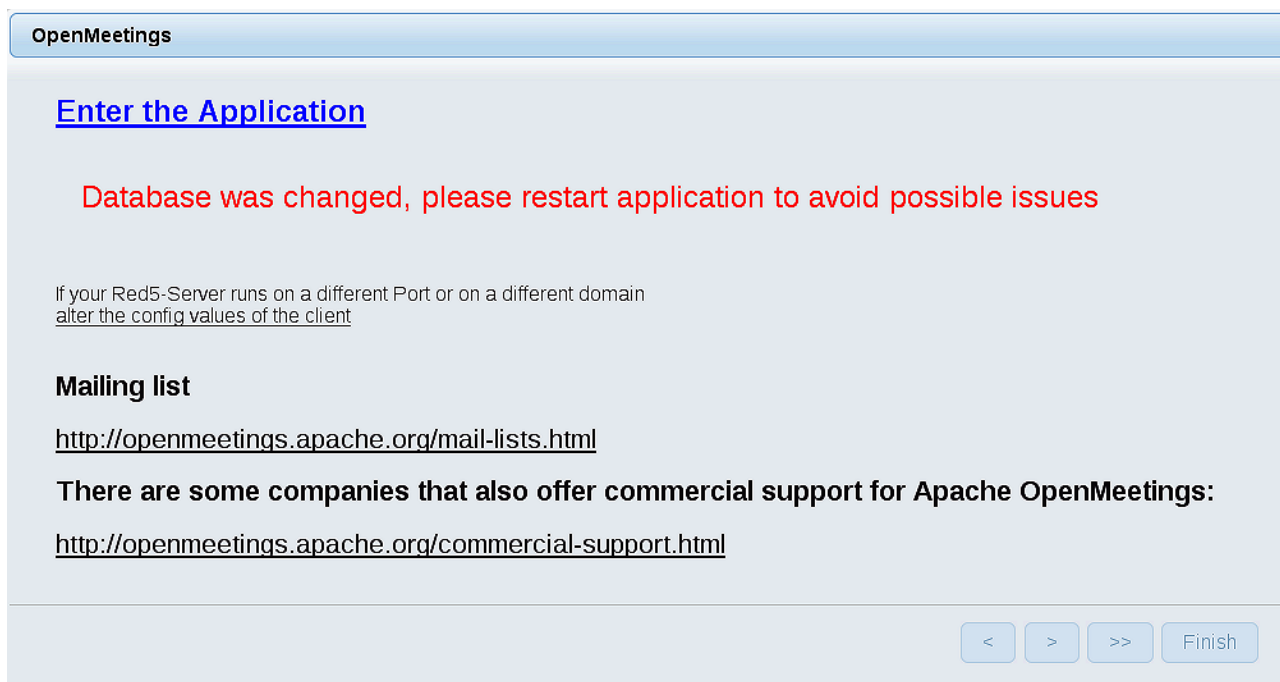
Now yes, you can clic on **Enter the Application**, or go with your browser to:

<div align="center">http://localhost:5080/openmeetings</div>

...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 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 from Internet.

15)

------ Configuration of OpenMeetings ------

Once you acced to OpenMeetings, if you would like to do any modification in the configuration, please go to:

Administration → Configuration
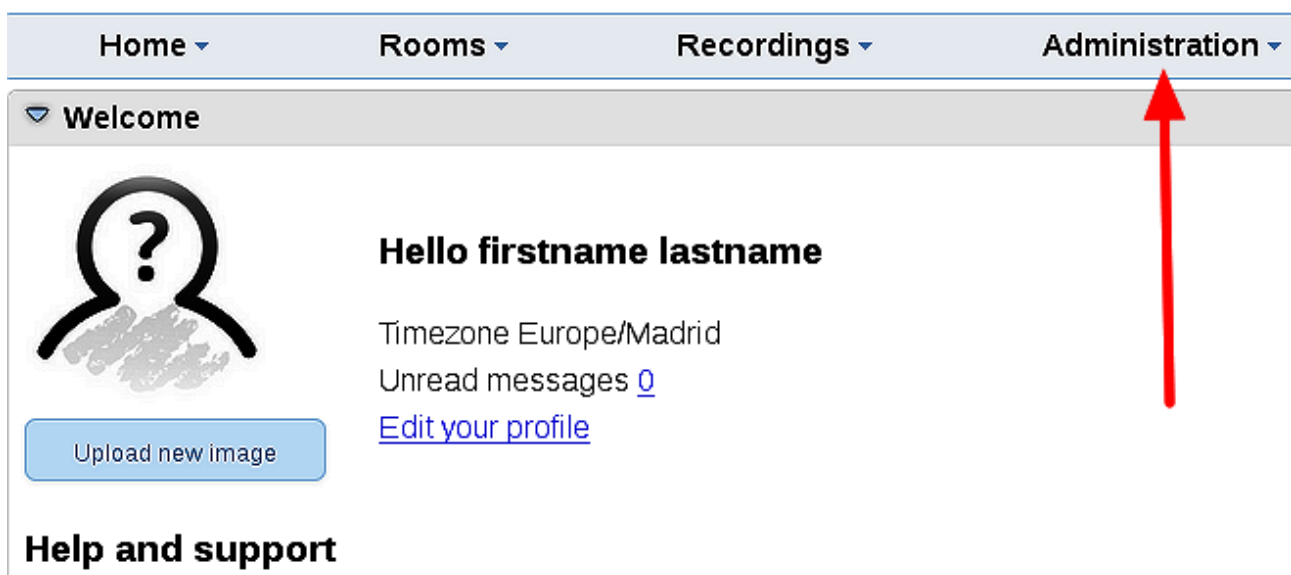
...and following the order of the red arrows:

And this is all.

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

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

Thank you.

Alvaro Bustos