

Installation of Apache OpenMeetings 4.0.2

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 4.0.2 stable, that is to say we'll suppress his compilation. It is done step by step.

25-2-2018

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

------ 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 gccc++ 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 4.0.2. Will install Oracle Java 1.8.

-- Only for Fedora 32 bit --

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-i586.rpm

...and install it:

rpm -ivh jdk-8u161-linux-i586.rpm

-- Only for Fedora 64 bit -

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

4)

...and install it:

rpm -ivh jdk-8u161-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

----- 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 25-2-2018.

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:

9)

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 open402 DEFAULT CHARACTER SET 'utf8';

Now we create a user with all permision on this open402 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;

* open402name of the database
* holauser 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 **red5402** where download the Apache OpenMeetings file, and where we'll do the installation:

mkdir /opt/red5402

cd /opt/red5402

...download and uncompress the 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 original file to /opt:

mv apache-openmeetings-4.0.2.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)

 $wget\ http://repo1.maven.org/maven2/mysql/mysql-connector-java/5.1.45/mysql-connector-java-5.1.45/mysql-connecto$

cp mysql-connector-java-5.1.45.jar /opt/red5402/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/red5402, please edit the script and modify the line:

RED5_HOME=/opt/red5402

...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:

OpenMeetings
 1. Enabling import of PDFs into whiteboard Install GhostScript on the server, you can get more information on <u>http://pages.cs.wisc.edu/~ghost/</u> 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 [>] (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 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 Apache Derby Specify the name of the database openmeetings
Check
< > >> Finish

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

DpenMeetings
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 the name of the database openmeetings
Specify DB user
Specify DB password
Check
< >> Finish

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 = open402

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)		
		< > >> 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 name will have administrator rights.
Userpass	=	a-passwordfor the previous user
EMail	=	email-adress of the previous user.
User Time Z	one	= 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:

O	penMeetings	
	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	localhost
	SMTP-Server Port(default Smtp-Server Port is 25)	25
	SMTP-Username	
	SMTP-Userpass	
	Enable TLS in Mail Server Auth	
	Set inviter's email address as ReplyTo in email invitations	
	Default Language	inglés 🗸
		< > >> 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 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.

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 0		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 /usr/lib64/libreoffice	(32bits) (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:

OpenMeetings	
Сгурт Туре	
Crypt Class 📵	org.apache.openmeetings.util.crypt.SCr
red5SIP Configuration	
Enable SIP 🗕	
SIP rooms prefix 0	400
SIP extensions context 0	rooms
	< > >> Finish

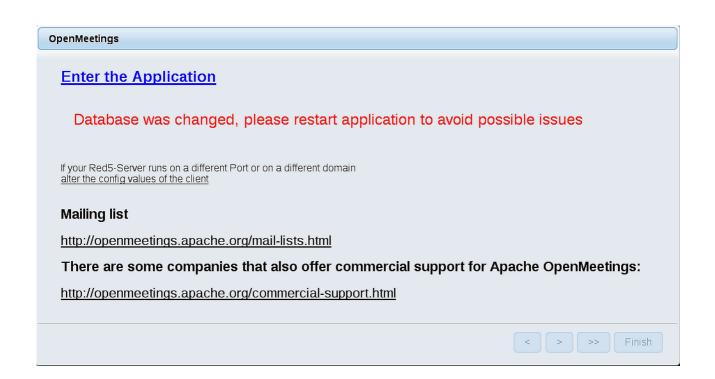
Now push the button > Will show this window:

	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 <u>Enter the Application</u>. 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:

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 chosen during the installation, push **Sign in** button and...

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 \rightarrow Configuration

Home 🗸	Rooms -	Recordings 🗸	Administration -
▽ Welcome			•
(?)	Hello firstnan	ne lastname	
	Timezone Europe	/Madrid	
C. C	Unread message	s <u>0</u>	
Upload new image	Edit your profile		
Help and support			

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

Home -	Rooms -	Recordings - Administra	
50 📩 🖬 🖣	≪ 12 ↦ ы	Search)	🗎 🗧 🕂 💥
≎ ID	≎ Key	≎ Value	Configuration
	crypt.class.name	org.apache.openmeetings.util.crypt.S CryptImplementation	Type string
2	allow.frontend.register	true	Key path.ffmpeg
}	allow.soap.register	true	Value
L	allow.oauth.register	true	Last update Oct 17, 2017 5:54:57 PM
5	default.group.id	1	Updated by toro
5	mail.smtp.server	localhost	Comment Path To FFMPEG
7	mail.smtp.port	25	Comment Pain to FFMPEG
3	mail.smtp.system.email	noreply@openmeetings.apache.org	
)	mail.smtp.user		
LO	mail.smtp.pass		
11	mail.smtp.starttls.enabl	false	
.2	mail.smtp.connection.ti meout	30000	
13	mail.smtp.timeout	30000	
4	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		<u> </u>
21	path.office		5
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	

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