



Installation of Apache OpenMeetings 4.0.11 on Linux Mint 20

This tutorial is made based on a minimal fresh installations of

linuxmint-20-mate-64bit.iso

It is tested with positive result. We will use the Apache's binary version OpenMeetings 4.0.11 stable, that is to say will suppress his compilation. It is done step by step.

Starting...

1)

First, we update and upgrade the OS:

```
sudo apt update
```

```
sudo apt upgrade
```

2)

----- **Installation of Java** -----

OpenMeetings 4.0.11 need Java to work. So, we install OpenJava 11:

```
sudo apt install openjdk-11-jdk openjdk-11-jdk-headless
```

...and his plugin for web:

```
sudo apt install icedtea-netx
```

Now, please select OpenJava 11, 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.

But we install it specially for server iso:

```
sudo add-apt-repository ppa:libreoffice/ppa
```

```
sudo apt update
```

```
sudo apt install libreoffice
```

4)

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

ImageMagick, 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
```

Sox, work the sound. We install it:

```
sudo apt install sox
```

5)

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

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

```
sudo apt install flashplugin-installer
```

6)

----- Installation of FFmpeg -----

FFmpeg will work the video. We install it:

```
sudo apt install -y ffmpeg
```

7)

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

MariaDB is the data server. Will install it:

```
sudo apt install mariadb-server
```

Run MariaDB:

```
sudo /etc/init.d/mysql start
```

Now we give a root password to MariaDB. Please, replace **new-password** with your own:

```
sudo mysqladmin -u root password new-password
```

Make a database with his own user for OpenMeetings:

```
sudo mysql -u root -p
```

...will ask for the root password that you have just chosen, type it...

```
MariaDB [(none)]> CREATE DATABASE open4011 DEFAULT CHARACTER SET 'utf8';
```

With this command we has created a database called open4011.

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 open4011.* TO 'hola'@'localhost'  
IDENTIFIED BY '1a2B3c4D' WITH GRANT OPTION;
```

- * open4011is 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
```

8)

----- Installation of OpenMeetings -----

We'll install OpenMeetings in /opt/red54011. Make the folder:

```
sudo mkdir /opt/red54011
```

```
cd /opt/red54011
```

...and download the red5-OpenMeetings file:

(Only one line without space between both)

```
sudo wget https://archive.apache.org/dist/openmeetings/4.0.11/bin/apache-openmeetings-  
4.0.11.tar.gz
```

```
sudo tar xzvf apache-openmeetings-4.0.11.tar.gz
```

...save the unloaded file to /opt:

```
sudo mv apache-openmeetings-4.0.11.tar.gz /opt
```

Do to **nobody** owner of the whole OpenMeetings folder installation, by security:

```
sudo chown -R nobody /opt/red54011
```

Download and install the connector between OpenMeetings and MariaDB:

```
cd /opt
```

(Only one line without space between both)

```
sudo wget https://repo1.maven.org/maven2/mysql/mysql-connector-java/5.1.49/mysql-connector-java-5.1.49.jar
```

...and copy it to where must be:

```
sudo cp /opt/mysql-connector-java-5.1.49.jar /opt/red54011/webapps/openmeetings/WEB-INF/lib
```

9)

----- Script to launch red5-OpenMeetings -----

Please, download the red5 run script:

```
cd /opt
```

```
sudo wget https://cwiki.apache.org/confluence/download/attachments/27838216/red5-ubdeb2
```

...and copy it to:

```
sudo cp red5-ubdeb2 /etc/init.d/
```

...and concede permission of execution:

```
sudo chmod +x /etc/init.d/red5-ubdeb2
```

10)

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

Start MariaDB, if still it is not:

```
sudo /etc/init.d/mysql start
```

...and now start red5-OpenMeetings. Please, be connected to Internet:

```
sudo /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 runing completely. And after this, can go to:


<http://localhost:5080/openmeetings>

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

The screenshot shows the first step of the OpenMeetings installation wizard. The title bar reads "OpenMeetings". The main heading is "1. Enabling import of PDFs into whiteboard". Below this, there is a bullet point: "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).".

Below the instructions, there is a section titled "If you have further questions or need support in installation or hosting:". Under this, there are two sub-sections: "Community-Support:" with a link to "Mailing lists", and "Commercial-Support:" with a link to "Commercial-Support".

At the bottom right of the page, there are four navigation buttons: "<", ">", ">>", and "Finish".

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

The screenshot shows the second step of the OpenMeetings installation wizard. The title bar reads "OpenMeetings". The main heading is "DB configuration".

Below the heading, there is a section titled "Recommendation for production environment". The text reads: "By default OpenMeetings uses the integrated [Apache Derby](#) database. For production environment you should consider using [MySQL](#), [PostgreSQL](#), [IBM DB2](#), [MSSQL](#) or [Oracle](#)".

Below this, there is a yellow highlighted box containing the text: "NOTE Please use unpredictable DB login and 'strong' password with length 8 characters or more."

Below the note, there are two input fields: "Choose DB type" with a dropdown menu currently showing "Apache Derby", and "Specify the name of the database" with a text input field containing "openmeetings".

At the bottom right of the page, there are four navigation buttons: "<", ">", ">>", and "Finish". A "Check" button is also present near the bottom right of the form area.


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

Now we must introduce the database name, user name and his password, we did at the step 7:

Specify the name of the database = open4011

Specify DB user = hola

Specify DB password = 1a2B3c4D

...if you choose any other data, type it here. 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 be administrator.

Userpass = 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:

OpenMeetings

Configuration

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

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  and a new page will appear:

OpenMeetings

Converters

Document conversion DPI ⓘ

Document conversion JPEG Quality ⓘ

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

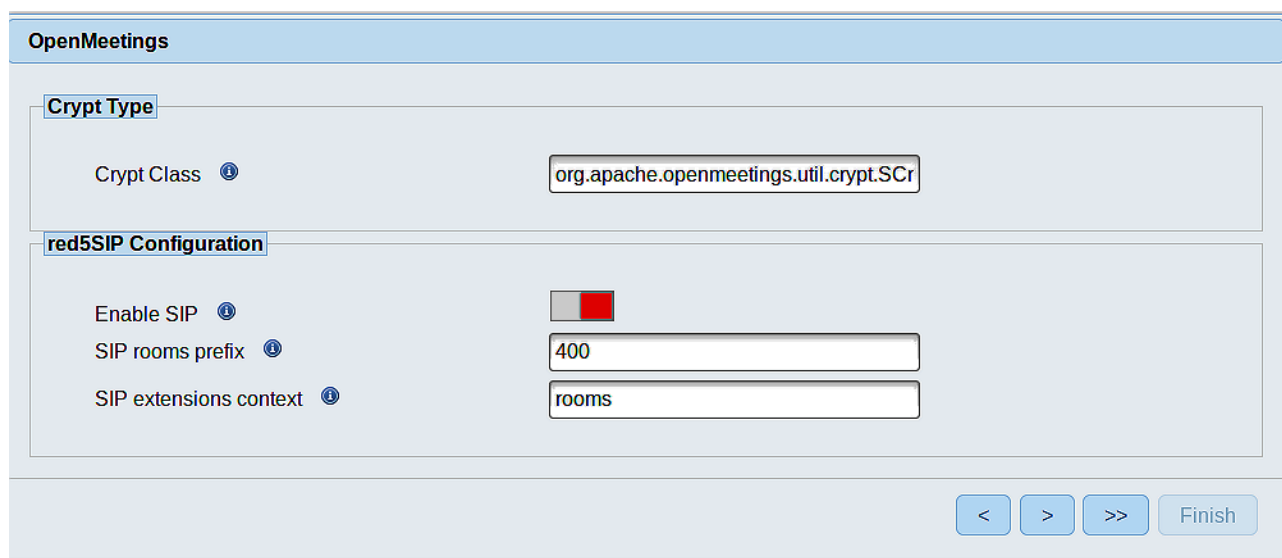
FFMPEG Path == /usr/bin

SOX Path == /usr/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:

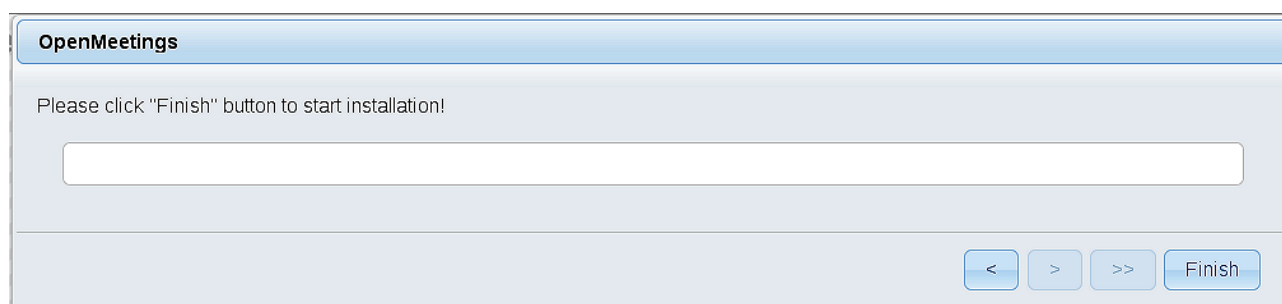


The screenshot shows the 'OpenMeetings' configuration window. It has a title bar 'OpenMeetings' and a light blue header. The main area is divided into two sections:

- Crypt Type**: Contains a 'Crypt Class' field with a help icon and a text input field containing 'org.apache.openmeetings.util.crypt.SCr'.
- red5SIP Configuration**: Contains three fields:
 - 'Enable SIP' with a checked checkbox.
 - 'SIP rooms prefix' with a text input field containing '400'.
 - 'SIP extensions context' with a text input field containing 'rooms'.

At the bottom right, there are four buttons: '<', '>', '>>', and 'Finish'.

Now push the button  and will show this window:



The screenshot shows the 'OpenMeetings' configuration window after clicking the next button. The title bar is 'OpenMeetings' and the header is light blue. The main area contains the text 'Please click "Finish" button to start installation!' above a large empty text input field. At the bottom right, there are four buttons: '<', '>', '>>', and '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:

```
sudo /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 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

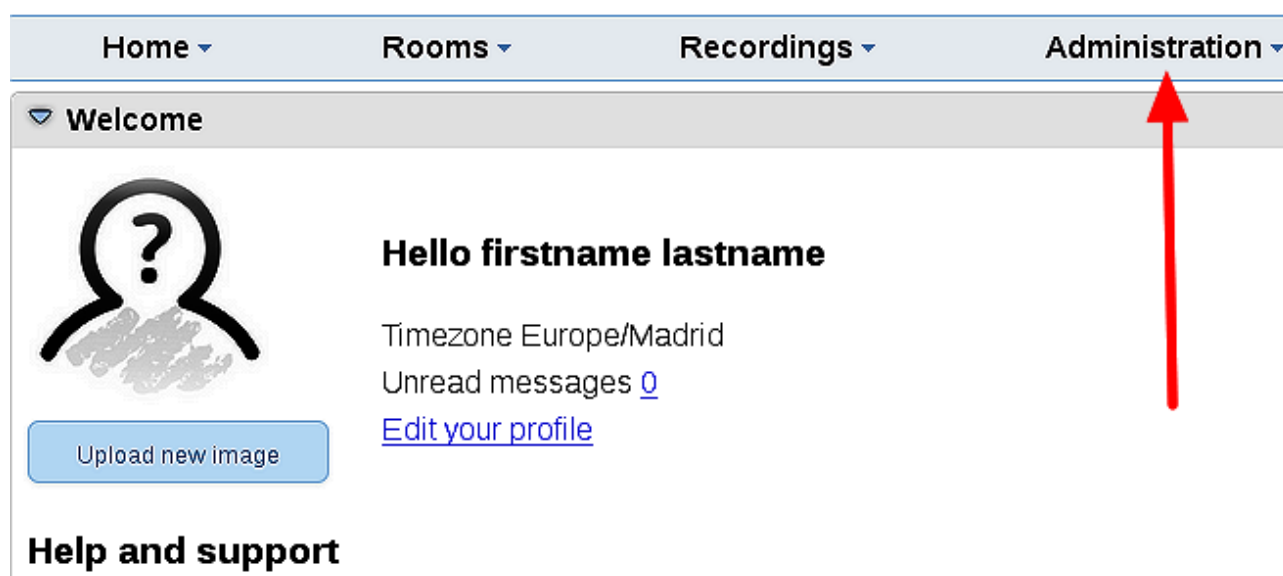
...in order that it could accede to OpenMeetings from other machines in LAN or Internet.

11)

----- **OpenMeetings's Configuration** -----

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

Administration → Configuration



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

The screenshot shows the OpenMeetings Administration interface. On the left is a table of configuration items, and on the right is a configuration form for the selected item.

ID	Key	Value
1	crypt.class.name	org.apache.openmeetings.util.crypt.SCryptImplementation
2	allow.frontend.register	true
3	allow.soap.register	true
4	allow.oauth.register	true
5	default.group.id	1
6	mail.smtp.server	localhost
7	mail.smtp.port	25
8	mail.smtp.system.email	noreply@openmeetings.apache.org
9	mail.smtp.user	
10	mail.smtp.pass	
11	mail.smtp.starttls.enable	false
12	mail.smtp.connection.timeout	30000
13	mail.smtp.timeout	30000
14	application.name	OpenMeetings
15	default.lang.id	8
16	document.dpi	150
17	document.quality	90
18	path.imagemagick	
19	path.sox	
20	path.ffmpeg	
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.verification	false

The configuration form on the right shows the following details for the selected item:

- Type: string
- Key: path.ffmpeg
- Value: (empty field)
- Last update: Oct 17, 2017 5:54:57 PM
- Updated by: toro
- Comment: Path To FFMPEG

Red arrows indicate the sequence of actions: 1 points to the 'path.ffmpeg' row in the table, 2 points to the 'Value' field in the form, and 3 points to the 'Configuration' tab.

12)

----- Modification of ImageMagick -----

We modify ImageMagick, so OpenMeetings can upload office files to whiteboard:

```
sudo nano /etc/ImageMagick-6/policy.xml
```

...and comment out the two follow lines near to bottom file:

```
<policy domain="coder" rights="none" pattern="PS" />
<policy domain="coder" rights="none" pattern="PDF" />
```

...to:

```
<!-- <policy domain="coder" rights="none" pattern="PS" /> -->
<!-- <policy domain="coder" rights="none" pattern="PDF" /> -->
```

Press in the keyboard Ctrl+x, will ask to save, press Y, and press Enter to exit nano editor.

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

<https://openmeetings.apache.org/mailling-lists.html>



Also you can download if you like, a wallpaper of OpenMeetings for different devices such as:

PC, Mac, Smartphone, iPhone and Tablets. Here is the link to download:

[OpenMeetings Wallpaper Download](#)

A dvd live iso with OpenMeetings 4.0.11 on Ubuntu 18.04 lts and other OpenMeetings 5.0.1 on Ubuntu 18.04 lts, is at your disposal.

Can find them here:

[Live iso download](#)

Thank you.

Alvaro Bustos (PMC and Committer at Apache OpenMeetings).