

Installing Wildfire for LAMS

Downloading Wildfire/Openfire

LAMS 2.0's chat tool uses the Wildfire chat server software to operate its chat rooms. You can get away with using LAMS without a Wildfire server for LAMS, you just won't be able to do any actual chatting.

Wildfire has recently been renamed [Openfire](#).

Installing and Configuring Wildfire

For LAMS we recommend you get the Wildfire 2.6.2 version. This is an older version and cannot be found directly from the Wildfire/Openfire website, so please use the links below to download the software.

Windows

- [Wildfire v2.6.2 installer](#) (includes JRE) The installer package is about 17 MB in size. This package is recommended if you just want to get set up and running quickly.
- There's also a Wildfire v2.6.2 for Windows version [without JRE](#). For those installing this version, please refer to Wildfire's [installation documentation](#).
- Wildfire 3.0 can also be used for LAMS on Windows, but you will need to check the troubleshooting page for various issues with the new version of Wildfire.

Linux, Mac OSX and others

If installing Wildfire onto Linux then we only support LAMS running with Wildfire 2.6.2. *LAMS is **not** compatible with the new Wildfire 3.0 on Linux.*

- [Linux Wildfire v2.6.2 rpm](#)
- [Mac OSX and others](#).

Post Installation

Once installed and running, you'll need to go to <http://127.0.0.1:9090> and configure Wildfire via a few setup screens.

When asked about the Database Settings, set it to Embedded Database.

Once you've finished the setup, login using the admin account you would have created, and make the following configuration changes:



Disable 'Show History'

In the History Settings under the Group Chat menu, set the option to 'Don't Show History'. This is important if you don't want duplicate messages to appear in the LAMS chat windows.



Wildfire 3.2+ - Disable HTTP Bind Service

If you must use a later version of Wildfire, note that by default Wildfire 3.2 has a HTTP Bind service that listens on port 8080 - if you haven't changed LAMS to use another port, then this will conflict. This service is not necessary for LAMS - disable it.

For convenience, you probably want to set Wildfire up as a service. The instructions for doing this are on the [OpenFire website](#) - the page refers to a newer version of Wildfire but they should work okay with version 2.6.2.

Troubleshooting

Error code 400 in chat window

As a sysadmin, check that the configuration setting XmppDomain in LAMS is set to the same name as ServerName in the Wildfire configuration. Specifying a different address will result in the client being disconnected immediately after login.

For example, if Wildfire resides on the local machine and the wildfire server is configured to `lamsdev05`, then the following will occur.

A javascript alert by JWChat

```
An Error Occured:
Code: 400
Type: Modify
Condition: bad-request
```

In the Wildfire logs the following will appear under the Warn and Debug tabs respectively

```
2006.03.22 14:12:25 User tried to authenticate with this server using an unknown receiptient:
<iq id="auth1" to="localhost" type="get" from="lamsdev05/f949d161">
<query xmlns="jabber:iq:auth">
<username>newuser</username>
</query>
</iq>
2006.03.22 14:12:25 User tried to authenticate with this server using an unknown receiptient:
<iq id="auth2" to="localhost" type="set" from="lamsdev05/f949d161">
<query xmlns="jabber:iq:auth">
<username>newuser</username>
<resource>jwchat</resource>
<password>newpasswd</password>
</query>
</iq>
```

```
2006.03.22 14:12:25 Connect Socket[addr=/127.0.0.1,port=2775,localport=5222]
2006.03.22 14:12:25 Logging off lamsdev05/f949d161 on org.jivesoftware.wildfire.net.SocketConnection@1ef3a22
socket: Socket[addr=/127.0.0.1,port=2775,localport=5222]
session: org.jivesoftware.wildfire.ClientSession@511e0a
status: 1
address: lamsdev05/f949d161
id: f949d161 presence:
<presence type="unavailable"/>
```

Error code 401

If you are using an earlier version of Wildfire 3.0.x, you may get a '401 unauthorized' error when you try to connect to a chat room. You may also get these errors in the logs. We recommend using Wildfire 2.6.2 with LAMS for the moment.

```
05:33:43,603 [http-0.0.0.0-8080-3:] DEBUG org.lamsfoundation.lams.tool.chat.JabberHTTPBind.JHBServlet -
starting doPost
05:33:43,605 [http-0.0.0.0-8080-3:] DEBUG org.lamsfoundation.lams.tool.chat.service.ChatService - malformed
presence xml: no from or to attributes present
05:33:43,606 [http-0.0.0.0-8080-3:] DEBUG org.lamsfoundation.lams.tool.chat.JabberHTTPBind.JHBServlet - [2]
terminating session 8i2d8Mj3JppHVAW5e-8J8gBA
```

Jabber Server Chat Rooms Don't Match LAMS - Changing Jabber Server Breaks Existing Chat Sessions

If you have one Jabber server configured, start one or more lessons with a chat session and learners log go into the chat rooms, and **then** you change the Jabber server to which LAMS is talking (i.e. change the XMPPServer in lams.xml) then all the existing chat sessions will break. Restarting LAMS will not fix the problem.

When the first learner goes into a chat room (either the first learner in a class in a chat activity or the first learner in a group for a grouped chat activity), a chat room is created on the Jabber server and the name of the chat room is stored in the database. Next time a student enters, LAMS sees that a room already exists (based on the database record) and doesn't bother recreating it.

If you then change the Jabber server that LAMS is using then LAMS will try to use a chat room that doesn't exist on the new Jabber server, and it won't try to create a new chat rom. You will just get the following in the client.

```
Code: 401
Type: auth
Condition: not-authorized
```

To determine whether this is occurring on your system, look in the tl_lachat11_session table in the LAMS database. The name of the Jabber chat room is in the jabber_room column. Compare the values in this column with the chat rooms on your Jabber server.

If you are using Wildfire go to the Wildfire admin screen (usually <http://servername:9090/>) and then Room Summary (under Room Administration). You just need to compare the long horrible number (e.g. 1153106781681).

If the names of your chat rooms from the LAMS database do not appear in the room summary on the Wildfire server then your chat rooms don't match and the chat sessions for the non-matching entries cannot work.

Temporary fixes:

- The easiest way is to start a new lesson. In the new lesson, the chat rooms should be created on the new server and so any new chat sessions should work. The old ones will remain broken.
- If you really need to get the old chat sessions working, `tl_lachat11_session.jabber_room = null` in the database for the problem lessons. It must be null, not "". The next time a learner accesses the chat session a new chat room should be created on your new server.

If you try the temporary fixes and you still can't get a chat session to work then there must be another error.

This issue is documented in LDEV-435 Chat rooms don't automatically move if switch jabber server

Wildfire is hogging all my CPU cycles!

If you're running Wildfire while offline, Wildfire may be trying to connect to the internet to check for updates. To stop this, login to the admin console, click on 'Manage Updates', and select 'Disabled' under 'Service Enabled'.

Our chat entries appear twice in the chat window!

Login to the admin console, and click 'Group Chat'. Select 'History Settings', and select the option to 'Don't Show History'.

java.lang.IllegalStateException: Not connected to server

When connecting to a chat room, you may get a LAMS error page with the above error. The Wildfire's error.log may show this:

```
2007.06.27 13:00:20 [org.jivesoftware.wildfire.net.SocketReader.negotiateTLS(SocketReader.java:682)] Error
while negotiating TLS
javax.net.ssl.SSLException: Unrecognized SSL message, plaintext connection?
...
2007.06.27 13:00:20 [org.jivesoftware.wildfire.net.SocketReader.run(SocketReader.java:161)] Connection closed
before session established
Socket[addr=/127.0.0.1,port=36487,localport=5222]
```

warn.log may show this:

```
2007.06.27 12:58:04 Stream error detected. Session: org.jivesoftware.wildfire.ClientSession@54824 status: 1
address: localhost/fae79c6a id: fae79c6a presence:
<presence type="unavailable"/>
org.dom4j.DocumentException: Cannot have text content outside of the root document
```

To get around this, login to Wildfire admin console. Under 'Server', 'Security Settings', change 'Client Connection Security' to 'Optional', and 'Not Available' for 'Old SSL Method' as well as 'TLS Method'. Click 'Save Settings'. (This is for Wildfire 2.6.2, later versions may have slightly different menu names).

Still having problems?

Post in the [Technical forums](#) in the LAMS Community.