



Instalación y configuración de un servidor de mensajería

Integrantes: Altamirano, Sergio (sergio_md_altamirano@yahoo.com.ar)

Campagnoni, Gustavo (gcampag@yahoo.com.ar)

Zufiaurre, Hugo (hugo_zufiaurre@yahoo.com.ar)

GNU/Linux – Nivel 1 – Laboratorio GUGLER

Universidad Autónoma de Entre Ríos, Oro Verde

Facultad de Ciencia y Tecnología

AÑO 2013

Copyright (C) 2013, ALTAMIRANO, SERGIO; CAMPAGNONI, GUSTAVO; ZUFIAURRE, HUGO
Permission is granted to copy, distribute and/or modify this document
under the terms of the GNU Free Documentation License, Version 1.3
or any later version published by the Free Software Foundation;
with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts.
A copy of the license is included in the section entitled "GNU
Free Documentation License".

INDICE

<i>Introducción.....</i>	<i>4</i>
<i>Descarga del paquete de instalación.....</i>	<i>4</i>
<i>Instalación.....</i>	<i>5</i>
<i>Comandos para iniciar, apagar y reiniciar el servicio.....</i>	<i>6</i>
<i>Configuración inicial.....</i>	<i>7</i>
<i>Consola de administración.....</i>	<i>12</i>
<i>Creación de usuarios y Grupos</i>	<i>13</i>
<i>Conexión al servidor desde Pidgin.....</i>	<i>17</i>
<i>Conexión al servidor desde PSI.....</i>	<i>20</i>
<i>Conclusion.....</i>	<i>23</i>
<i>GNU Free Documentation License</i>	<i>24</i>

Introducción:

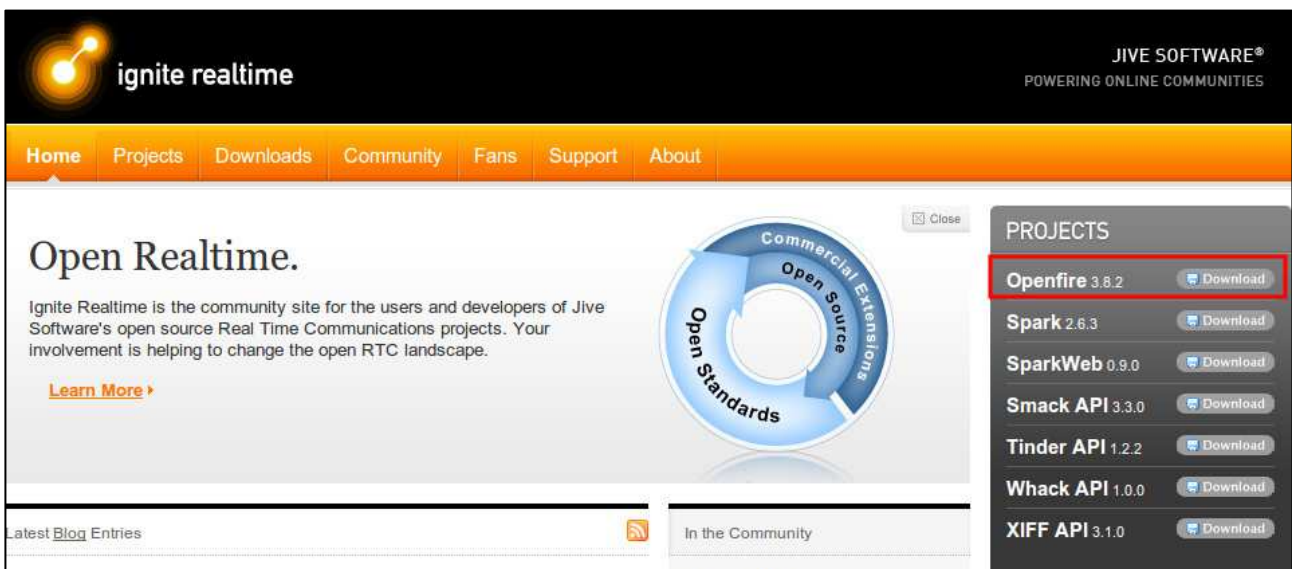
Openfire es un sistema de mensajería instantánea escrito en Java que provee licencias comerciales y GNU y que utiliza el protocolo [JABBER/XMPP](#).

Con el se puede administrar usuarios, grupos, compartir archivos, enviar y recibir mensajes, auditar mensajes, mensajes offline, mensajes broadcast, etc.

A continuación veremos un resumen de los pasos mas importantes para instalar y configurar un servidor de mensajería OPENFIRE.

Descarga del paquete de instalación:

Web del proyecto: <http://www.igniterealtime.org/>

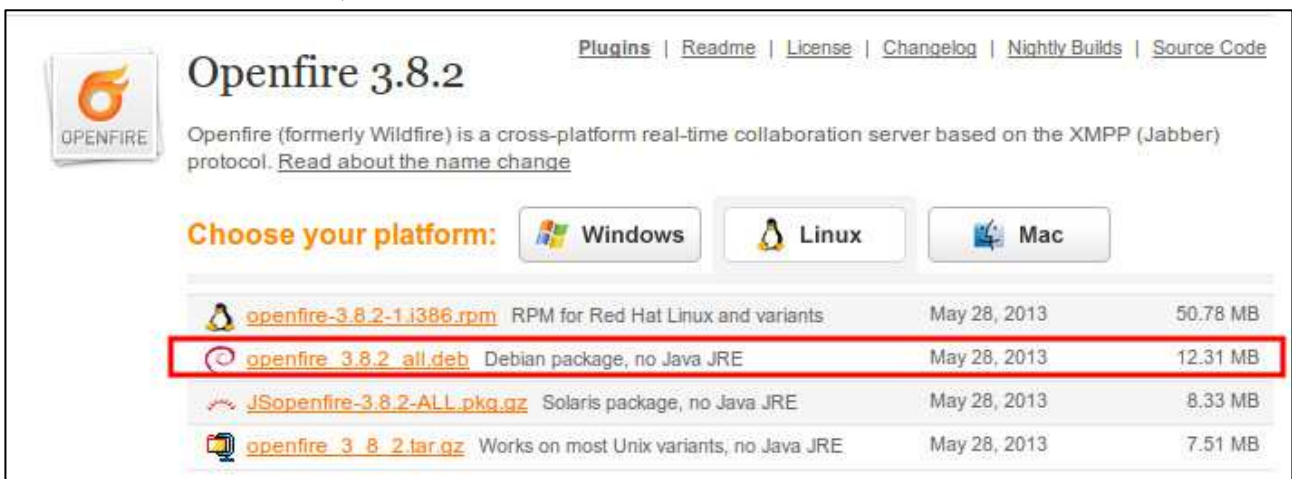


The screenshot shows the Ignite Realtime website. The navigation bar includes Home, Projects, Downloads, Community, Fans, Support, and About. The main content area features the "Open Realtime." header and a description of the community site. A circular diagram illustrates the relationship between Open Standards, Open Source, and Commercial Extensions. On the right, a "PROJECTS" sidebar lists various projects with "Download" buttons. The "Openfire 3.8.2" entry is highlighted with a red box.

Project Name	Version	Download
Openfire	3.8.2	Download
Spark	2.6.3	Download
SparkWeb	0.9.0	Download
Smack API	3.3.0	Download
Tinder API	1.2.2	Download
Whack API	1.0.0	Download
XIFF API	3.1.0	Download

Elegimos el paquete correspondiente:

(el paquete que se descarga en el ejemplo es el .deb para ser utilizado en DEBIAN o UBUNTU)



The screenshot shows the Openfire 3.8.2 download page. The page includes a navigation bar with links for Plugins, Readme, License, Changelog, Nightly Builds, and Source Code. The main content area features the Openfire logo and a description of the server. Below the description, there are three buttons for "Choose your platform": Windows, Linux, and Mac. A table lists the available packages for download, with the "openfire-3.8.2-all.deb" package highlighted in red.

Package Name	Description	Release Date	Size
openfire-3.8.2-1.i386.rpm	RPM for Red Hat Linux and variants	May 28, 2013	50.78 MB
openfire-3.8.2-all.deb	Debian package, no Java JRE	May 28, 2013	12.31 MB
JSopenfire-3.8.2-ALL.pkg.gz	Solaris package, no Java JRE	May 28, 2013	8.33 MB
openfire-3.8.2.tar.gz	Works on most Unix variants, no Java JRE	May 28, 2013	7.51 MB

Instalación:

- Buscamos la carpeta donde tenemos el instalador:

```
$ cd /home/usuario/instaladores/
```

- Instalamos el paquete .deb:

```
$ sudo dpkg -i openfire_3.8.2_all.deb
```

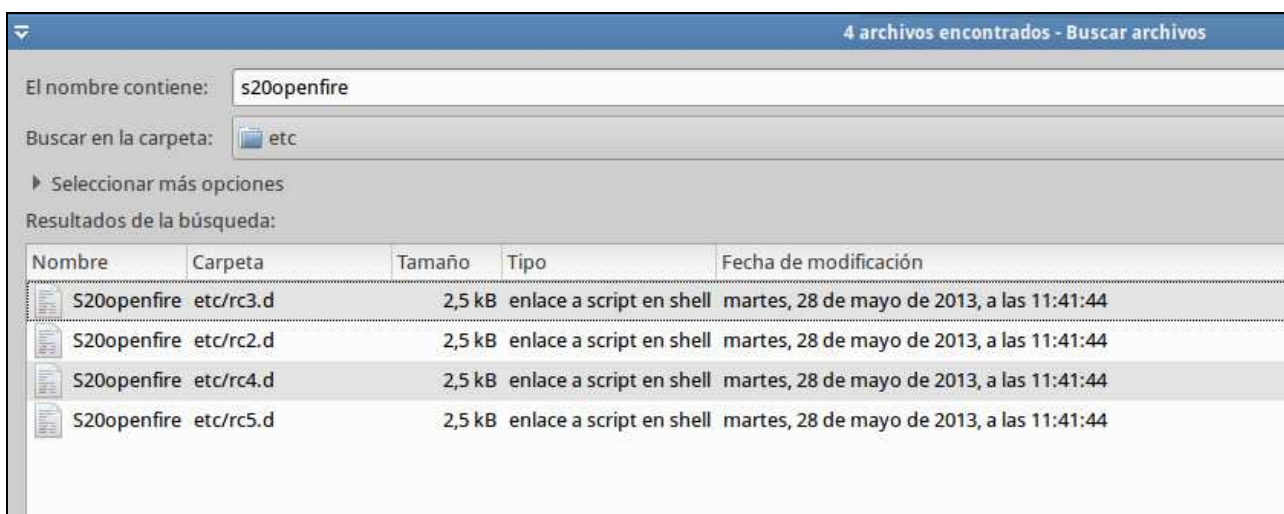
```
[sudo] password for usuario:  
Seleccionando paquete openfire previamente no seleccionado  
(Leyendo la base de datos ... 326757 ficheros o directorios instalados  
actualmente.)  
Desempaquetando openfire (de openfire_3.8.2_all.deb) ...  
Configurando openfire (3.8.2) ...  
Starting openfire: openfire.  
Procesando disparadores para ureadahead ...  
ureadahead will be reprofiled on next reboot
```

(también se probó realizar la instalación en una distribución OPENSUSE 11.4, con lo cual se descargó el paquete .rpm y se utilizó el comando `$yast -i openfire_3.8.2-1.i386.rpm`).

Una vez instalado el paquete, automáticamente se crea un script para administrar el servicio ubicado en:

```
/etc/init.d/openfire
```

Y agrega vínculos a dicho script en los siguientes runlevels: 2, 3, 4 y 5; para que se inicie automáticamente con el sistema.



4 archivos encontrados - Buscar archivos

El nombre contiene:

Buscar en la carpeta:

► Seleccionar más opciones

Resultados de la búsqueda:

Nombre	Carpeta	Tamaño	Tipo	Fecha de modificación
S20openfire	etc/rc3.d	2,5 kB	enlace a script en shell	martes, 28 de mayo de 2013, a las 11:41:44
S20openfire	etc/rc2.d	2,5 kB	enlace a script en shell	martes, 28 de mayo de 2013, a las 11:41:44
S20openfire	etc/rc4.d	2,5 kB	enlace a script en shell	martes, 28 de mayo de 2013, a las 11:41:44
S20openfire	etc/rc5.d	2,5 kB	enlace a script en shell	martes, 28 de mayo de 2013, a las 11:41:44

(aquí se observa, en la búsqueda, el link de arranque (S: start) hacia el script openfire, en los runlevels antes mencionados).

Comandos para iniciar, apagar y reiniciar el servicio:

- Iniciar

```
$ sudo invoke-rc.d openfire start
```

```
Starting openfire: openfire.
```

(en el caso de OPENSUSE seria `$ service openfire start`)

- Apagar

```
$ sudo invoke-rc.d openfire stop
```

```
Stopping openfire: openfire.
```

(en el caso de OPENSUSE seria `$ service openfire stop`)

- Reiniciar

```
$ sudo invoke-rc.d openfire restart
```

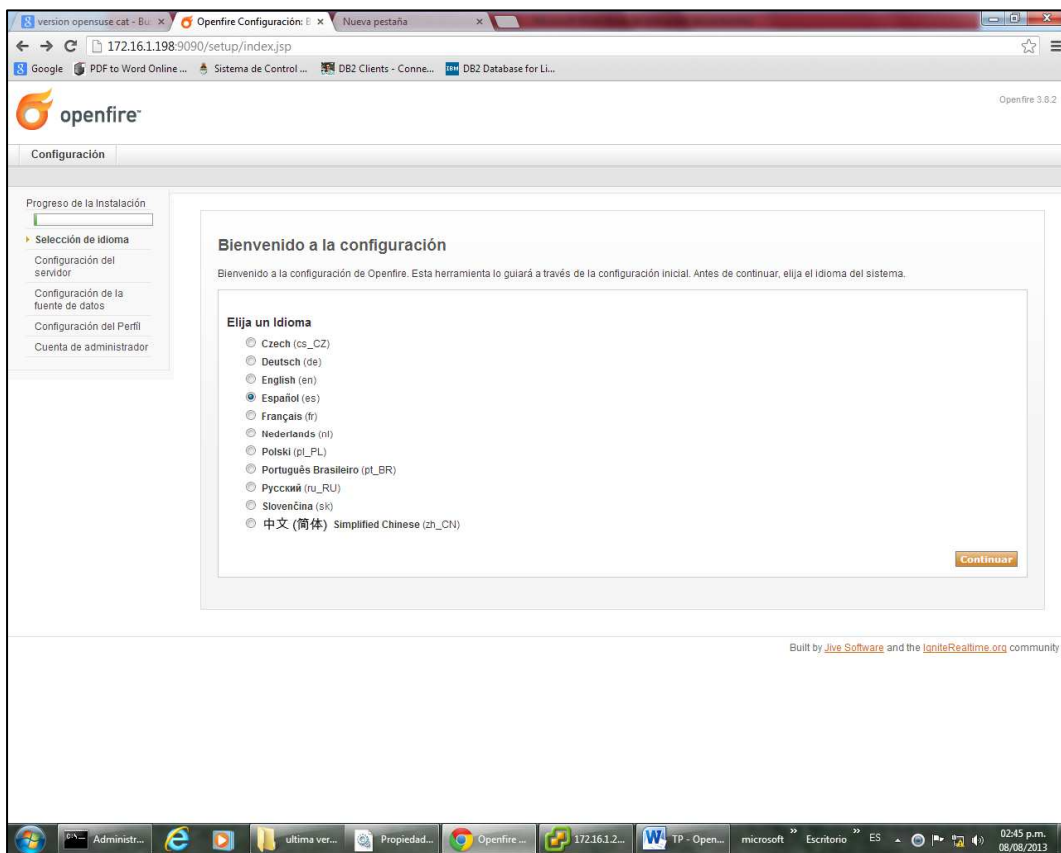
```
Restarting openfire: openfire.
```

(en el caso de OPENSUSE seria `$ service openfire restart`)

Configuración inicial:

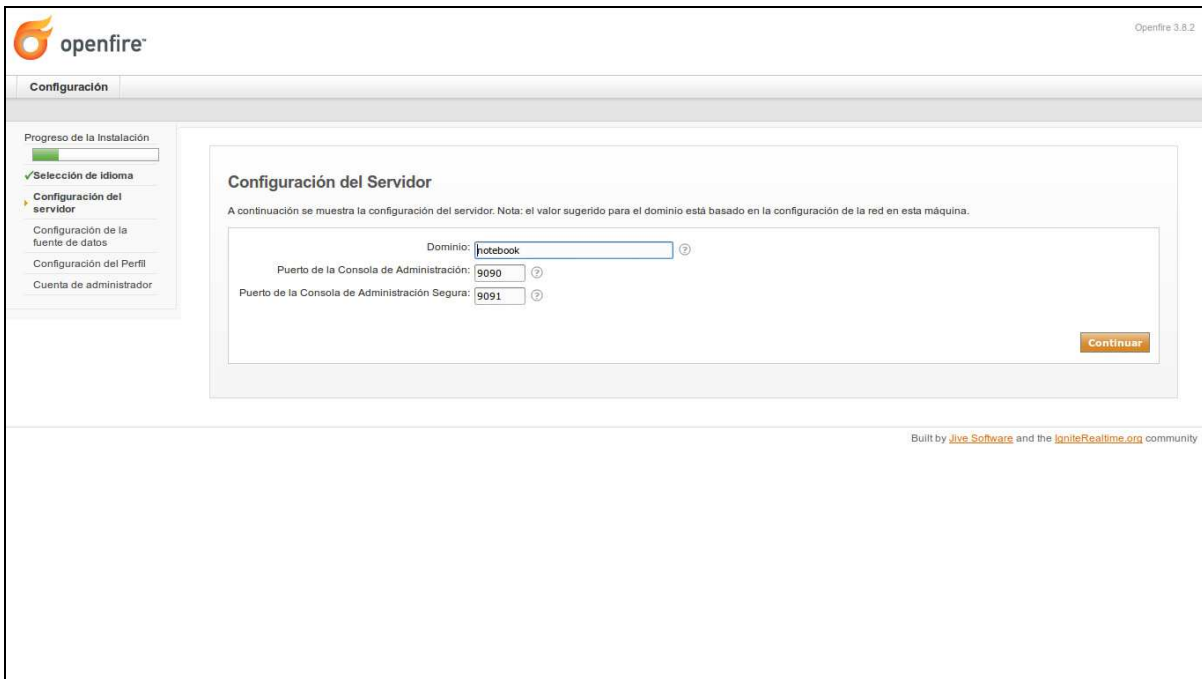
Para realizar la configuración inicial, accedemos mediante un navegador web a la consola de administración mediante la IP de nuestro servidor; ingresando por HTTP al puerto 9090. En nuestro caso, accedemos a: <http://172.16.1.198:9090>

- Selección del idioma



- Configuración del servidor

Esta pantalla permite seleccionar el nombre del dominio (en nuestro caso “notebook”) y los puertos de conexión a la consola de administración; tanto el puerto HTTP (9090) como el HTTPS (9091).

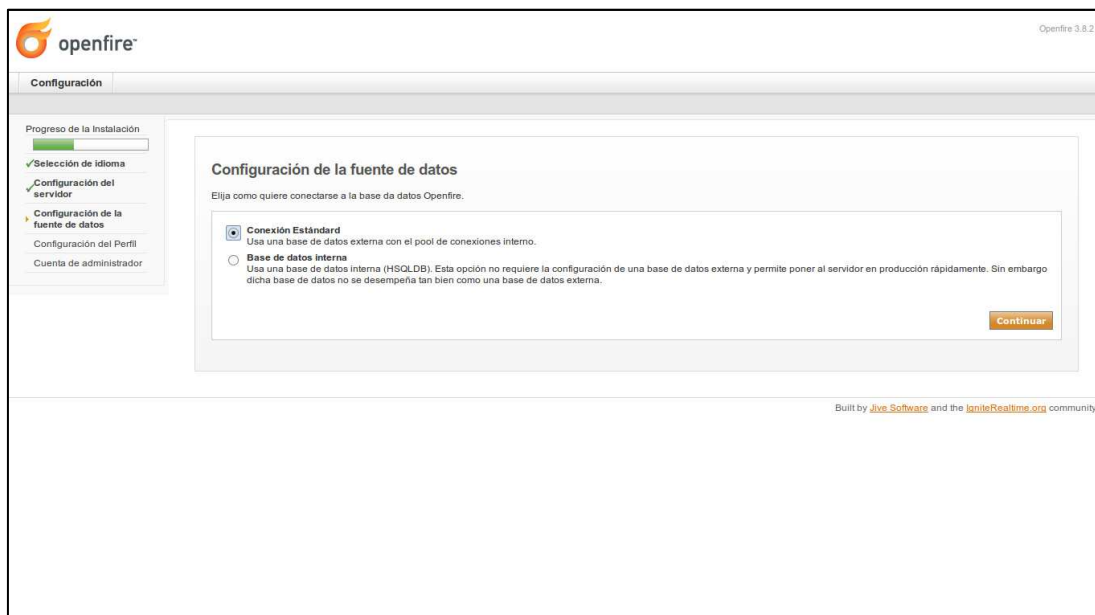


- Configuración de fuente de datos:

En esta pantalla debemos seleccionar qué tipo de base de datos va a utilizar el servidor para administrar los usuarios y grupos.

- Conexión estándar: Una base de datos externa con el pool de conexiones interno
- Base de datos interna: Una base de datos interna (HSQLDB)

(elegimos la opción **Conexión estándar**, con la cuál nos permitirá guardar los usuarios en una base de datos externa. Mediante esta opción seleccionaremos posteriormente una base de datos MySQL).



- Configuración de la fuente de datos – Conexión estándar:

- Drivers Predefinidos: MySQL
- Clase del Driver JDBC: com.mysql.jdbc.Driver
- URL de la Base de Datos:
jdbc:mysql://172.16.1.198:3306/db_openfire?rewriteBatchedStatements=true
 - La URL de la base de datos se compone del servidor (172.16.1.198), el puerto (3306) y el nombre de la base de datos (db_openfire).
- Nombre de usuario: Nombre de usuario de MySQL
- Contraseña: Contraseña de MySQL

(previamente debemos tener instalado en nuestro servidor el MySQL)

The screenshot shows the Openfire 3.8.2 web interface. The top left corner features the Openfire logo and the version number 'Openfire 3.8.2'. The main navigation bar is labeled 'Configuración'. On the left side, there is a 'Progreso de la Instalación' section with a progress bar and a list of steps: 'Selección de idioma', 'Configuración del servidor', 'Configuración de la fuente de datos' (which is currently active), 'Configuración del Perfil', and 'Cuenta de administrador'. The main content area is titled 'Configuración de la fuente de datos - Conexión Estándar'. It contains instructions and a note: 'Nota: La distribución de Openfire incluye scripts de configuración para las bases de datos más populares en [Openfire_HOME]/resources/database.' Below this, there are several input fields: 'Drivers Predefinidos' (a dropdown menu set to 'MySQL'), 'Clase del Driver JDBC' (a text box containing 'com.mysql.jdbc.Driver'), 'URL de la Base de Datos' (a text box containing 'jdbc:mysql://localhost:3306/db_openfire?rewriteBatchedStatements=true'), 'Nombre de usuario' (a text box containing 'root'), 'Contraseña' (a password field with four dots), 'Minimum Connections' (a text box containing '5'), 'Maximum Connections' (a text box containing '25'), and 'Tiempo de Vida de la Conexión' (a text box containing '1.0' followed by 'Days'). A note at the bottom right states: 'Nota: la conexión a la base de datos puede tardar entre 30 y 60 segundos.' A 'Continuar' button is located at the bottom right of the configuration area. At the very bottom of the page, it says 'Built by Jive Software and the IgniteRealtime.org community'.

- Seteos de Perfil

Esta opción permite definir cómo va a administrar los usuarios el servidor. Si los va a administrar internamente el propio **Openfire** o se conectará a un servicio de Directorio (ej. OpenLDAP, ActiveDirectory, etc). Elegiremos la opción **Por defecto**.

The screenshot shows the 'Seteos de Perfil' (Profile Settings) screen in the Openfire 3.8.2 installation wizard. On the left, a progress bar indicates the installation steps: 'Selección de idioma', 'Configuración del servidor', 'Configuración de la fuente de datos', 'Configuración del Perfil', and 'Cuenta de administrador'. The 'Configuración del Perfil' step is currently active. The main content area is titled 'Seteos de Perfil' and contains the instruction: 'Seleccione el sistema de usuarios y grupos a utilizar en Openfire.' Below this, there are three radio button options: 'Por defecto' (selected), 'Servidor de Directorio (LDAP)', and 'Integración con Clearspace'. Each option has a brief description of how users and groups are stored or retrieved. A 'Continuar' button is located at the bottom right of the options area. At the bottom of the screen, it says 'Built by [Jive Software](#) and the [IgniteRealtime.org](#) community'.

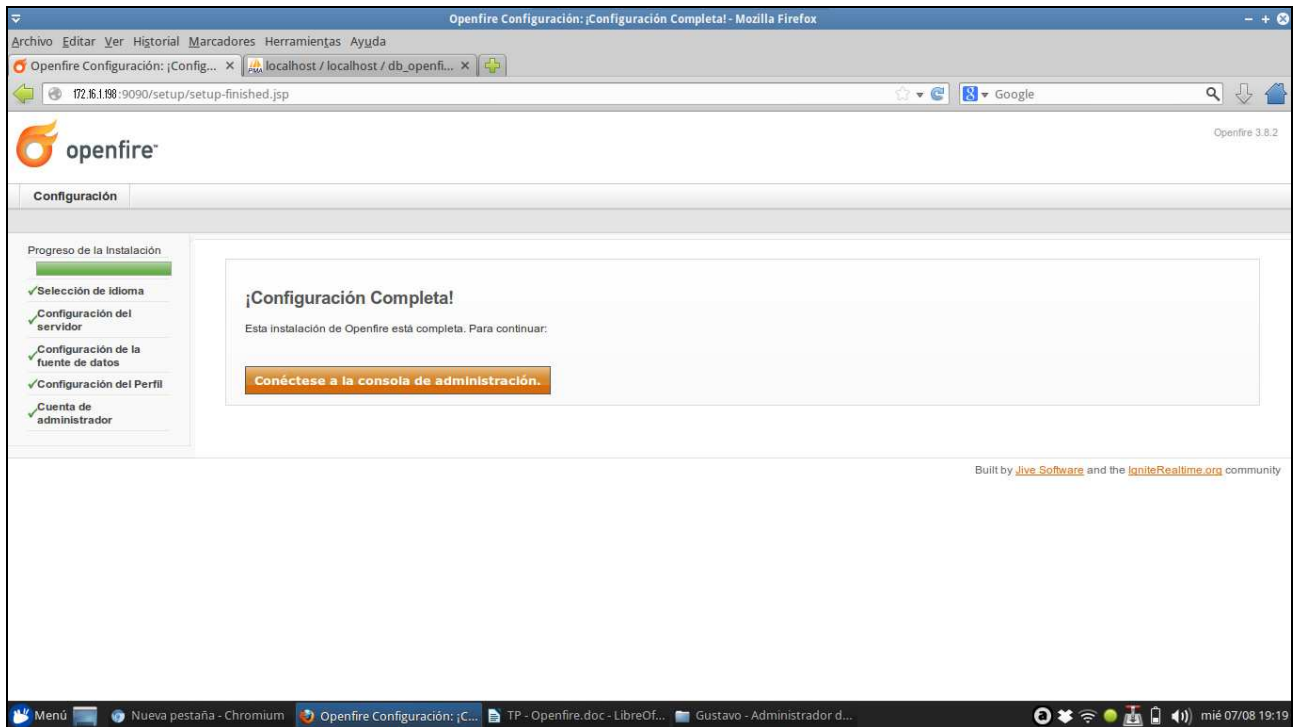
- Cuenta del Administrador

En esta pantalla debemos ingresar la dirección de email del administrador, y la clave de administración. El nombre de usuario por defecto es **admin**.

The screenshot shows the 'Cuenta del Administrador' (Administrator Account) screen in the Openfire 3.8.2 installation wizard. The progress bar on the left shows that 'Configuración del Perfil' is complete and 'Cuenta de administrador' is the current step. The main content area is titled 'Cuenta del Administrador' and contains the instruction: 'Ingrese la configuración para la cuenta del administrador del sistema (nombre de usuario "admin"). Es importante elegir una contraseña que no pueda ser adivinada fácilmente, por ejemplo que tenga al menos seis caracteres y una mezcla de letras y números. Puede saltar este paso si ya ha configurado su cuenta de administrador (no recomendado para usuarios inexpertos).' Below this, there are three input fields: 'Email del Administrador' (containing 'admin@gugler.com'), 'Nueva Contraseña', and 'Confirme la Contraseña'. A 'Saltar este paso' button is located to the left of the 'Continuar' button at the bottom right. At the bottom of the screen, it says 'Built by [Jive Software](#) and the [IgniteRealtime.org](#) community'.

- Fin de la instalación

Llegado a este paso la instalación se realizó correctamente; ya nos podemos conectar a la consola de administración.



Una vez finalizada la instalación podemos consultar la base de datos, donde veremos que el asistente de instalación creó todas las tablas necesarias para el funcionamiento del servidor:

Tabla	Acción	Filas	Tipo	Cotejamiento	Tamaño	Residuo a depurar
ofExtComponentConf	Examinar Estructura Buscar Insertar Vaciar Eliminar	0	InnoDB	latin1_swedish_ci	16.0 KB	-
ofGroup	Examinar Estructura Buscar Insertar Vaciar Eliminar	0	InnoDB	latin1_swedish_ci	16.0 KB	-
ofGroupProp	Examinar Estructura Buscar Insertar Vaciar Eliminar	0	InnoDB	latin1_swedish_ci	16.0 KB	-
ofGroupUser	Examinar Estructura Buscar Insertar Vaciar Eliminar	0	InnoDB	latin1_swedish_ci	16.0 KB	-
ofID	Examinar Estructura Buscar Insertar Vaciar Eliminar	4	InnoDB	latin1_swedish_ci	16.0 KB	-
ofMucAffiliation	Examinar Estructura Buscar Insertar Vaciar Eliminar	0	InnoDB	latin1_swedish_ci	16.0 KB	-
ofMucConversationLog	Examinar Estructura Buscar Insertar Vaciar Eliminar	0	InnoDB	latin1_swedish_ci	32.0 KB	-
ofMucMember	Examinar Estructura Buscar Insertar Vaciar Eliminar	0	InnoDB	latin1_swedish_ci	16.0 KB	-
ofMucRoom	Examinar Estructura Buscar Insertar Vaciar Eliminar	0	InnoDB	latin1_swedish_ci	48.0 KB	-
ofMucRoom	Examinar Estructura Buscar Insertar Vaciar Eliminar	0	InnoDB	latin1_swedish_ci	16.0 KB	-
ofMucRoom	Examinar Estructura Buscar Insertar Vaciar Eliminar	0	InnoDB	latin1_swedish_ci	48.0 KB	-
ofMucRoomProp	Examinar Estructura Buscar Insertar Vaciar Eliminar	0	InnoDB	latin1_swedish_ci	16.0 KB	-
ofMucService	Examinar Estructura Buscar Insertar Vaciar Eliminar	1	InnoDB	latin1_swedish_ci	32.0 KB	-
ofMucServiceProp	Examinar Estructura Buscar Insertar Vaciar Eliminar	0	InnoDB	latin1_swedish_ci	16.0 KB	-
ofOffline	Examinar Estructura Buscar Insertar Vaciar Eliminar	0	InnoDB	latin1_swedish_ci	16.0 KB	-
ofPresence	Examinar Estructura Buscar Insertar Vaciar Eliminar	0	InnoDB	latin1_swedish_ci	16.0 KB	-
ofPrivacyList	Examinar Estructura Buscar Insertar Vaciar Eliminar	0	InnoDB	latin1_swedish_ci	32.0 KB	-
ofPrivate	Examinar Estructura Buscar Insertar Vaciar Eliminar	0	InnoDB	latin1_swedish_ci	16.0 KB	-
ofProperty	Examinar Estructura Buscar Insertar Vaciar Eliminar	13	InnoDB	latin1_swedish_ci	16.0 KB	-
ofPubsubAffiliation	Examinar Estructura Buscar Insertar Vaciar Eliminar	1	InnoDB	latin1_swedish_ci	16.0 KB	-
ofPubsubDefaultConf	Examinar Estructura Buscar Insertar Vaciar Eliminar	2	InnoDB	latin1_swedish_ci	16.0 KB	-
ofPubsubItem	Examinar Estructura Buscar Insertar Vaciar Eliminar	0	InnoDB	latin1_swedish_ci	16.0 KB	-

(aquí se visualiza las tablas del servidor Openfire ingresando con PhpMyadmin).

Consola de administración:

Para ingresar a la consola de administración: <http://172.16.1.198:9090>, o sea la IP del servidor mas el puerto de comunicación, en nuestro navegador web:

En esta consola podremos configurar diversos parámetros del servidor como así también administrar los usuarios y grupos según veremos a continuación:



- Pantalla inicial de la consola de Administración

The image is a screenshot of a web browser displaying the Openfire Administration Console. The browser's address bar shows "172.16.1.198 :9090/index.jsp". The page has a navigation menu with tabs for "Servidor", "Usuarios/Grupos", "Sesiones", "Conferencias", and "Plugins". The "Servidor" tab is active, and the "Configuración del Servidor" sub-tab is selected. On the left, there is a sidebar menu with options like "Propiedades del Sistema", "Idioma y Tiempo", "Clustering", etc. The main content area is titled "Configuración del Servidor" and contains a message: "A continuación están las propiedades de este servidor. Presione en el botón 'Editar Propiedades' para cambiar al ser cambiadas." Below this, there are two sections: "Propiedades del Servidor" and "Ambiente".

Propiedades del Servidor	
Tiempo de Actividad del Servidor:	42 minutos -- started 07-ago-2013 19:23:15
Versión:	Openfire 3.8.2
Ruta al servidor:	/usr/share/openfire
Nombre del Servidor:	notebook

Ambiente	
Versión de Java:	1.7.0_25 Oracle Corporation -- OpenJDK Server VM
Servidor de Aplicaciones:	jetty/7.x.y-SNAPSHOT
Host Name:	notebook
SO / Hardware:	Linux / i386
Idioma / Huso Horario:	es / Hora de Argentina (-3 GMT)
Memoria de Java	<div style="width: 14%;"><div style="width: 14%;"></div></div> 87,38 MB of 625,81 MB (14,0%) used

Creación de usuarios y grupos:

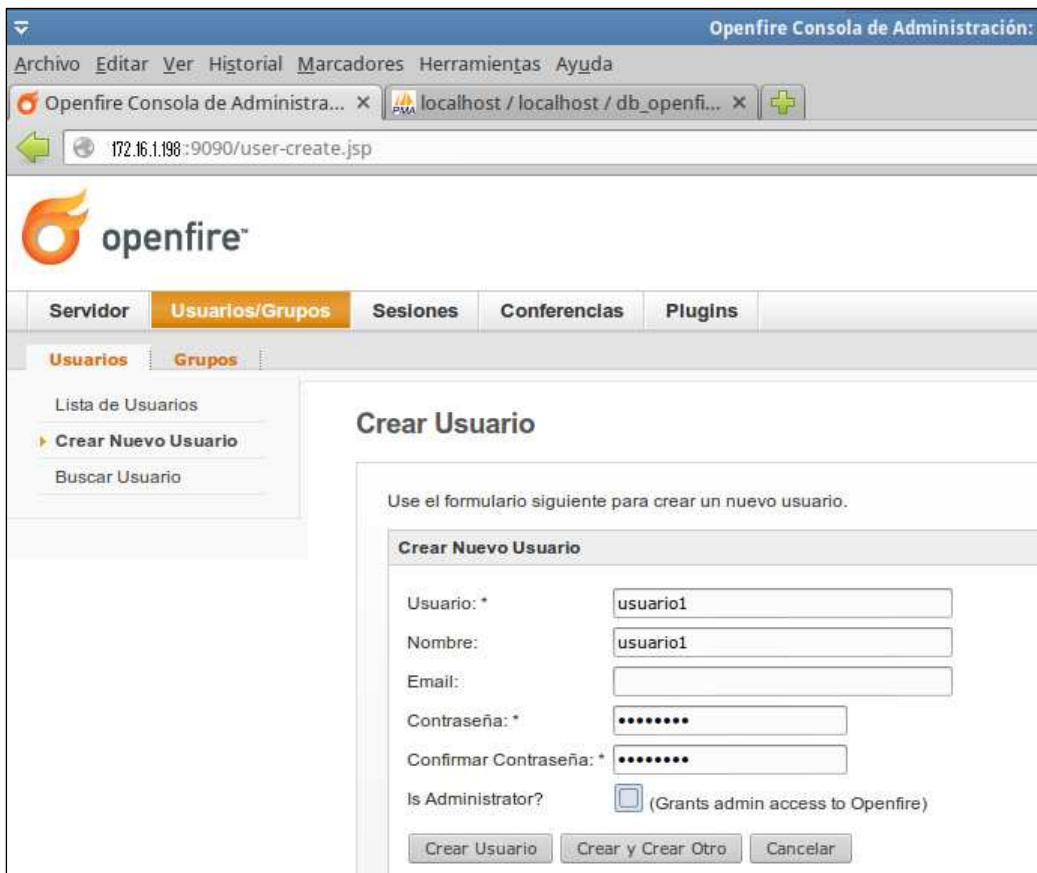
- Creación de usuarios



The screenshot shows the Openfire Admin Console interface. The browser title is "Openfire Consola de Administración: Lista de Usuarios - Mozilla Firefox". The address bar shows "172.16.1.198:9090/user-summary.jsp". The main navigation bar includes "Servidor", "Usuarios/Grupos", "Sesiones", "Conferencias", and "Plugins". Under "Usuarios/Grupos", there are sub-tabs for "Usuarios" and "Grupos". The "Usuarios" sub-tab is active, showing a sidebar with "Lista de Usuarios", "Crear Nuevo Usuario", and "Buscar Usuario". The main content area is titled "Lista de Usuarios" and displays a table with the following data:

Conectado	Usuario	Nombre	Creado
1	 admin 	Administrator	07-ago-2013

Seleccionando la pestaña **Usuarios/Grupos** y dentro de ella la pestaña **Usuarios** tenemos acceso a crear nuevos usuarios, en nuestro caso crearemos dos usuarios de prueba: **usuario1** y **usuario2**.



The screenshot shows the "Crear Usuario" form in the Openfire Admin Console. The browser title is "Openfire Consola de Administración: C". The address bar shows "172.16.1.198:9090/user-create.jsp". The main navigation bar is the same as in the previous screenshot. Under "Usuarios/Grupos", the "Usuarios" sub-tab is active, and the "Crear Nuevo Usuario" option is selected in the sidebar. The main content area is titled "Crear Usuario" and contains the following form fields:

Use el formulario siguiente para crear un nuevo usuario.

Crear Nuevo Usuario

Usuario: *

Nombre:

Email:

Contraseña: *

Confirmar Contraseña: *

Is Administrator? (Grants admin access to Openfire)

Buttons:

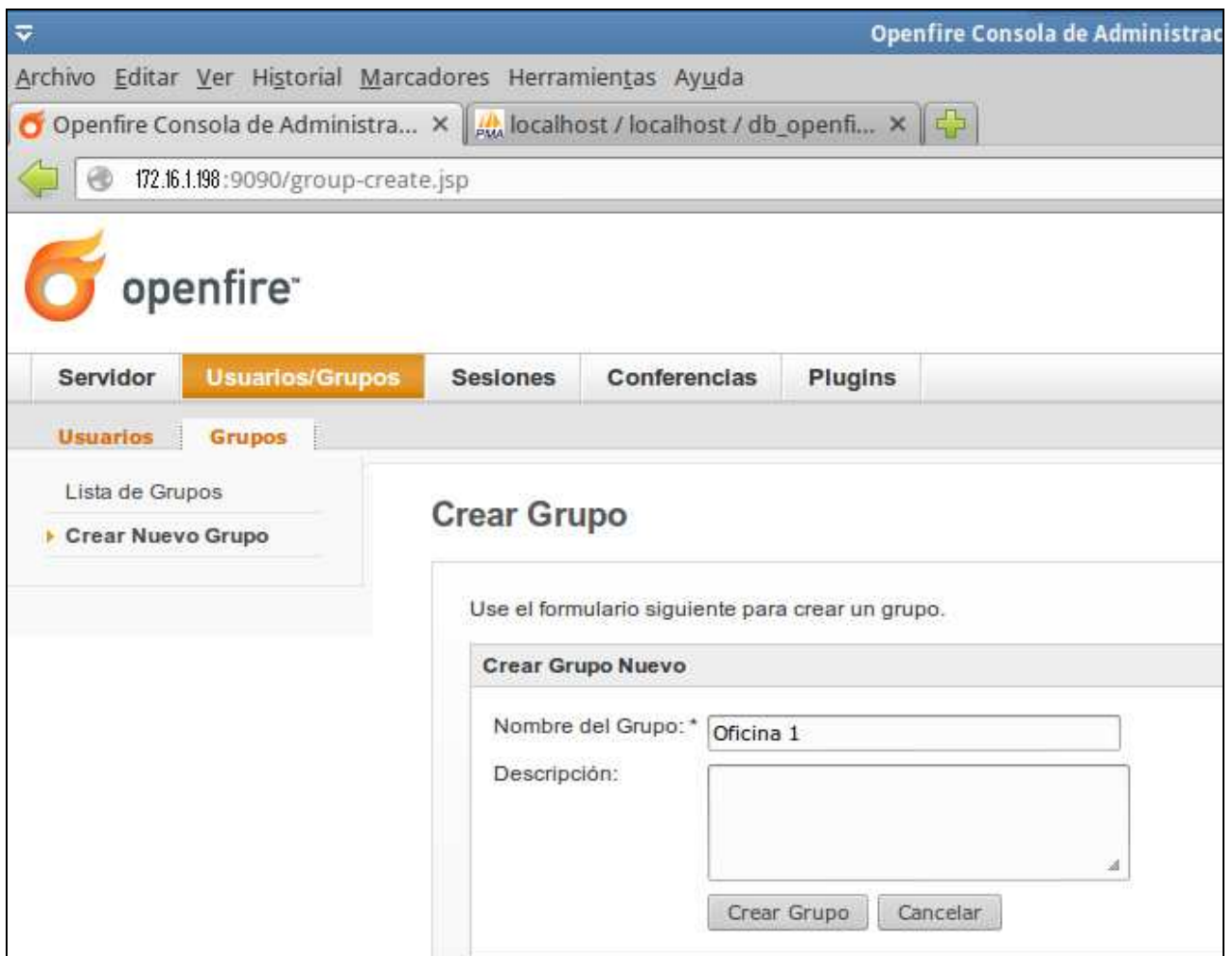
(aquí se observa la pantalla donde se da de alta un nuevo usuario)

- Creación de grupos

De manera similar se crean los grupos seleccionando la pestaña **Grupos** y la opción **Crear Nuevo Grupo**.



Crearemos dos grupos de prueba: **Oficina 1** y **Oficina 2**:



Una vez creado los grupos, nos ofrece la siguiente pantalla. En la misma podemos agregar usuarios a este grupo, en la sección **Members of this group**.

Oficina 1

Contact List (Roster) Sharing

You can use the form below to automatically add this group to users' contact lists. **When enabled**, this group will only appear in the contact lists of the group's members. When disabled, this group will not appear in the contact lists of any users. You can share this group with all users or members of other groups.

Disable contact list group sharing
 Enable contact list group sharing

Members of This Group

Use the form below to add users to this group. Once added, you will be able to remove them, or give certain users administrative rights over the group.

Agregar Usuario:

Nombre	Administrador	Borrar
No hay miembros en este grupo. Use el formulario anterior para agregar algunos.		

Una vez que asociamos el **usuario1** al grupo **Oficina 1** (podemos visualizarlo aquí),

Members of This Group

Use the form below to add users to this group. Once added, you will be able to remove them, or give certain users administrative rights over the group.

Agregar Usuario:

Nombre	Administrador	Borrar
 usuario1	<input type="checkbox"/>	<input type="checkbox"/>
<input type="button" value="Update"/>		<input type="button" value="Remove"/>

En la sección **Contact List (roster) Sharing** podemos habilitar el grupo actual para que se muestre automáticamente en la lista de contactos de los demás usuarios.

Para ello seleccionamos **Enable contact list group sharing** y completamos el campo con el nombre que queremos que aparezca el grupo en la lista de contactos de los demás usuarios.

Luego tildamos en **Share group with additional users** y también la opción **All Users**.

The screenshot shows the 'Oficina 1' settings page for 'Contact List (Roster) Sharing'. It includes a title 'Oficina 1', a sub-header 'Contact List (Roster) Sharing', and an introductory text: 'You can use the form below to automatically add this group to users' contact lists. We share this group with all users or members of other groups.' There are two radio buttons: 'Disable contact list group sharing' (unselected) and 'Enable contact list group sharing' (selected). Below this is a text input field containing 'Oficina 1'. A checked checkbox 'Share group with additional users' is followed by two radio buttons: 'All users' (selected) and 'The following groups:'. Under 'The following groups:', there is a list box containing 'Oficina 2'. At the bottom is a 'Save Contact List Settings' button.

Aquí vemos como quedaron creados los 2 grupos:

Lista de Grupos	
Total de Grupos: 2	Buscar por Nombre
Nombre	Miembros
1 Oficina 1	1
2 Oficina 2	1

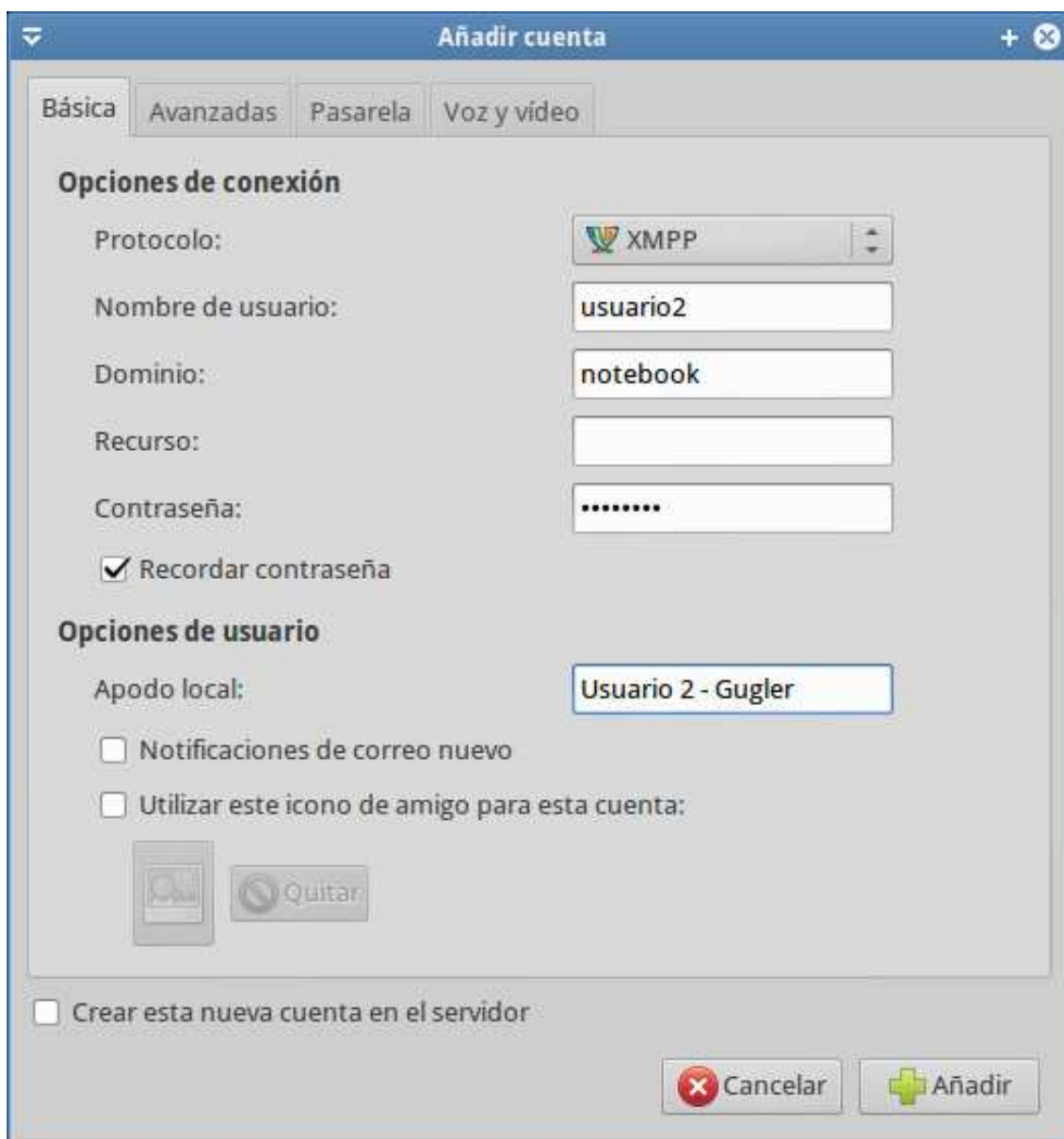
Conexión al servidor desde Pidgin:

Primeramente se debe descargar e instalar el cliente **Pidgin** (en este caso sobre una distribución XUBUNTU).

Luego:

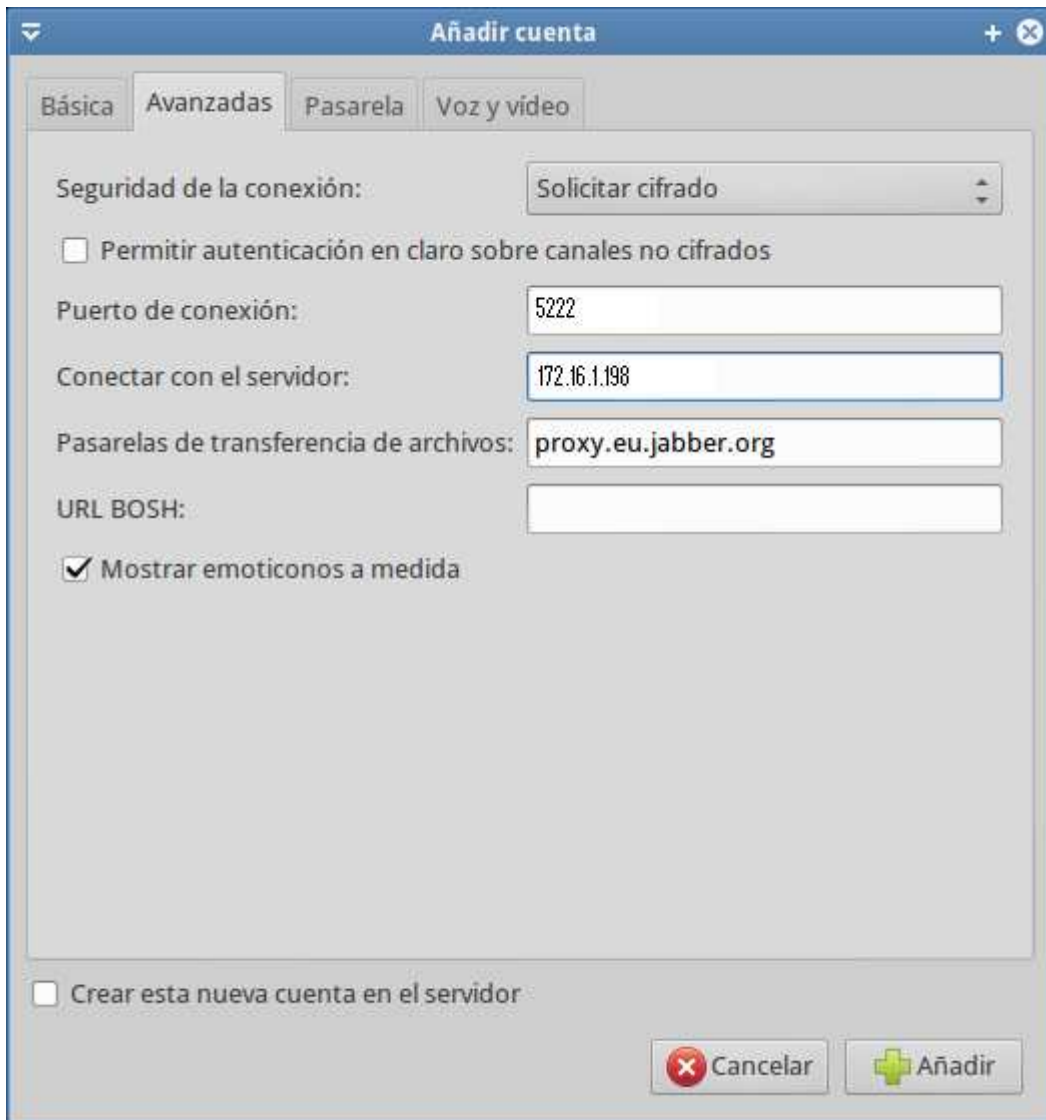
Añadimos la cuenta de usuario

Elegimos el protocolo XMPP, y completamos los datos de **usuario** y **dominio** (este dato del dominio lo habíamos ingresado al configurar inicialmente el servidor Openfire).



The image shows a screenshot of the 'Añadir cuenta' (Add account) dialog box in Pidgin. The window has a title bar with the text 'Añadir cuenta' and standard window controls. Below the title bar are four tabs: 'Básica', 'Avanzadas', 'Pasarela', and 'Voz y vídeo'. The 'Básica' tab is selected. The dialog is divided into two main sections: 'Opciones de conexión' and 'Opciones de usuario'. In the 'Opciones de conexión' section, there are fields for 'Protocolo' (set to XMPP), 'Nombre de usuario' (set to 'usuario2'), 'Dominio' (set to 'notebook'), and 'Recurso' (empty). There is also a 'Contraseña' field with masked characters and a checked checkbox for 'Recordar contraseña'. In the 'Opciones de usuario' section, there is a field for 'Apodo local' (set to 'Usuario 2 - Gugler') and two unchecked checkboxes: 'Notificaciones de correo nuevo' and 'Utilizar este icono de amigo para esta cuenta:'. Below these checkboxes are two buttons: a square icon button and a 'Quitar' button. At the bottom of the dialog, there is an unchecked checkbox for 'Crear esta nueva cuenta en el servidor'. At the bottom right, there are two buttons: 'Cancelar' (with a red X icon) and 'Añadir' (with a green plus icon).

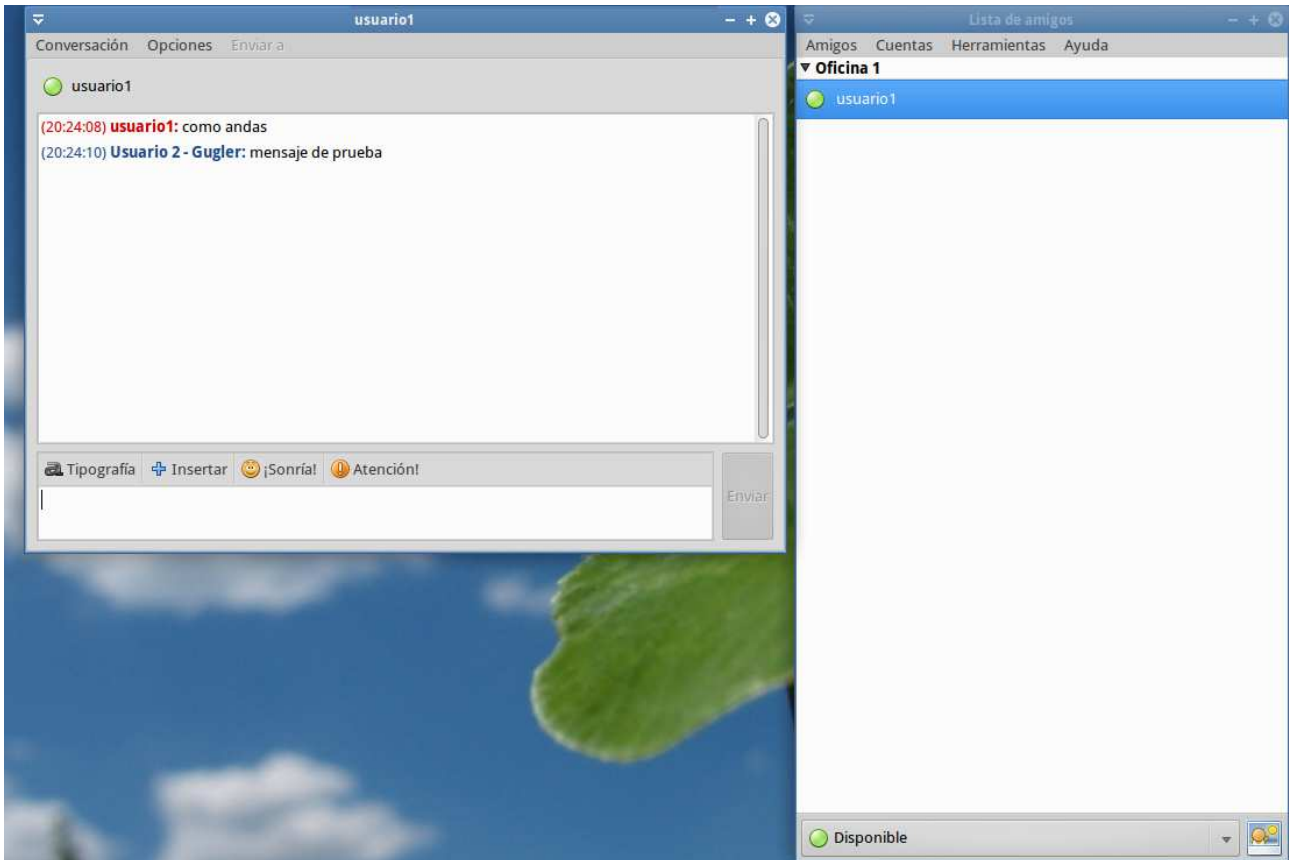
En la pestaña **Avanzadas**, debemos configurar la IP del servidor, en el campo **Conectar con el servidor** y el puerto de conexión queda por defecto 5222:



Una vez finalizada la configuración, al conectarnos nos consultará si aceptamos el certificado:



Y finalmente podemos ver en funcionamiento el servidor de mensajería:
Aquí se observa sobre la derecha la ventana con los contactos o “amigos”
en este caso el **USUARIO 1** que pertenece al grupo **OFICINA 1**.



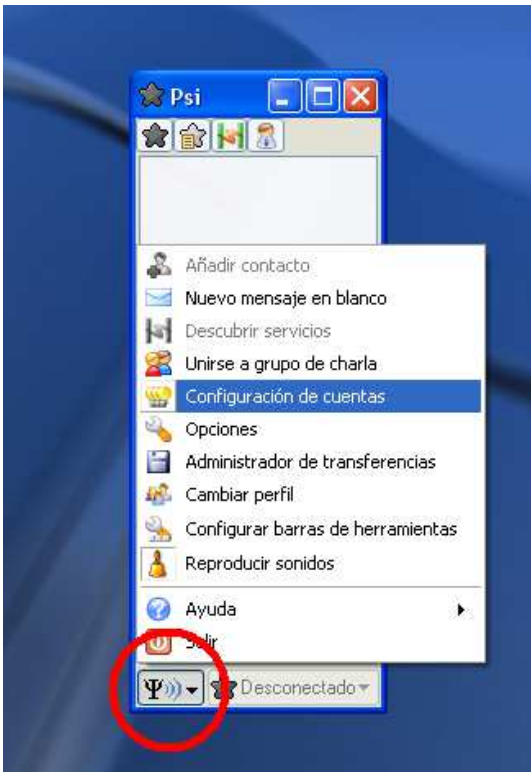
Sobre la izquierda se observa la ventana que contiene los mensajes que el usuario logueado localmente envía y recibe.

Conexión al servidor desde PSI:

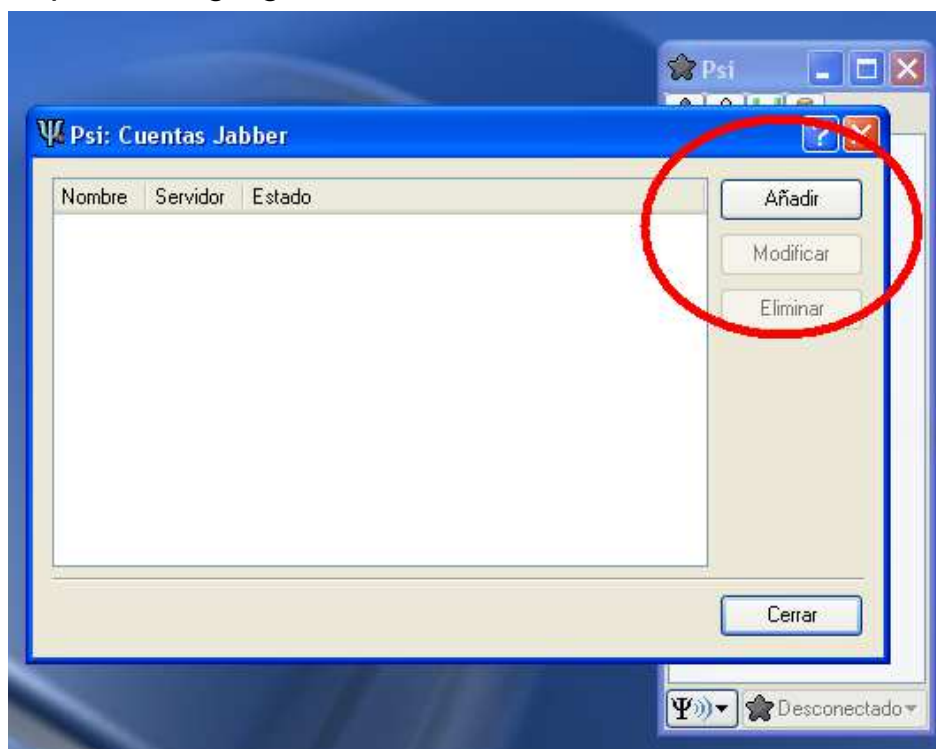
En Windows, optamos por utilizar el cliente PSI, dentro de los diversos clientes que soportan el protocolo.

Las pantallas de PSI son similares, así como la configuración, con respecto al cliente PIDGIN que vimos antes.

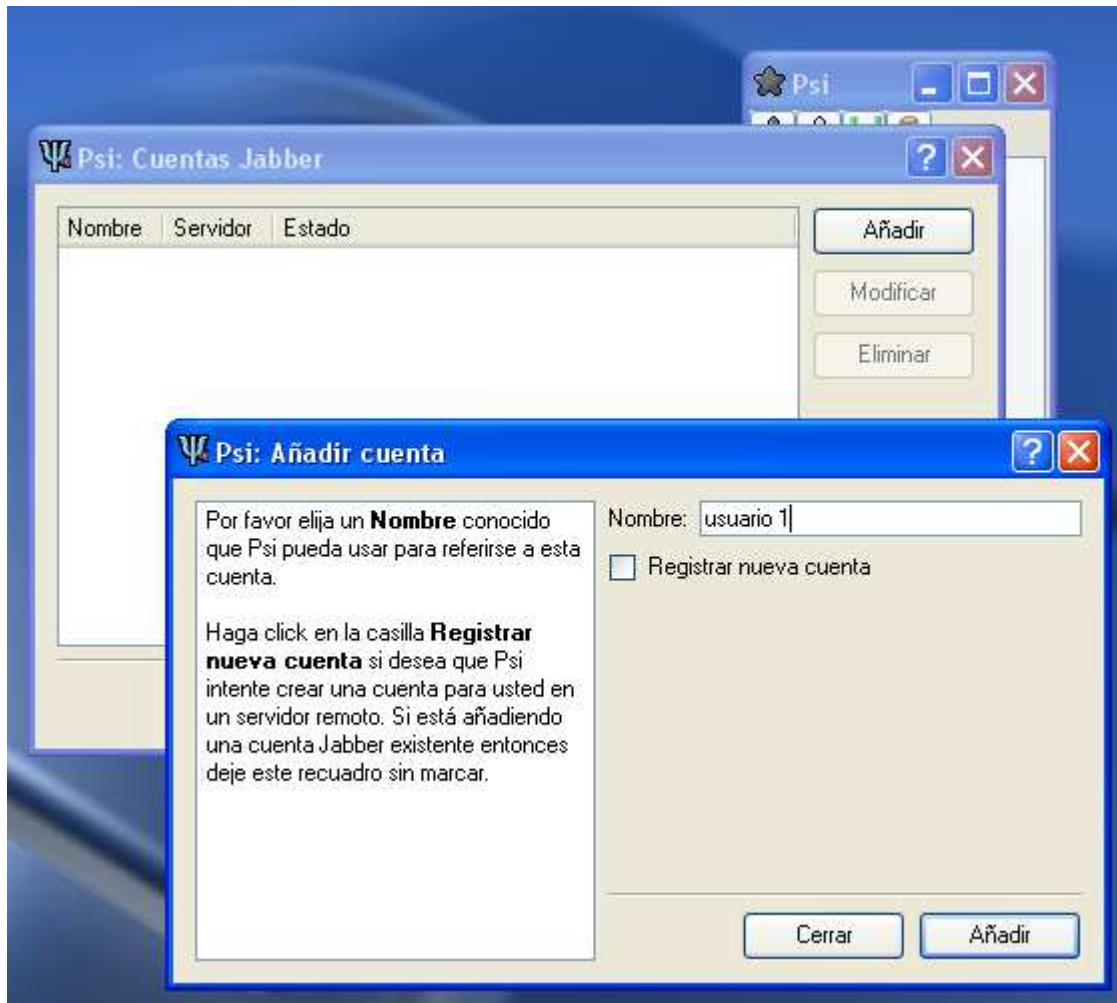
Veamos dicha configuración:



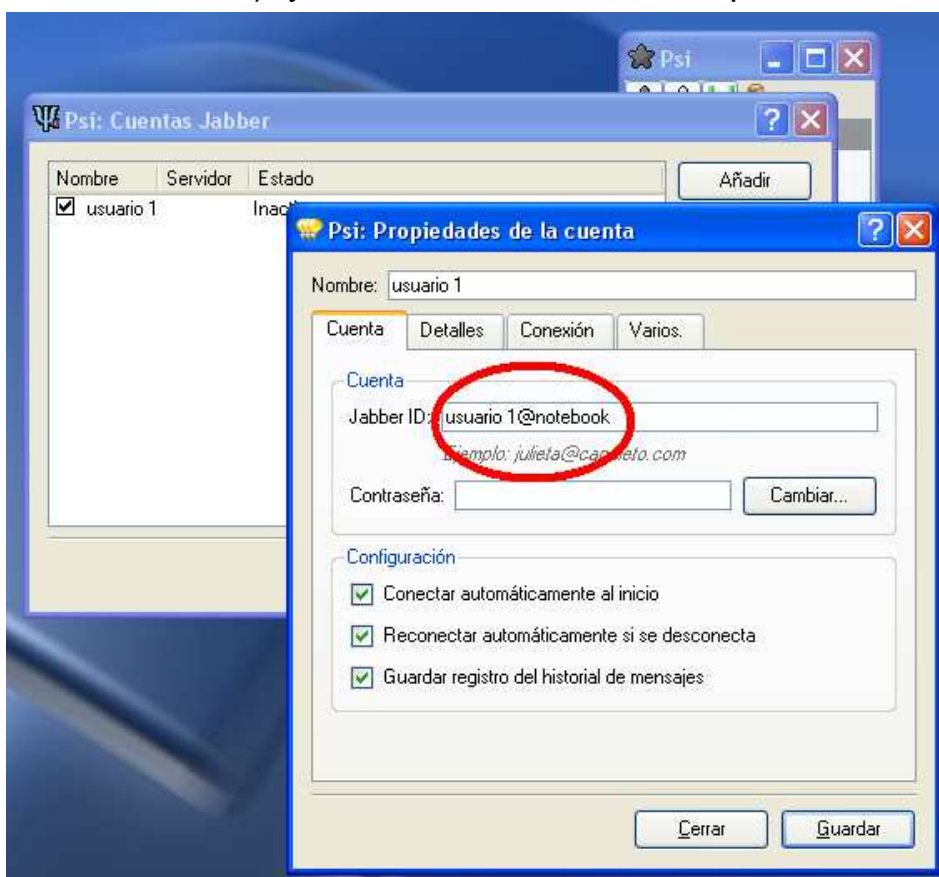
Una vez instalado el cliente PSI, aquí se ingresa a la ventana donde esta la opción que permite agregar nuevas cuentas de usuario.



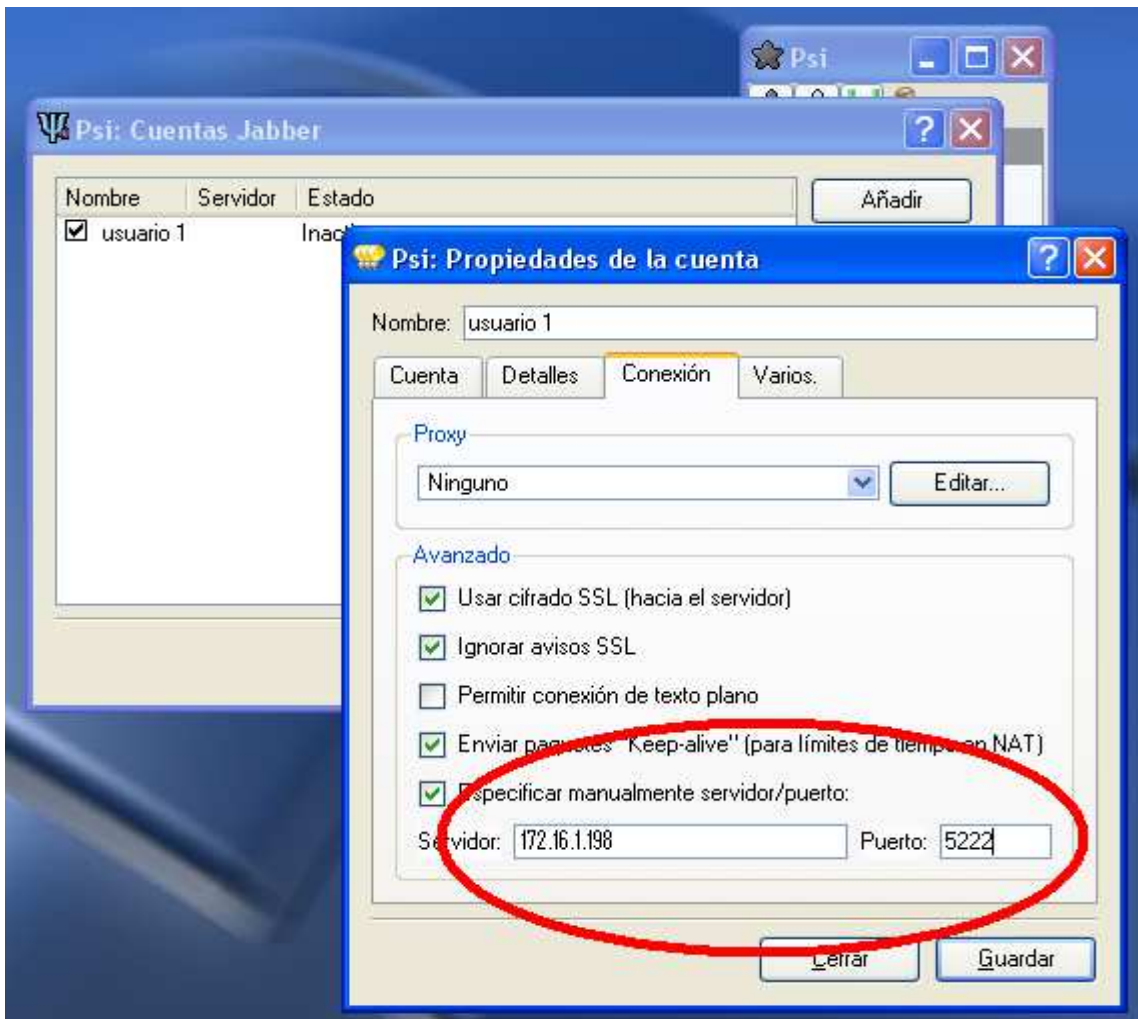
Este nombre es descriptivo y aparecerá en la lista de contactos,



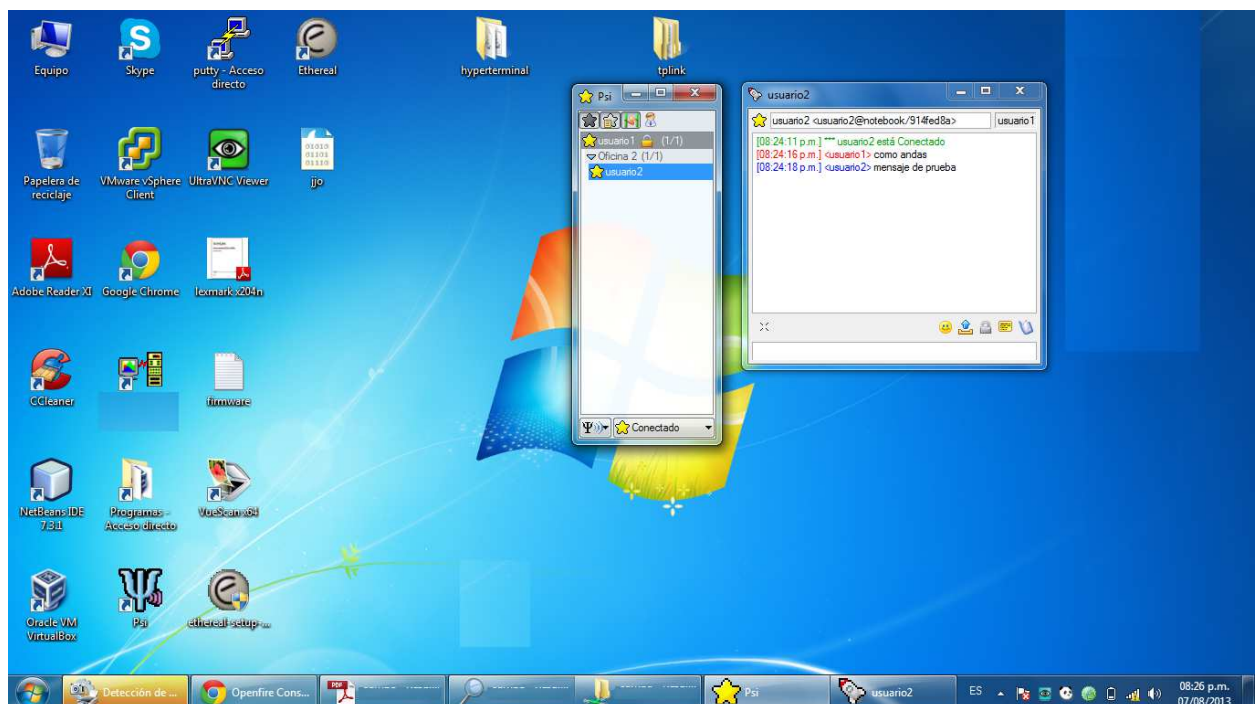
Aquí se observa como principal parámetro el Jabber ID, que se compone de el nombre del usuario (previamente creado desde la consola de administración del servidor) y el dominio del servidor Openfire.



Por ultimo se ingresa la IP del servidor Openfire y el puerto de comunicacion.



Finalmente, aquí se observa la ventana con los contactos y junto a ella la ventana con los mensajes salientes y entrantes.



Conclusion Final:

El servidor de mensajería Openfire es una herramienta muy útil dentro de nuestra red que agiliza la comunicación entre los usuarios.

Tiene características muy importantes como administración web, posibilidad de realizar conferencias, interacción con MSN, YAHOO Messenger, etc., transferencia de archivos, mensajes offline, compresión de datos, distintas formas de autenticación de los usuarios y mucho más.

Por último es de destacar la facilidad de la instalación del servidor, la posibilidad de elegir diferentes clientes (psi, pidgin, pandion, spark, etc) y conseguir plugins para adicionar funciones.

Enlaces consultados :

<http://es.wikipedia.org/wiki/Openfire>

<http://www.igniterealtime.org/downloads/index.jsp>

https://www.google.com.ar/url?sa=t&rct=j&q=&esrc=s&source=web&cd=11&ved=0CDMQFjAAOao&url=http%3A%2F%2Fwww.elrincondelprogramador.net%2Findex.php%2Fdocumentos%2Fdoc_download%2F2-servidor-jabber-en-windows.html&ei=RbYwUtWRN-niiwLI34HADg&usg=AFQjCNEN12FJ33H31u88YegCq76r3E3gEw

<http://drivemeca.blogspot.com.ar/2013/06/como-instalar-jabber-openfire-382-paso.html>

http://www.xombra.com/index.php?do=articulos¬a=156&t=#.UjC4AdJg_Ss

GNU Free Documentation License
Version 1.3, 3 November 2008

Copyright (C) 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
<http://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

0. PREAMBLE

The purpose of this License is to make a manual, textbook, or other functional and useful document "free" in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially.

Secondarily, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of "copyleft", which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

1. APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The "Document", below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as "you". You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A "Modified Version" of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications

and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, LaTeX input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The "Title Page" means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, "Title Page" means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The "publisher" means any person or entity that distributes copies of the Document to the public.

A section "Entitled XYZ" means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as "Acknowledgements", "Dedications", "Endorsements", or "History".) To "Preserve the Title" of such a section when you modify the Document means that it remains a section "Entitled XYZ" according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

2. VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

3. COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's

license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material.

If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

4. MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

A. Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

B. List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

C. State on the Title page the name of the publisher of the Modified Version, as the publisher.

D. Preserve all the copyright notices of the Document.

E. Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

F. Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

G. Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

H. Include an unaltered copy of this License.

I. Preserve the section Entitled "History", Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled "History" in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

J. Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the "History" section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

K. For any section Entitled "Acknowledgements" or "Dedications", Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

L. Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

M. Delete any section Entitled "Endorsements". Such a section may not be included in the Modified Version.

N. Do not retitle any existing section to be Entitled "Endorsements" or to conflict in title with any Invariant Section.

O. Preserve any Warranty Disclaimers.

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as

invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice.

These titles must be distinct from any other section titles.

You may add a section Entitled "Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties--for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

5. COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number.

Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled "History" in the various original documents, forming one section Entitled "History"; likewise combine any sections Entitled "Acknowledgements", and any sections

Entitled "Dedications". You must delete all sections Entitled "Endorsements".

6. COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

7. AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an "aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit.

When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form.

Otherwise they must appear on printed covers that bracket the whole aggregate.

8. TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4.

Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license

notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements", "Dedications", or "History", the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

9. TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

10. FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See <http://www.gnu.org/copyleft/>.

Each version of the License is given a distinguishing version number.

If the Document specifies that a particular numbered version of this License "or any later version" applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

11. RELICENSING

"Massive Multiauthor Collaboration Site" (or "MMC Site") means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A "Massive Multiauthor Collaboration" (or "MMC") contained in the site means any set of copyrightable works thus published on the MMC site.

"CC-BY-SA" means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

"Incorporate" means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is "eligible for relicensing" if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

Copyright (c) YEAR YOUR NAME.

Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.3 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts.

A copy of the license is included in the section entitled "GNU Free Documentation License".

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the "with...Texts." line with this:

with the Invariant Sections being LIST THEIR TITLES, with the Front-Cover Texts being LIST, and with the Back-Cover Texts being LIST.

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.