# **Enable Private and Independent Communication Using XMPP Protocol**

(Installation and Setup of OpenFire Server)



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OpenFire is a Real-Time Collaboration (RTC) Server that is used for instant messaging. Openfire allows different users to work together, and see changes, in real time. This is especially useful for chat applications as it will display messages to all users as they are sent, received and processed in the server instead of using other methods, such as push and get, that sends and receives new changes over a specified period of time.

XMPP is a protocol that allows the exchange of data, and when used in conjunction with OpenFire, a chat application is formed.

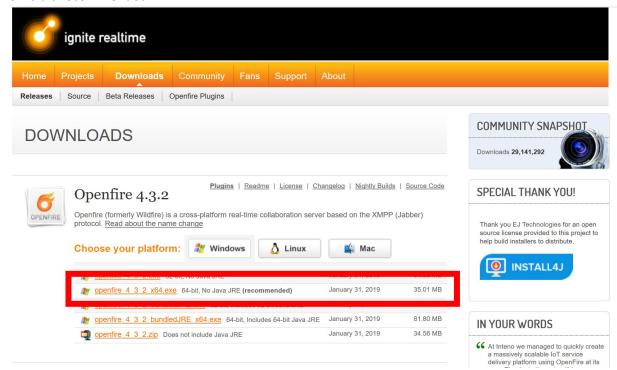
The following are the steps to download, install and setup OpenFire:

#### Before we begin:

- It is assumed that the user is connected to a network. The connection is required to set up OpenFire
- The user has admin access to the device OpenFire is being installed onto.
- The user has internet access to download the program.
- At the time this tutorial was written the latest version of OpenFire is 4.3.2

#### Step 1: Download

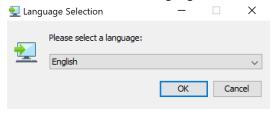
- Browse to the Ignite Realtime website (https://www.igniterealtime.org/downloads/index.jsp#openfire)
- Find the latest OpenFire Server. Current is OpenFire 4.3.x. Click on the correct platform.
- From the dropdown menu, select the correct option for your operating system. Note: OpenFire 64-bit is recommended



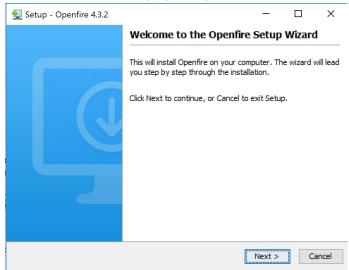
Wait for the download to finish and run the program.

#### **Step 2: Installation Process**

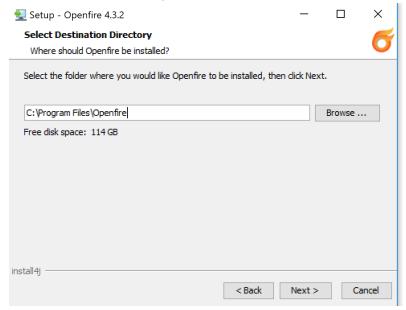
- Choose the installation language and click on the OK button



- Click next once the setup opens up



- Accept the terms and click on Next
- Select the folder where Openfire will be install and click next



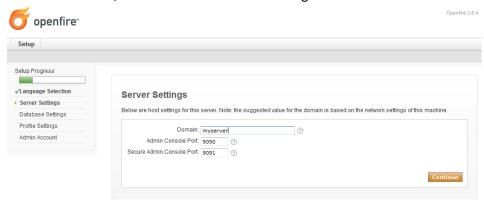
- Select the shortcuts wanted to install and click next
- Wait for the application to finish installing and click on Finish

#### Step 3: Setting up OpenFire

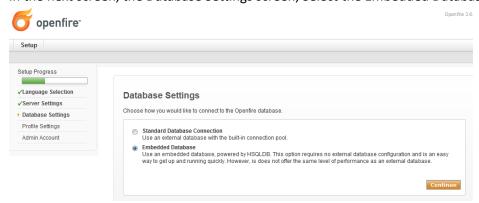
- Open the internet browser and type the server name. By default the server name is "localhost:9090"
- Choose a language and click Continue



In the next screen, leave the default Server Settings values

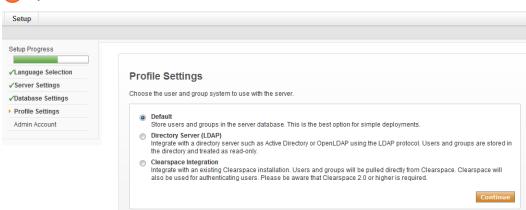


- In the next screen, the Database Settings screen, Select the Embedded Database option

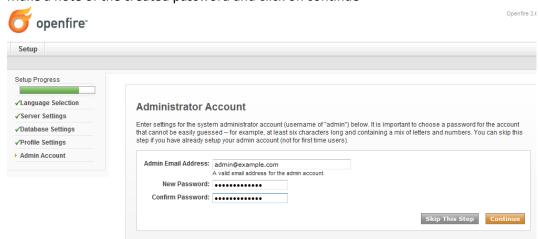


- In the Profile Settings screen, select Default as the option and click continue



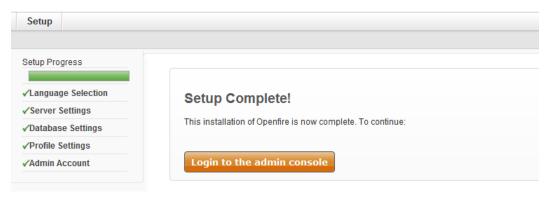


- In the final step, in the Administrator Account step. Enter a valid email address and a password. Make a note of the created password and click on continue



 The Setup Complete screen will show. Click on the button Login to the admin console. This will redirect you to the login screen.

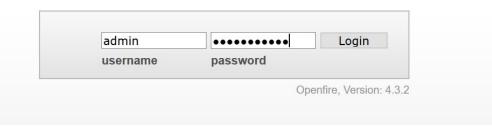




For the login, enter admin as the username and enter the password created. Click Login



## **Administration Console**



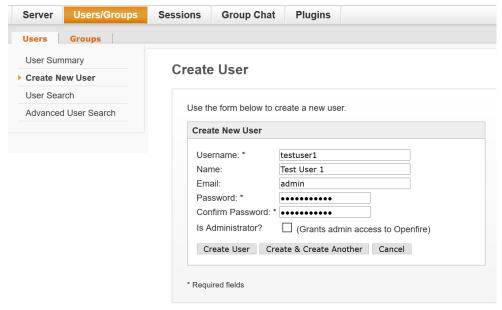
#### Step 4: Configuring the test users

- Once logged in, click on users/groups





 Click on Create New User and enter the credentials for the test user. Make sure the "Is Administrator?" option is uncheck unless an admin user is being created.



- Repeat step 4 to create as many users as needed.
- Openfire server is now setup and ready to use.

### **Work Cited**

[1] https://www.igniterealtime.org/projects/openfire/