

# Bridge Chat Installation Manual

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## Web Client Installation

Installing the Bridge Chat web client is simple, and involves adding the JavaScript source file, div element, and required CSS styles to your website's HTML file. Follow the steps below to complete the client installation, after which you will be able to install either the Custom Server or the XMPP proxy, depending on your choice of configuration.

In order to complete the first stage of client installation, follow the steps outlined below:

1. Locate the /src/BridgeChat-Client-dist/bridgeChat.js JavaScript file.
2. Copy the bridgeChat.js file to an accessible location on your web server.
3. Add the following line to the header of the HTML file on which BridgeChat will run:
  - a. `<script src=".<accessible path>/js/bridgeChat.js"></script>`
4. Add the additional line to the HTML header:
  - a. `<link rel="stylesheet" type="text/css" href=".<path>/css/bridge-style.css">`
5. Add the following line to the body of your HTML file, where you would like the BridgeChat application to reside:
  - a. `<div id="bridgechat-container"></div>`
6. Open the bridgeChat.js file and edit the variable titled 'proto' to either of the following two possible values, depending on which server option you've decided to choose:
  - a. "custom", or
  - b. "XMPP"
7. Edit the 'domain' and 'port' variables to point to the IP address and port of the deployed Custom or Proxy server, described in their respective areas below.
8. If you are using the "custom" protocol, you are done. Otherwise you must also modify both the 'webDomain' and 'chatRoomDomain' variables.
  - a. The 'chatRoomDomain' variable must match the domain of the XMPP server being used, 'jabber.org' for example.
  - b. The 'webDomain' refers to the XMPP chat room which all users will first enter when joining from your website. Use the same value across multiple web page or sites to allow users to share communication. This value can be set to anything, as long as it is unique within the XMPP server.

*Note: The web domain should enforce secure transmission via HTTPS to ensure that all communication is encrypted and secure. While the Bridge Chat application provides security of its' own, HTTPS is required on your website to ensure your users are not vulnerable to privacy breaches or worse.*

## Custom Server Installation

The custom server provides the client with a quick and simple interface without the need for any additional configuration. This package includes a ready to use distributable package which can be run on any web server which supports Java 6 or higher. The Bridge Chat Custom Server can be installed through the following steps:

1. Locate the /src/BridgeChat-Server-dist.zip file.
2. Copy and extract the BridgeChat-Server-dist.zip file on your local web server.
3. Move to the newly created /dist/ directory.
4. Execute the command:
  - a. `java -jar BridgeChat-Server.jar <port>`
5. The server should now be running, and a properly configured client should be able to connect using any user name.

## XMPP Proxy Installation

The XMPP Proxy Server is required to translate between the client's WebSocket connector and the regular TCP Sockets used by most XMPP servers. The proxy is easy to install by following these instructions:

1. Locate the /src/BridgeChat-Proxy-dist.zip file.
2. Copy and extract the BridgeChat-Proxy-dist.zip file on your local web server.
3. Move to the newly created /dist/ directory.
4. Execute the command:
  - a. `java -jar BridgeChat-Proxy.jar <local port> <XMPP domain> <XMPP port>`
5. The proxy server will now be running, and listening to local host on port 8888 by default. Users can now use a properly configured client to connect to the XMPP server specified by the XMPP domain and XMPP port parameters entered above.

*Note: Users will need to register with the XMPP server before being able to use the client, as automatic registration is not yet supported.*