Enabling secure connection between client and server

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Generating a key pair using Java Keytool

To enable a secure connection between the client and the server, you need to generate two keystore files, each in their own keystores:

- KeyStore.jks (contains key and certificate) server-side upload it using Teamwork Cloud Admin console.
- cert.jks (contains public certificate) client-side place it in the <*Application folder*>*lcerts* directory.

To generate a key pair

- 1. Go to your Java directory and open the folder named bin.
- 2. Enter keytool -genkey -alias MyDomain -keyalg RSA -keystore KeyStore.jks -keysize 2048 and press Enter.

(L) can give any name to MyDomain and KeyStore.jks.

- 3. Enter a password for your keystore and answer the questions asked. A certificate with a key is generated and placed into the keystore.
- 4. To extract a certificate without a key, type keytool -export -alias MyDomain -file certificate.cer -keystore KeyStore.jks and press Enter.
- To place a certificate into another keystore, e.g. cert.jks, type keytool -import -alias MyDomain -file certificate.cer -keystore cert.jks and press Ent er.

🙆 can give any name to cert.jks. However, by default, the tool searches for this exact name.

Two keystore files are generated: one for the server (**KeyStore.jks**) and one for the client (**cert.jks**). You can now proceed to enable a secure connection between the client (modeling tool) and the server (Teamwork Cloud).

Enabling a secure connection to Teamwork Cloud

To enable a secure connection to Teamwork Cloud, you must enable TLS (Transport Layer Security) on the Teamwork Cloud Admin's **Server Settings** page. This page also allows you to disable the option if you do not need to use a secure connection (see the following figure). You can always enable it whenever necessary.

Secure connection			
Use TLS	-		
Port * 10002			
Keystore file * KeyStore.jks	±×		
Certificate is required to enable a secure connection			
Password *			
Keystore password			
	SAVE		



Enabling TLS protocol in Teamwork Cloud (when the option is turned on, the color changes to orange).

Self-signed ILS certificate	warning (Transport Layer Security) as	the security protocol to	keep any information	you enter on Tea	mwork Cloud Admin
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Setting up TLS in Teamwork Cloud Admin it as being valid (self-signed certificate). Unlike a TLS certificate issued by a valid

To Canable as secure room Coeption cusing stipe at \$128 oto coll in the server.

Truste to be the isenting stappin bedded into popular browsers such as Firefox and Chrome. They are used to verify all TLS certificates that the browsers encounter. It a certificate is not some by one of these roots, the browsers display an error or warning message stating that it is untrusted. Thus, when 3. Type in the port, upload a **Java Key Store** file, and type the password. you Ary Glick Says the server via the self-signed one, you will get an error or warning in your web browser. The following figure below shows an example

At this point, Syoer will be able to stood hear to be an work Cloud from the modeling tool via the TLS connection.

Se To					
	the default port for a secure connection is 10002. If you are using and	ther port for a secure connection instead of the default, append the port number			
Re	Example Server hame in the Login dialog.	< vato			
Login to a server Enter the user name, password, and server address to log in to the server.		prmation from 10.1.1.106 (for example, ERR_CERT_AUTHORITY_INVALID			
Login Single Sign On		rity incidents to Google. <u>Privacy policy</u>			
	User name: user1				
	Server name: 10.1.1.106:9000	Back to safety			
 ✓ Auto Login to Server ✓ Use Secured Connection (SSL) 		1.106 ; its security certificate is not trusted by			
	OK Cancel Help attacker intercepting your connection.	ay be caused by a misconfiguration or an			
	Proceed to 10.1.1.106 (unsafe)				

A self-signed TLS certificate error in Google Chrome.

This warning tells you the TLS certificate installed on your server was self-signed and cannot be verified by the browser. You may simply let your browser accept it and continue using the server. If you are using Firefox, you can accept it and the error or warning will no longer appear. If you are using Chrome, the error or warning will appear every time you try to access your server.