Enabling secure connection between client and server

On this page:

- Generating a key pair using Java Keytool
- Enabling a secure connection to Teamwork Cloud
- Setting up TLS in TWCloud Admin
- Setting up client-side TLS

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 TWCloud 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.

(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.
- 5. To place a certificate into another keystore, e.g. cert.jks, type keytool -import -alias MyDomain -file certificate.cer -keystore cert.jks and press Enter.

(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 TWCloud, you must enable TLS (Transport Layer Security) on the TWCloud 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.

the default port used for a secure connection is 10002.

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 TWCloud (when the option is turned on, the color changes to orange).

Cloud Admin uses ILS (Transport Layer Security) as the security protocol to keep any information you enter on TWCloud Admin private and secure.

By default, your server generated a TLS certificate and signed it as being valid (self-signed certificate). The self-signed TLS certificate allows a secure

Setting up TLS in TWCloud Admin the authenticity of the server like the TLS certificate issued by a valid Certificate Authority (CA) does.

that the browthe sentingstapp! a certificate is not signed by one of these roots, the browsers display an error or warning message stating that it is 2. Change sliders position to the right to enable the TLS protocol, untristed - Tus, when you trivit access the server via t

At this point, you will be able to connect to TWCloud from the modeling tool via the TLS connection.

Setting up client-side TLS

To enable a secure connection using the TLS protocol on the client-side

- 1. Locate the client certificate manually.
- 2. Create a folder named certs under the modeling tool install folder. Place the following files into the newly created certs folder:
 - A client certificate named cert.jks.
 - A file named cert.pass wherein the certificate password is typed.

Related pages

- Changing the SSL certificate
- Managing HTTPS and SSL on server