Configuring TWCloud Admin

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Teamwork Cloud features the new Webapp Platform-based TWCloud Admin Console. As such, it is a standalone application that communicates with Teamwork Cloud using the REST API.

Configuration of its communication with Teamwork Cloud is located in <installation_directory>/WebAppPlatform/shared/conf/webappplatform.properties.

In this section, we will review the various settings which you may have to adjust in order to establish communications between the admin console and Teamwork Cloud. Changes to these settings are only necessary if one is not using a default installation.

```
# # Authentication server properties
# # Authentication server address
# http/https depending on setup of Authentication server.
authentication.server.uri=https://IP_ADDRESS:8555/authentication
```

Authserver access are accessing via a hostname or FQDN, especially if you are using a signed certificate, use the applicable FQDN or hostname instead of the IP address.

```
# feamwork Cloud server properties

# twc.admin.username=Administrator

twc.admin.password=Administrator

# Teamwork Cloud server address

# the thick the transfer of the tra
```

TWCloud access credentials for twc.admin.username and twc.admin.password match those of a user with administrative privileges.

If you are accessing via a heatname or FODN consciolly if you are using a signed contificate, use the applicable FODN or heatname instead of the ID.

Ou change any of the configuration parameters, you will need to restart the WebApp service.

If you have configured TWCloud to use HTTP or to run on a different port, make sure that the URI reflects the correct values.

Setting server protocol

By default, and in order to enforce a higher level of security, the admin console is accessed via HTTPS. In order to change the mode of operation to HTTP (not recommended), various configuration changes must be made.

The default port for the admin console is 8443. In this example, we will make the changes necessary to run over HTTP on the default port of 8443.

 $\label{thm:conf} The \ WebApp\ server\ configuration\ is\ located\ in\ \textit{<installation_directory>/WebAppPlatform/conf/server.xml.}$

The following section:

```
<Connector executor="tomcatThreadPool"
    port="8080" protocol="HTTP/1.1"
    connectionTimeout="20000"
    redirectPort="8443" />
```

needs to be edited to:

```
<Connector executor="tomcatThreadPool"
    port="8443" protocol="HTTP/1.1"
    connectionTimeout="20000" />
```

The changes which we implemented consist of changing the port from 8080 to 8443, and removing a redirect that would route to the handler on port 8443.

Since we have configured this connector to listen on port 8443, we now need to remove the existing connector handler on port 8443.

The following section:

needs to be commented out as follows:

By default, for security reasons, we have established a security policy requiring access to be encrypted. To disable this, we need to edit <installation_direct ory>/WebAppPlatform/conf/web.xml. This section is located at the very bottom of the file.

The following section:

needs to be edited as follows:

In the next example, we will configure the Admin Console to run HTTPS on a different port (8444).

The following code section:

needs to be edited as follows:

As can be seen, the only change is the definition of the port number, which changed from 8443 to 8444.

Livou change either the protocol or the port from the default, you need to edit authentication.redirect.uri.whitelist, located in <installation_directory>
//AuthServer/config/authserver.properties accordingly.

Changing the SSL certificate

By default, the Admin console uses a self-signed certificate that is provided with the build. This is the same keystore used by TWCloud and Authserver, and is located in <install directory>/configuration/keystore.p12.

If a signed certificate is being used to replace the self-signed certificate, we need to update configurations in three files: <installation_directory>/configuration/application.conf, <installation_directory>/AuthServer.config/authserver.properties and <installation_directory>/WebAppPlatform/conf/server.

To list the aliases of the using the command:

```
<path_to_java_bin_directory>/keytool -v -list -keystore <keystorefile>
```

For this example, the keystore file is the default **keystore.p12**. The command is being executed from the same directory where **keystore.p12** is located. When the command is executed, you will be prompted for the keystore password. For our self-signed certificate (**keystore.p12**), it is *nomagic*.

```
# <path_to_keytool>/keytool -v -list -keystore keystore.p12
Enter keystore password:
Keystore type: PKCS12
Keystore provider: SUN

Your keystore contains 1 entry

Alias name: teamworkcloud
Creation date: Oct 30, 2018
Entry type: PrivateKeyEntry
Certificate chain length: 1
Certificate[1]:
Owner: CN=10.254.254.56
```

You will execute this command on whichever certificate you will be using. In this case, the alias is **teamworkcloud** and the certificate was generated for an **Owner** with a common name (CN) of 10.254.254.56, which happens to be a self-signed certificate for a machine with IP 10.254.254.56. Your keystore may contain multiple certificates with different aliases. You will identify the relevant one based on the Owner information. Once we have this information, we can proceed with the configuration.

For this example, we will assume that our new certificate is named **server.p12**, the keystore password is "*mypassword*" and the alias is "*myserve*r", and that we will export the certificate into a file named **myserver.crt**.

First, copy it to the <install_directory>/configuration/directory.

Next, we need to export the certificate so that we can import it into the truststore (<teamwork_cloud_install_directory>/AuthServer/config/truststore.jks):

```
<path_to_keytool>/keytool -export -keystore <teamwork_cloud_install_directory>/configuration/server.p12 -
storepass mypassword -alias myserver -file <teamwork_cloud_install_directory>/AuthServer/config/truststore
/myserver.crt
```

Now we will proceed to edit application.conf.

```
ssl {
          keystorePath = "configuration/server.p12"
          keystoreType = "pkcs12"
          keystorePassword = "mypassword"
          keyPassword = "mypassword"
}
```

Next, we proceed to edit authserver.properties.

```
server.ssl.key-store=../configuration/server.pl2
server.ssl.key-store-type=PKCS12
server.ssl.key-store-password=mypassword
server.ssl.key-password=mypassword
server.ssl.key-alias=myserver
```

Next, we need to delete the truststore (<teamwork_cloud_install_directory>/AuthServer/config/truststore.jks), so that it will be recreated upon restarting authserver.

Finally, we will edit server.xml.

Lease note the addition of "certificateKeyAlias". This is not always necessary, but we do it for good measure. Tomcat will load the first certificate in the

keystore. If there are multiple certificates, the alias is necessary in order to load the correct certificate.

After completing the configuration changes, all 3 services (Teamwork Cloud, Authserver, and Webapp) must be restarted.