**Configuring the SSL in Talend (TAC)**

Approval

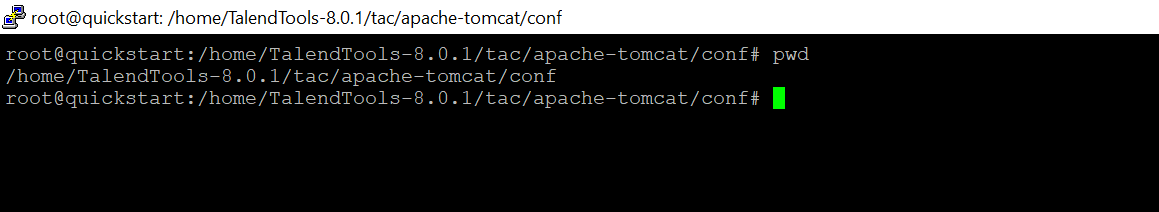
| Signatures by each signatory indicate their acceptance that this document is complete and accurate to the best of his/her knowledge per responsibilities outlined in this document and as guided by approved methodologies and established procedures. | | |
| --- | --- | --- |
| Team Lead:  Artha Emp |  | **Date:** |
| Project Manager:  Artha Emp | **Pavan Valluri** | **Date:** |
| Talend Developer:  Artha Emp | **Omkar patil** | **Date:** |

(NOTE:- Ask the client for the .pfx file)

**\*\*Applying SSL/TLS certificate for TAC\*\***

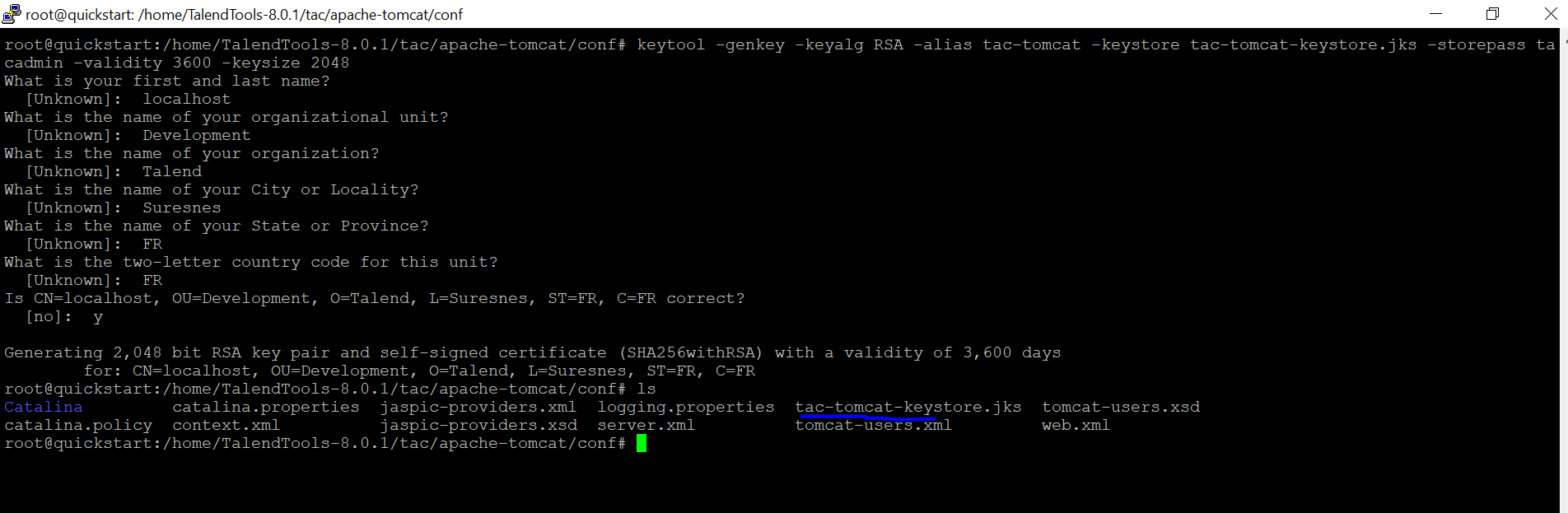
<https://help.talend.com/en-US/installation-guide-linux/8.0/configure-tls-ssl-in-talend-administration-center>

**Step1: - cd /opt/Talend-8.0.1/tac/apache-tomcat/conf**



**Step2:- Generate the key using the command**

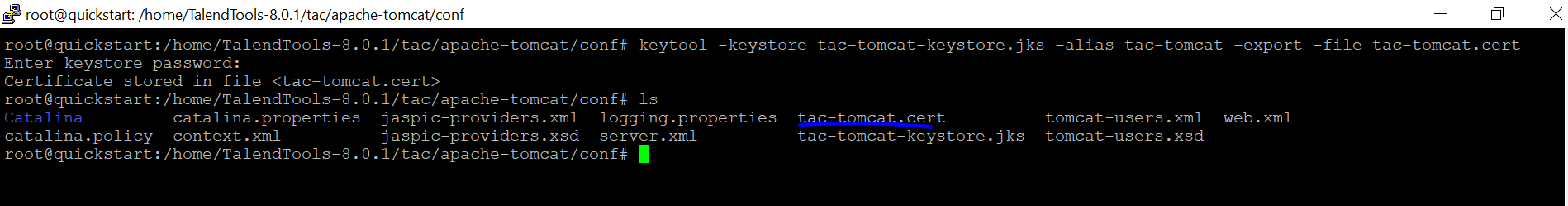
keytool -genkey -keyalg RSA -alias tac-tomcat -keystore tac-tomcat-keystore.jks -storepass tacadmin -validity 3600 -keysize 2048



**Step3: - Add the keystore certificate to Apache Tomcat truststore.**

#export certificate into .cert file

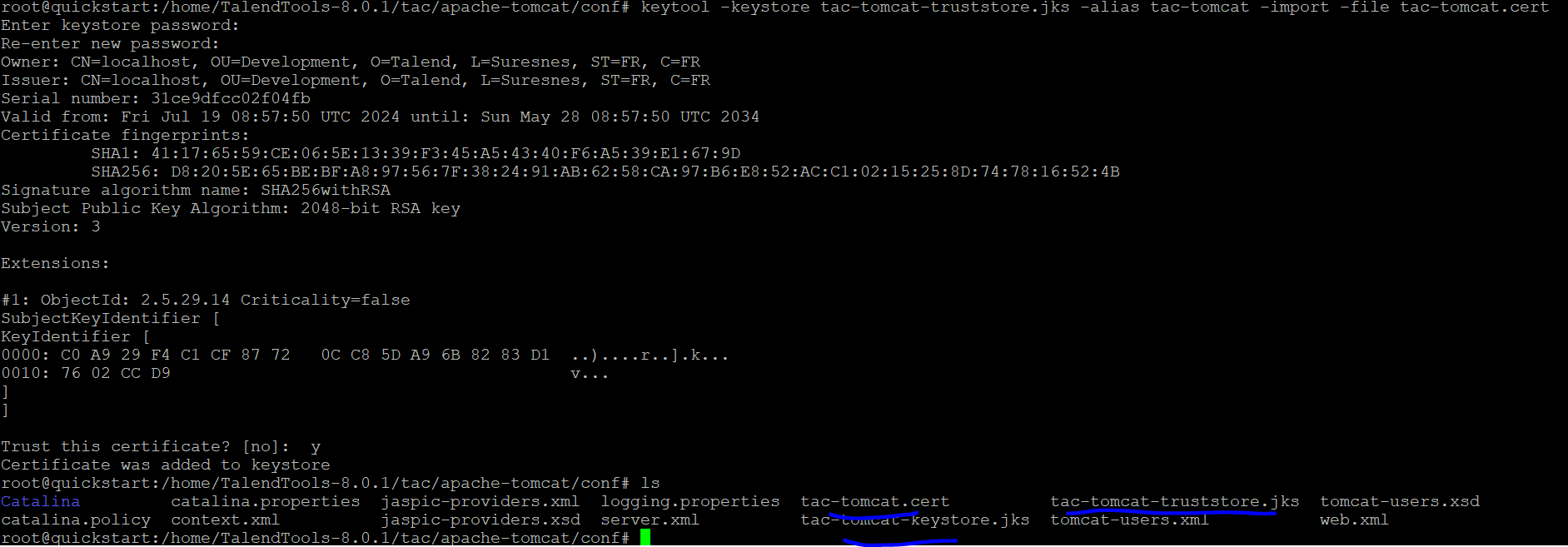
keytool -keystore tac-tomcat-keystore.jks -alias tac-tomcat -export -file tac-tomcat.cert



#import certificate into jks

keytool -keystore tac-tomcat-truststore.jks -alias tac-tomcat -import -file tac-tomcat.cert

Password: - tacadmin



### **Step4: - Tomcat Configuration**

1. Shut down Tomcat.
2. Navigate to the Tomcat **conf** sub-folder.
3. Edit the **server.xml** file.
4. Locate and uncomment the SSL-enabled HTTP connector (it is commented out by default).
5. Modify the connector config\* as follows:

Add the below lines in server.xml file

<Connector

port="8080" protocol="org.apache.coyote.http11.Http11NioProtocol"

maxThreads="150" SSLEnabled="true"

scheme="https"

secure="true"

clientAuth="false"

sslProtocol="TLS"

keystoreFile="/opt/TalendTools-8.0.1/tac/apache-tomcat/conf/tac-tomcat-keystore.jks"

keystorePass="tacadmin">

<SSLHostConfig>

<Certificate

certificateKeystoreFile="/opt/TalendTools-8.0.1/tac/apache-tomcat/conf/tac-tomcat-keystore.jks"

certificateKeystorePassword="tacadmin"

type="RSA" />

</SSLHostConfig>

</Connector>



**Step 5: open the set env file**

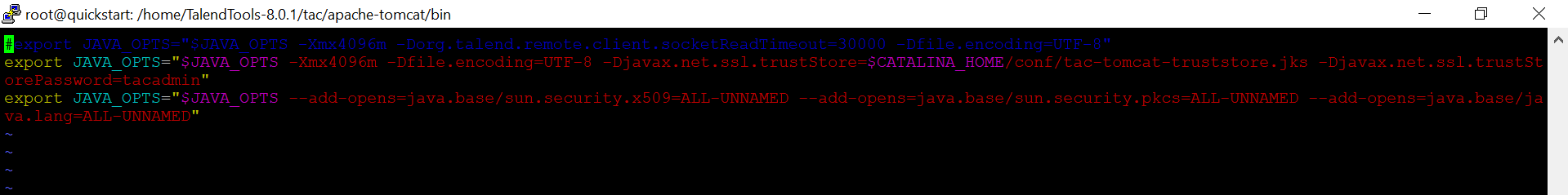
(optional do if facing certificate path issue)

/home/TalendTools-8.0.1/tac/apache-tomcat/bin

vi setenv.sh

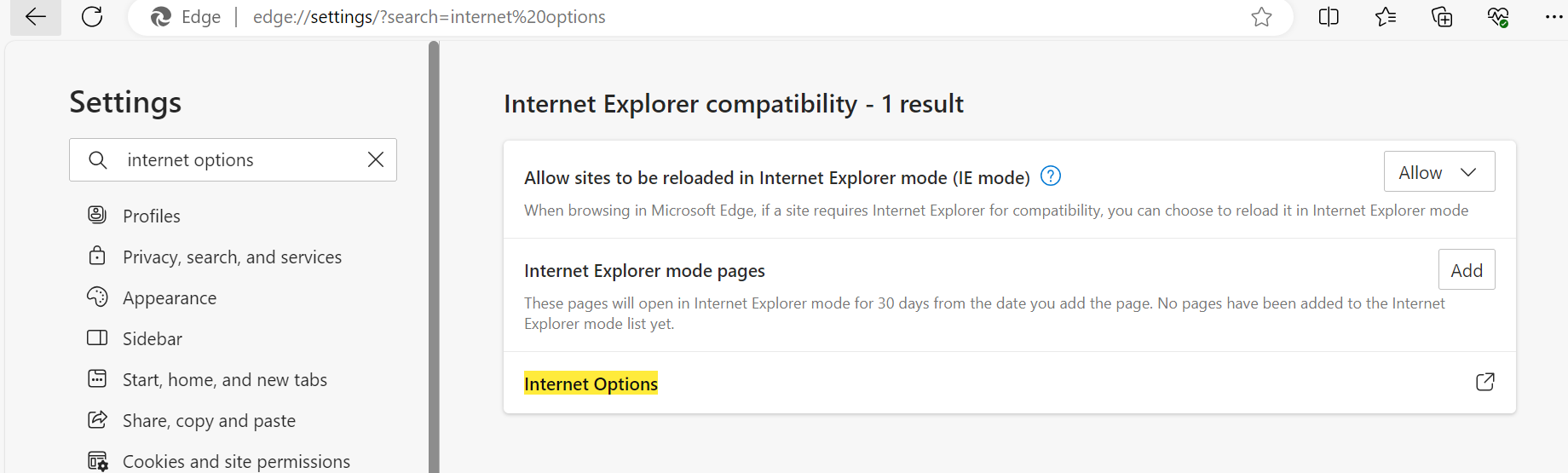
add the below line

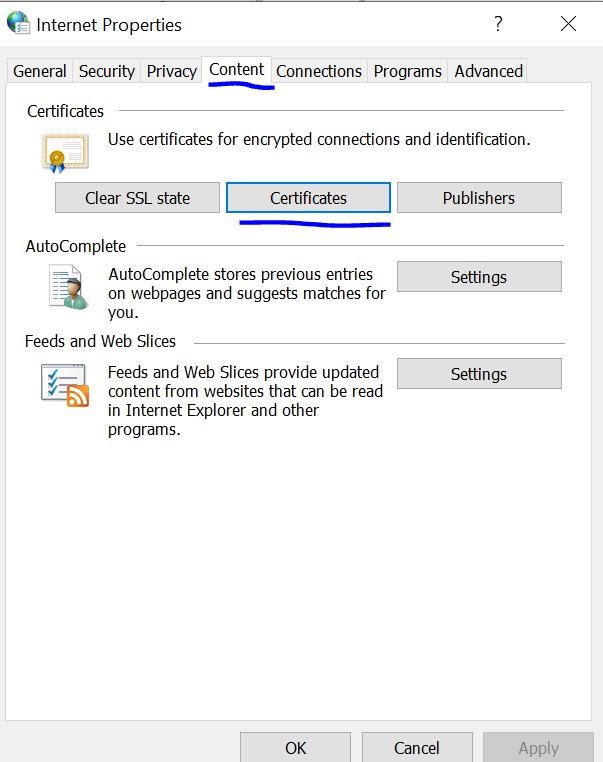
set "JAVA\_OPTS=$JAVA\_OPTS -Xmx4096m -Dfile.encoding=UTF-8 -Djavax.net.ssl.trustStore=$CATALINA\_HOME/conf/tac-tomcat-truststore.jks -Djavax.net.ssl.trustStorePassword=tacadmin"

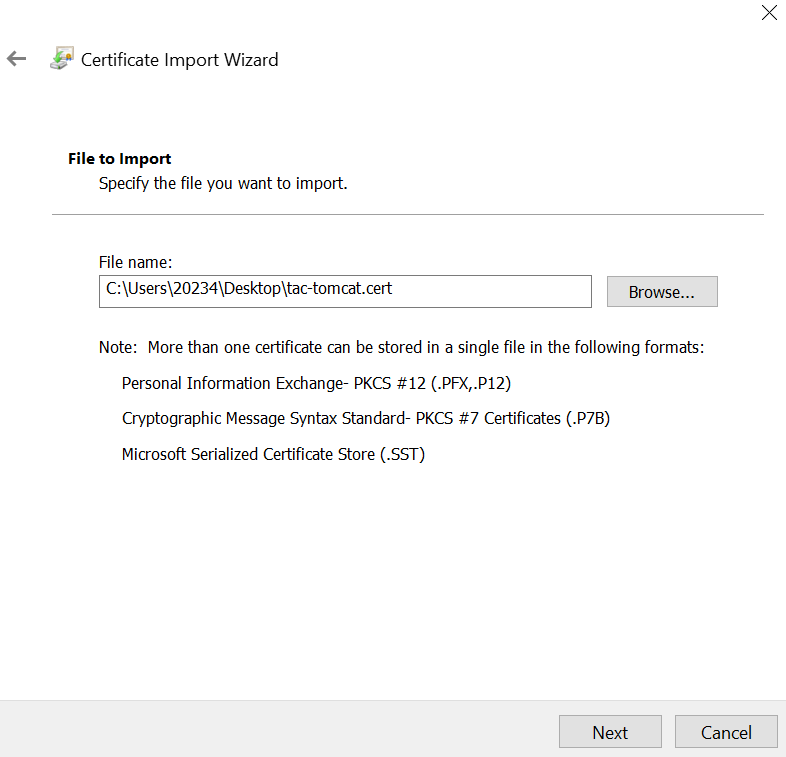


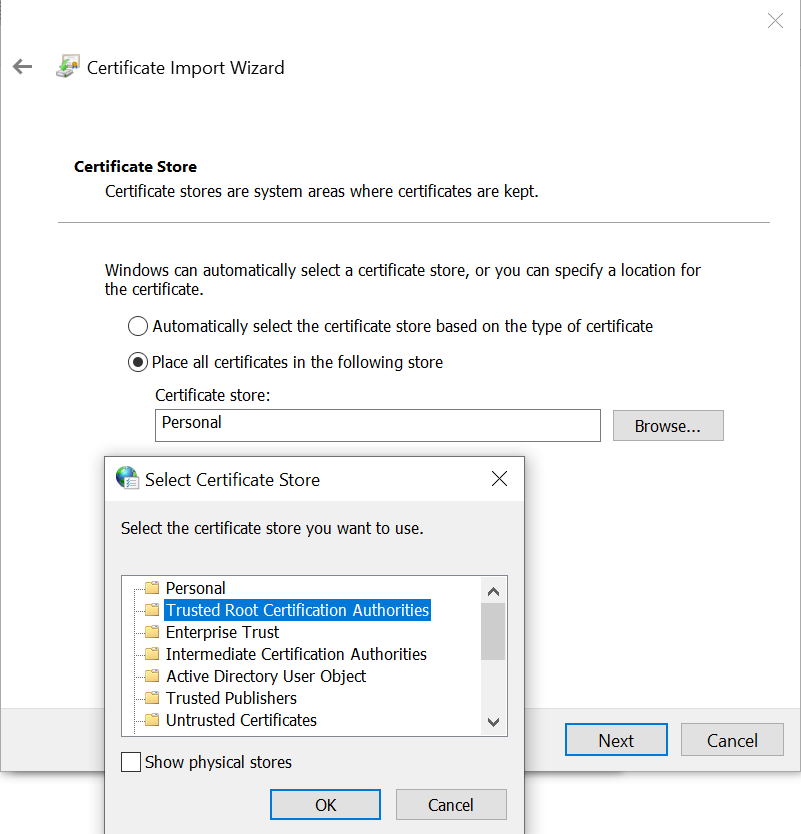
**Step6: - Upload the certificate file to browser.**

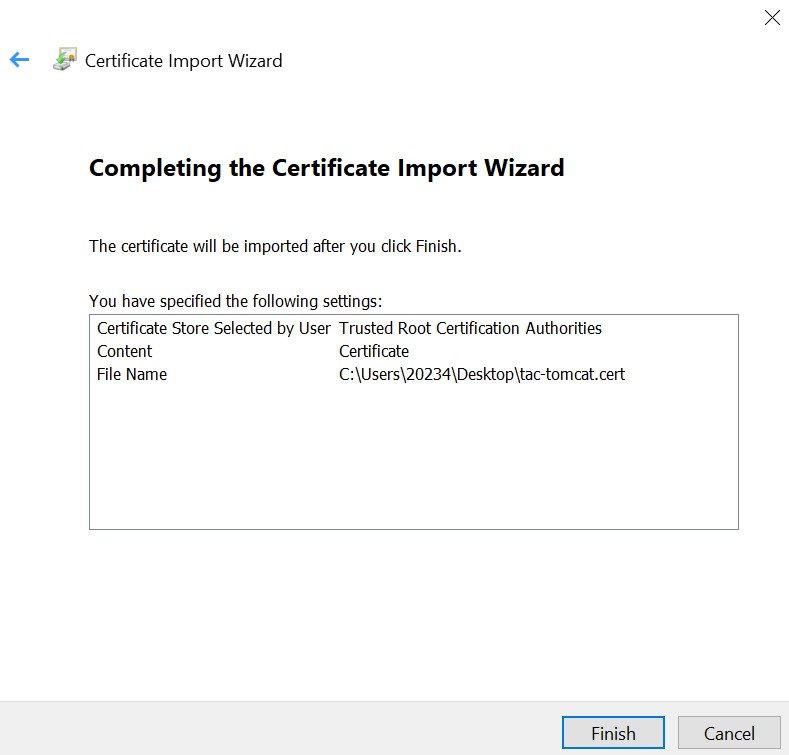
1. Open the **Internet Options** dialog in IE.
2. Select the **Content**tab.
3. Click the **Certificates**button
4. Import the **.cer** file created
5. **Trusted Root Certification Authorities**section.











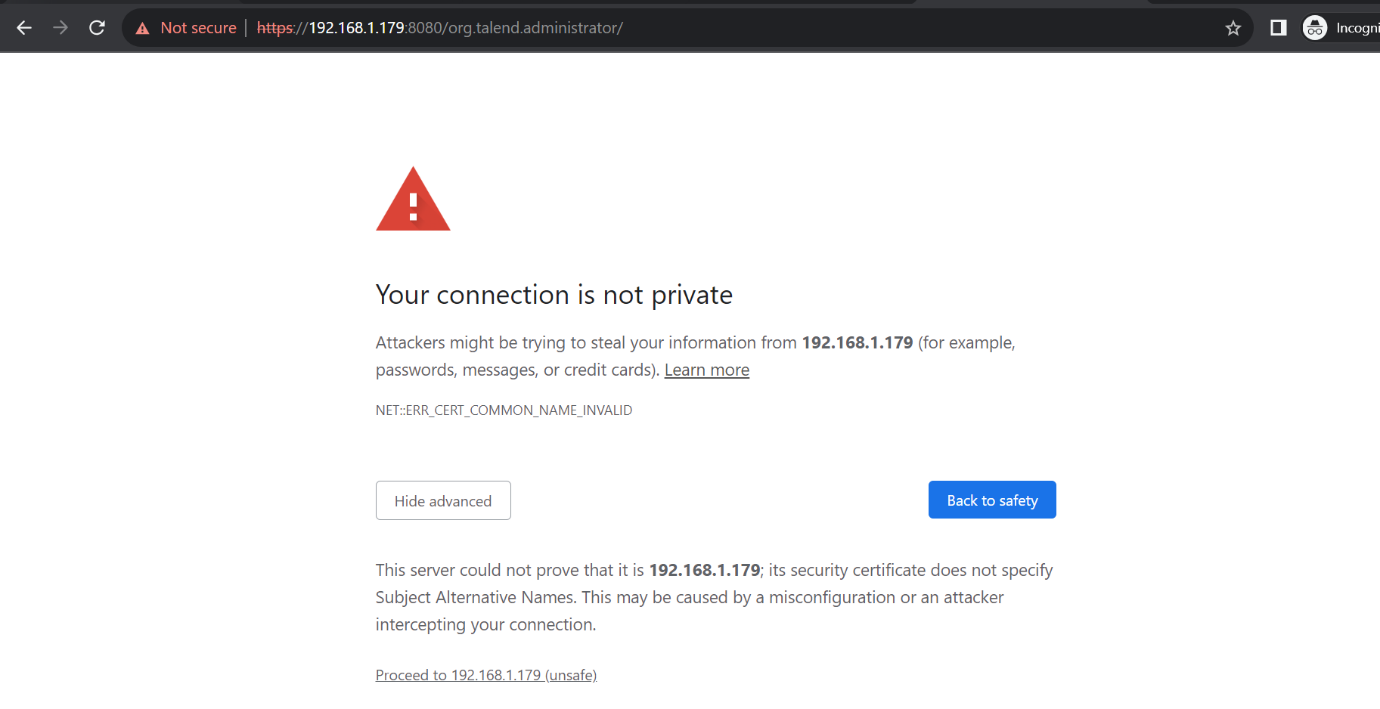
**Step 7: - Restart service the Talend TAC**

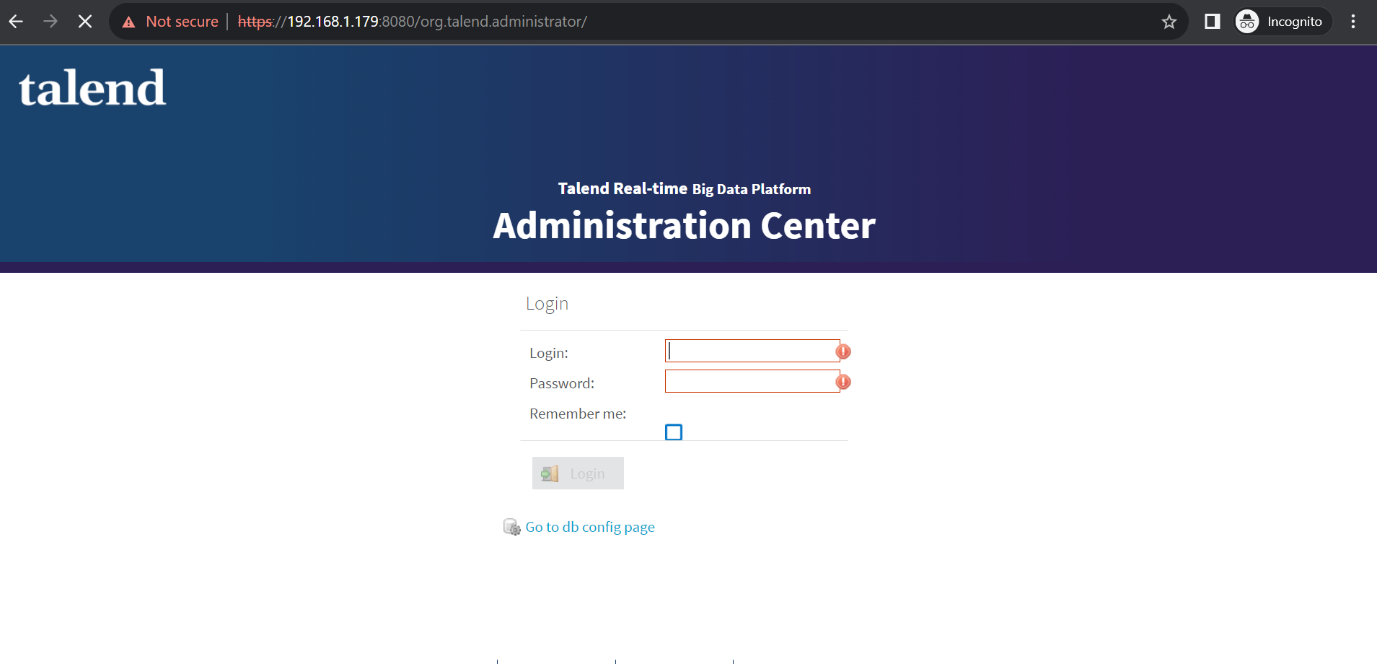
systemctl status talend-tac-8.0.1.service

systemctl restart talend-tac-8.0.1.service

Step8: - check the service on server

<https://192.168.1.179:8080/org.talend.administrator>





<https://help.talend.com/r/en-US/8.0/installation-guide-linux/config-ssl-for-tac>

<https://community.talend.com/s/article/How-to-configure-Talend-Services-to-use-SSL-UM3Wt?language=en_US>

#Upload certificate in google.

<https://www.wipo.int/pct-eservices/en/support/cert_import_backup_chrome.html>

1)Generate Keystore and Self-Signed Certificate

keytool -genkeypair -v -keystore /opt/SSL/tac-tomcat-keystore-new.jks -keyalg RSA -keysize 2048 -validity 3650 -dname "CN=localhost, OU=Development, O=Talend, L=Suresnes, ST=FR, C=FR" -ext san=dns:localhost,ip:192.168.5.132 -storepass tacadmin -keypass tackey123 -alias tac-tomcat

2. **Export Public Certificate from Keystore**

keytool -exportcert \

-alias tac-tomcat \

-keystore tac-tomcat-keystore.jks \

-storepass tacadmin \

-file tac-tomcat.cert

### 3. **Create and Import Certificate into Custom Truststore**

keytool -importcert \

-alias tac-tomcat \

-file tac-tomcat.cert \

-keystore tac-tomcat-truststore.jks \

-storepass tacadmin \

-noprompt

4. (Optional) **Verify Contents of Keystore and Truststore**

# List keystore entries

keytool -list -v -keystore tac-tomcat-keystore.jks -storepass tacadmin

# List truststore entries

keytool -list -v -keystore tac-tomcat-truststore.jks -storepass tacadmin

**(Optional) 5. Import into Java's Global Truststore (cacerts)**

sudo keytool -importcert \

-trustcacerts \

-alias tac-tomcat \

-file tac-tomcat.cert \

-keystore $JAVA\_HOME/lib/security/cacerts \

-storepass changeit