Tomcat SSL Certificate Deployment Guide

(generate CSR by customer)

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Content

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1.Generate the CSR by customer

1.1 Generate the private key files

Use following command to generate private key file: Keytool -genkey -alias [keyEntry_name] -keyalg RSA

-keystore [keystore_name] -keysize 2048

```
[root@localhost local]# keytool -genkey -alias alias -keyalg RSA -keystore keyst
ore -keysize 2048
Enter keystore password:
Re-enter new password:
What is your first and last name?
  [Unknown]:  s.wosign.com
What is the name of your organizational unit?
  [Unknown]:  WoSign CA Linited
What is the name of your organization?
  [Unknown]:  support
What is the name of your City or Locality?
  [Unknown]:  ShenZhen
What is the name of your State or Province?
  [Unknown]:  GuangDong
What is the two-letter country code for this unit?
  [Unknown]:  CN
Is CN=s.wosign.com, OU=WoSign CA Linited, O=support, L=ShenZhen, ST=GuangDong, C
=CN correct?
  [no]:  y

Enter key password for <alias>
        (RETURN if same as keystore password):
[root@localhost local]#
```

1.2 Generate CSR file

Use following command to generate CSR file: Keytool -certreq -alias [keyEntry name] -file request.csr

-keystore [keystore name]

```
[root@localhost local]# keytool -certreq -alias alias -file csr.csr -keystore ke
ystore
Enter keystore password:
[root@localhost local]# ls
```

1.3 Submit CSR file

When you apply the certificate on https://buy.wosign.com/free/?lan=en

You can choose 'Generated by myself' after you do the domain verification.

Choose option 2.

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Option 1:Generate CSR by the system

Option 2:Submit the CSR

Please refer to: SSL Certificate signing request(CSR) Generation Instructions

Please paste Certificate Signing Request

Please notice:

1.System don't care the CSR content and signature algorithm except the key length that must be equal to or greater than 2048 bits;

2.No need to enter other information while you generate the CSR file.

Check CSR   Submit

2.Installation of SSL certificate

2.1 Get SSL certificate

You will get a zip file with password after you apply the certificate from wosign successfully. You need to enter the password to extract the file, after extract the file you will get 4 files: **for Apache、for IIS、for Nginx、for Other Server.** We will need unzip the zip file for other server and we can get following files.

Figure 1

Import root, cross root, intermediate root and public certificate into keystore.

Following are command:

keytool -import -trustcacerts -alias [alias_name] -file xxx.cer -keystore [keystore_name]

[alias_name]: alias.

xx.cer: name of the root.

[keystore_name]: keystore

keytool -import -trustcacerts -alias root -file cross 1_root.crt -keystore keystore

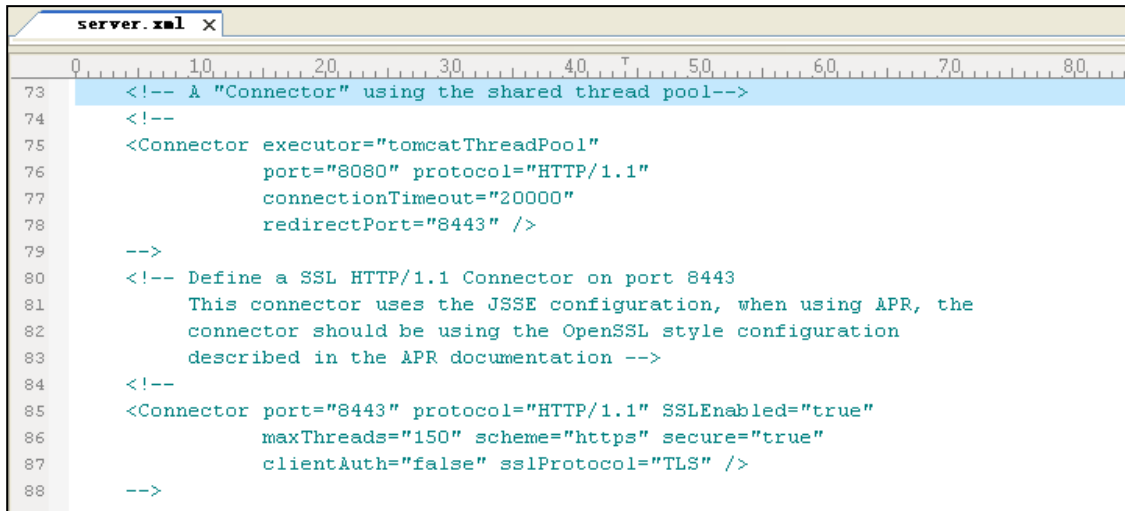keytool -import -trustcacerts -alias corss –file 2_cross.crt -keystore keystore

keytool -import -trustcacerts -alias issuer -file 3_issuer.crt -keystore keystore

Finally import public certificate.

Keytool -import -trustcacerts -alias [keyEntry_name] -file domain.com.crt -keystore keystore

2.2 Deploy SSL certificate

Find the file "Server.xml" in the Tomcat directory, which usually in conf file. Then open the file in a text editor, and then find the code shown as followed in figure 2

Figure 2

```
<Connector port="443" protocol="HTTP/1.1" SSLEnabled="true" maxThreads="150" scheme="https" secure="true"
clientAuth="false" sslProtocol="TLS" keystoreFile="path/to/keystore" keystorePass="password" />
```

Usually <Connector port="8443"……> is commented,we delete"<!-- -->",and edit it,like:port,
keystoreFile,keystorePass. Figure 3.

Figure 3

Finally save the configuration file, and then restart the Tomcat and visit https://domain.com.

3.Install Secure signature

（**Secure signature only works on OV and EV SSL certificate now**）

If you want display the certificate logo on Enlgish website, add the code on the English web page below:

<SCRIPT LANGUAGE="JavaScript" TYPE="text/javascript" SRC="https://seal.wosign.com/tws-en.js"></SCRIPT>

4.Backup of SSL certificate

Please save the keystore file and password.

5.Restore of SSL certificate

Repeat 2.2 operation。