Tomcat SSL Certificate Deployment Guide



沃通电子认证服务有限公司

WoSign CA Limited

Addr:502#, Block A, Shekou Technology Building 2, Nanshan District, Shenzhen 518067, China

Phone: +86-755-8600 8688 Website : www.wosign.com



Content

1、	Installation of SSL certificate	3
	1.1 Get SSL certificate	3
	1.2 Install the environment of SSL certificate	3
	1 3 Deploy SSL certificate	5
2 1	nstall Secure signature	7
2.1	2.1 Install English Secure signature	' 7
		/ _
3,	Backup of SSL certificate	1
4、	Restore of SSL certificate	7

Contact information of technical support

Email of technical support: support@wosign.com

Hotline of technical support: +86-755-8600 8688

Website of technical support: <u>https://bbs.wosign.com</u>

Company official website address: https://www.wosign.com



1. Installation of SSL certificate

1.1 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 5 files: for Apache, for IIS, for Nginx, for Other Server, for tomcat. These are different formats for different servers. We will need to use the jks format certificate from for tomcat.

🗃 for Apache.zip	2014/8/20 14:00	WinRAR ZIP 压缩
for IIS.zip	2014/8/20 14:00	WinRAR ZIP 压缩
🔚 for Nginx.zip	2014/8/20 14:00	WinRAR ZIP 压缩
🔚 for Other Server.zip	2014/8/20 14:00	WinRAR ZIP 压缩
🔚 for Tomcat.zip Unzip	2014/8/20 14:00	WinRAR ZIP 压缩

Figure 1

1.2 Install the environment of SSL certificate.

First visit Tomcat official website (http://tomcat.apache.org/) We can download different application packages according to your system, we take the Windows system as an example. We download the apache-tomcat-7.0.29 version for the Windows version. Download Tomcat and extract it to one of the partition. Enter the root directory of apache-tomcat-7.0.29 execute "startup.bat"in bin. During the operation of the command window will appear as shown in Figure 2.



🕌 Toncat
信息: Starting service Catalina 🛛 🗛
2014-6-3 14:56:53 org.apache.catalina.core.StandardEngine startInternal
信息: Starting Servlet Engine: Apache Tomcat/7.0.29
2014-6-3 14:56:53 org.apache.catalina.startup.HostConfig_deployDirectory
信息: Deploying web application directory D:\Tomcat_安装工具\apache-tomcat-7.0.2
9\apache-tomcat-7.0.29\webapps\docs
2014-6-3 14:56:53 org.apache.catalina.startup.HostConfig_deployDirectory
信息: Deploying web application directory D:\Tomcat_安装上具\apache-tomcat-7.0.2
9\apache-tomcat-7.0.29\webapps\examples
2014-6-3 14:56:54 org.apache.catalina.startup.HostConfig_deployDirectory
信息: Deploying web application directory D:\Tomcat_安装上具\apache-tomcat-7.0.2
9 \apache=tomcat=7.0.29 \webapps \host=manager
2014-6-3 14:56:54 org.apache.catalina.startup.HostConfig deployDirectory
信息: Deploying web application directory D:\Tomcat_安装上具\apache-tomcat-7.0.2
9\apache=tomcat=7.0.29\webapps\manager
2014-6-3 14:56:54 org.apache.catalina.startup.HostConfig_deployDirectory
信息: Deploying web application directory D:\Tomcat_女装上具\apache-tomcat-7.0.2
9\apache-tomcat-7.0.29\webapps\ROOT
2014-6-3 14:56:54 org.apache.coyote.AbstractProtocol start
信息: Starting ProtocolHandler ["http-apr-8080"]
2014-6-3 14:56:54 org.apache.coyote.AbstractProtocol start
信息: Starting ProtocolHandler ["ajp-apr-8009"]
2014-6-3 14:56:54 org.apache.catalina.startup.Catalina start
信息: Server startup in 363 ms
· · · · · · · · · · · · · · · · · · ·

Figure 2

After starting the execution file, we will enter the default address for the Tomcat application service .:

http://127.0.0.1:8080

Apache Tomcat/7.0.29 ×								
← → C □ 127.0.0.1:8080								
Home Documentation Configuration Examples Wiki Mailing Lists					ig Lists			Find Help
Apache Tomcat/7.0.29						re Foundation		
If you're seeing this, you've succ					ccessfully installed Tomcat. Congratulations!			
4	Recommended Read Security Consideration Manager Application Clustering/Session R	ling: ons HOW-TO HOW-TO leplication HOW-TO				Server Status Manager App Host Manager		
Developer Quick Start								
L	omcat Setup	<u>Realms & A</u>	AA Examples			Servlet Specifications		
E	First Web Application JDBC Data		ources Tor			Tomcat Versions		
Γ	Managing Tomcat		Documentation		G	Getting Help		
For security, access to the <u>manager webapp</u> is restricted. Users are defined in:			Tomcat 7.0 Documentation		<u>F</u> A	FAQ and Mailing Lists		
			Tomcat 7.	Tomcat 7.0 Configuration The following main			e following mailing lists	are available:
In Tomcat 7 0 access to the manager		Tomcat Wiki		<u>ar</u> In	announce@tomcat.apache.org Important announcements, releases, security			
a	application is split between diff Read more	erent users.	Find additio	Find additional important configuration		vi	vulnerability notifications. (Low volume).	
	Delesse Neter		\$CATALINA_HO	ME/RUNNING. txt		Us Us	sers@tomcat.apache.org ser support and discussion	n

Figure 3



If there is a default Tomcat default this interface, it means that your current application service is running successfully.

1.3 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 4

\square	server.xml X
73	<pre><:== % "Connector" using the shared thread pool></pre>
74	</th
75	<connector <="" executor="tomcatThreadPool" th=""></connector>
76	port="8080" protocol="HTTP/1.1"
77	connectionTimeout="20000"
78	redirectPort="8443" />
79	>
80	Define a SSL HTTP/1.1 Connector on port 8443</th
81	This connector uses the JSSE configuration, when using APR, the
82	connector should be using the OpenSSL style configuration
83	described in the APR documentation>
84	</th
85	<connector <="" port="8443" protocol="HTTP/1.1" sslenabled="true" th=""></connector>
86	maxThreads="150" scheme="https" secure="true"
87	clientAuth="false" sslProtocol="TLS" />
88	>

Figure 4

<Connector port="443" protocol="HTTP/1.1" SSLEnabled="true" maxThreads="150"

scheme="https"secure="true"clientAuth="false" sslProtocol="TLS" keystoreFile="keystore/SSL.jks"

keystorePass="XXXX" />

Usually <Connector port="8443".....> is commented, we delete"<!--->", and edit it, like: port: port number; keystoreFile: Certificate path (like: conf/SSL.jks); keystorePass: Password of certificate. Figure5

<connector< th=""><th><pre>port="443" protocol="org.apache.coyote.http11.Http11Protocol" SSLEnabled="true"</pre></th></connector<>	<pre>port="443" protocol="org.apache.coyote.http11.Http11Protocol" SSLEnabled="true"</pre>					
	maxThreads="150" scheme="https" secure="true"					
	keystoreFile="conf/jks.jks"					
	keystorePass=""					
	clientAuth="false" sslProtocol="TLS" />					

Figure 5

Finally save the configuration file, and then restart the Tomcat and visit the web site again. Like figure 6



Apache Tomcat/7.0.29 ×							
← → C Attps://dumpendulliliant							
Home Documentation	Configuration	Examples Wiki Mailing Lists					
Apache Tomcat/7.0.29							
□ 市 ? ▼ 常規 详细信息 证书路径	ı're seeing this	s, you've successfully installed Tomcat					
证书信息 这个证书的目的如下: •保证远程计算机的身份	commended Reading: <u>curity Considerations HOW-TO</u> <u>nager Application HOW-TO</u> Istering/Session Replication HOW-TO						
* 有关详细信息,请参考证书颁发机构的说明。 優发给 : 	<u>Realms & AAA Examples</u> JDBC DataSources						
有效起始日期 2014-5-30 到 2015-5-30 颁发者说明(S) 确定	anager webapp is n: 's. xml ianager	Documentation <u>Tomcat 7.0 Documentation</u> <u>Tomcat 7.0 Configuration</u> <u>Tomcat Wiki</u>					

Figure 6



2. Install Secure signature

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

2.1 Install English Secure signature

After you purchased the SSL WoSign certificate, you can get a trusted website security certification logo which shows your company's certificate information freely. It can greatly enhance the user's online trust, to facilitate more online transactions. So we suggest you to add the following code which can dynamically display the trusted site security certification logo on your homepage or other page.

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>





3、Backup of SSL certificate

Please save the file and password you receive.

4、Restore of SSL certificate

Repeat 2.3 operation.