

HOWTO Configure JIRA Ticketing System to work behind a proxy and use SSL

In order to configure JIRA Ticketing System to work behind Apache2 using a proxy and SSL we need to do the following:

1- Make sure that that you have Apache2 configured to use Virtual Hosting specially in our case hosting multiple sites on the same box, or we shall show how to configure the virtual host for the domain "[jira.example.com](#)" which shall handle our JIRA Ticketing System.

2- Make sure you have **JAVA** installed on the box and all of the path configurations is done. To do that open the `.bash_profile` and adjust the **PATH** variable to the following:

```
export JAVA_HOME=/usr/java/jdk-version
PATH=$PATH:$HOME/bin:/usr/java/jdk-version
export PATH
```

3- Make sure that you are using the JIRA standalone version.

4- In this documentation JIRA shall be installed in `/var/www/jira`

5- Configuring the JIRA home path:

Edit the file `jira-application.properties` and adjust the `jira.home` to the following:

```
vim /var/www/jiraatlassian-jira/WEB-INF/classes/jira-application.properties
```

Add:

```
jira.home = /var/www/jira
```

6- Now to configure the TOMCAT server that JIRA uses we need to edit the `server.xml` file:

```
vim /var/www/conf/server.xml
```

Search for the servers port connector

```
<Connector port="8080"
maxHttpHeaderSize="8192" maxThreads="150" minSpareThreads="25"
maxSpareThreads="75" useBodyEncodingForURI="true" enableLookups="false"
redirectPort="8443" acceptCount="100" connectionTimeout="20000"
disableUploadTimeout="true" />
```

And make sure you replace it with the following:

```
<Connector port="8080"
    maxHttpHeaderSize="8192" maxThreads="150" minSpareThreads="25"
    maxSpareThreads="75" useBodyEncodingForURI="true" enableLookups="false"
    redirectPort="8443" acceptCount="100" connectionTimeout="20000"
    disableUploadTimeout="true"
    scheme="https" proxyName="PROXYNAME" proxyPort="443"
/>
```

We added the scheme which shall be "**https**", the **proxyName** used for example "**jira.example.com**", and finally we specify the **proxyPort** which shall be 443 to use SSL.

Now search for the context path, and replace the following:

```
<Context path="" docBase="${catalina.home}/atlassian-jira" reloadable="false">
```

With the following:

```
<Context path="/jira" docBase="${catalina.home}/atlassian-jira" reloadable="false">
```

This is to make sure that JIRA handles all the URL's.

Now either search for the 8443 connector which is by default commented out, or add the following to the file:

```
<Connector port="8443" maxHttpHeaderSize="8192"
    maxThreads="150" minSpareThreads="25" maxSpareThreads="75" enableLookups="false"
    disableUploadTimeout="true" useBodyEncodingForURI="true" acceptCount="100"
    scheme="https" secure="false" clientAuth="false" sslProtocol="TLS" />
```

7- Now JIRA is ready to start, all you need to do is start it like this:

```
./bin/startup.sh
```

8- Now you are supposed to be able to access JIRA using the following URL:

<https://jira.example.com:8080>. Its okay if you see some errors that's because we are not finished yet.

9- Now lets configure JIRA with Virtual hosting. Create a file called jira.conf within the conf.d apache2 directory:

```
vim /etc/httpd/conf.d/jira.conf
```

Add the following:

```
<VirtualHost IP_Address:443>
ServerAdmin wizard@example.com
DocumentRoot /var/www/jira
ServerName jira.example.com
Options Indexes FollowSymLinks

SSLEngine on
SSLCertificateFile /etc/httpd/ssl/jira.example.com.crt
SSLCertificateKeyFile /etc/httpd/ssl/jira.example.com.key
SSLCertificateChainFile /etc/httpd/ssl/jira_bundle.crt
SetEnvIf User-Agent ".*MSIE.*" nokeepalive ssl-unclean-shutdown
SSLVerifyClient None

<Proxy *>
Order deny,allow
    Allow from all
</Proxy>

SSLProxyEngine on
ProxyRequests Off
ProxyPreserveHost On
ProxyPass /jira http://localhost:8080/jira
ProxyPassReverse /jira http://localhost:8080/jira

LogLevel warn
ErrorLog logs/jira-error_log
CustomLog logs/jira-access_log common
</VirtualHost>
```

Save and exit the configuration file.

10- Start the Apache2 webservice:

`/etc/init.d/httpd start` (or `restart` if is already running)

11- Access the website from:

<https://jira.example.com>

You should now be seeing the JIRA dash board, if not? Then please check that JIRA is running:

`netstat -ntlp | grep java`

You should see something like this:

```
tcp    0    0 127.0.0.1:8005      0.0.0.0:*          LISTEN  29875/java
tcp    0    0 0.0.0.0:8080        0.0.0.0:*          LISTEN  29875/java
```

Notes:

This document does not cover howto install JIRA.

Good References:

<http://confluence.atlassian.com/display/JIRA/Integrating+JIRA+with+Apache+using+SSL>

<http://confluence.atlassian.com/display/JIRA/Integrating+JIRA+with+Apache>

http://mirwiki.rsna.org/index.php?title=Configuring_Tomcat_to_Support_SSL

<http://confluence.atlassian.com/display/JIRAKB/Gadgets+do+not+Display+Correctly+when+Using+SSL+and+Proxy+Server>

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