## Apache 集成 tomcat proxy 配置

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## 修改 httpd.conf 配置文件

1. 去掉以下内容的#号注释: (linux 环境下这步操作省略)

LoadModule proxy\_module modules/mod\_proxy.so

LoadModule proxy\_ajp\_module modules/mod\_proxy\_ajp.so

LoadModule proxy\_balancer\_module modules/mod\_proxy\_balancer.so

2. 添加以下配置内容,对应 IP 做相应修改:

ProxyPass /balance-manager!

ProxyPass /server-status!

ProxyPass /CASServer ajp://192.168.97.152:7080/CASServer

ProxyPassReverse / balancer://csp\_cluster/

ProxyPass / balancer://csp cluster/ stickysession=JSESSIONID nofailover=off

<Proxy balancer://csp\_cluster>

ProxySet lbmethod=byrequests

BalancerMember ajp://192.168.97.57:6080 loadfactor=5 smax=10 min=10 route=csp57

BalancerMember ajp://192.168.97.58:6080 loadfactor=5 smax=10 min=10 route=csp58

</Proxy>

<Location /balancer-manager>

SetHandler balancer-manager

Order Deny, Allow

Deny from all

Allow from localhost

</Location>

<Location /server-status>

SetHandler server-status

Order Deny, Allow

Deny from all

Allow from localhost

</Location>

timeout 1800

## 修改对应 tomcat 的 server.xml 文件

如以下内容:

```
<?xml version='1.0' encoding='utf-8'?>
<Server port="7005" shutdown="SHUTDOWN">
 <Listener className="org.apache.catalina.core.AprLifecycleListener" SSLEngine="on"</pre>
 <Listener className="org.apache.catalina.core.JasperListener" />
 <Listener className="org.apache.catalina.mbeans.ServerLifecycleListener" />
 <Listener className="org.apache.catalina.mbeans.GlobalResourcesLifecycleListener"/>
 <GlobalNamingResources> <Resource name="UserDatabase" auth="Container"</pre>
               type="org.apache.catalina.UserDatabase"
               description="User database that can be updated and saved"
               factory="org.apache.catalina.users.MemoryUserDatabaseFactory"
               pathname="conf/tomcat-users.xml" />
 </GlobalNamingResources>
 <Service name="Catalina">
               port="6080" protocol="AJP/1.3" connectionTimeout="20000"
<Connector
redirectPort="8443" maxThreads="2000" minSpareThreads="200" maxSpareThreads="400"
acceptCount="2000" />
    <Engine name="Catalina" defaultHost="localhost" jvmRoute="csp57">
      <Realm className="org.apache.catalina.realm.UserDatabaseRealm"</pre>
              resourceName="UserDatabase"/>
      <Host name="localhost" appBase="webapps"
             unpackWARs="true" autoDeploy="true"
             xmlValidation="false" xmlNamespaceAware="false">
      </Host>
    </Engine>
 </Service>
</Server>
```

其中主要 Engine 节点的 jvmRoute 值与 apache httpd.conf 里配置的对应:

BalancerMember ajp://192.168.97.57:6080 loadfactor=5 smax=10 min=10 route=csp57 BalancerMember ajp://192.168.97.58:6080 loadfactor=5 smax=10 min=10 route=csp58

只开放 AJP 协议的 Connector 给 apache。

配置完毕后重启服务器,访问。

注: 在登入认证的时候会出现如下错误:

...sun.security.validator.ValidatorException: PKIX path building failed...

需要将申请的证书导入到 jre 的 keystore 中,使用如下命令:

keytool -import -alias tomcatsso -file " D:\Apache Software Foundation\Apache2.2\conf\server.crt" -keystore "D:\java\jdk1.6.0\_11\jre\lib\security\cacerts" -storepass changeit