

# Gluu Server certificate import into Java truststore and service restart

## ? Summary

- ✓ Extracted cert using OpenSSL
- ✓ Imported cert to Java's `cacerts` truststore
- ✓ Restarted Gluu Jetty services
- ✓ Verified fix for SSL trust errors

h2> `[]` Trusting Gluu Self-Signed Certificate in Java Truststore

## 1?? SSH Into the Server

```
ssh root@your-server-ip
```

## 2?? Enter Gluu Chroot Environment

To access Gluu's internal environment:

```
/sbin/gluu-serverd login
```

## 3?? Extract Gluu Certificate

Use OpenSSL to pull the self-signed cert and save it:

```
openssl s_client -showcerts -connect gluu.msldpartners.com:443 /etc/certs/gluu-full-chain.crt
```

# 4?? Import Certificate into Java Truststore

? Delete previous cert (if exists):

```
keytool -delete -alias gluu-remote \  
-keystore /etc/ssl/certs/java/cacerts \  
-storepass 'D0m@in@dm!n'
```

? Import new cert:

```
keytool -import -alias gluu-remote \  
-keystore /etc/ssl/certs/java/cacerts \  
-trustcacerts -file /etc/certs/gluu-full-chain.crt \  
-storepass 'D0m@in@dm!n' -noprompt
```

? Confirm:

```
keytool -list -keystore /etc/ssl/certs/java/cacerts \  
-storepass 'D0m@in@dm!n' | grep gluu-remote
```

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# 5?? Restart Gluu Jetty Services

Restart each service manually or with a script.

? Sample Script: `/root/restart-gluu.sh`

```
#!/bin/bash  
cd /opt/gluu/jetty/oxauth && nohup java -jar ../../jetty/start.jar > oxauth.log 2>&1 &  
sleep 5  
cd /opt/gluu/jetty/identity && nohup java -jar ../../jetty/start.jar > identity.log 2>&1 &  
sleep 5  
cd /opt/gluu/jetty/idp && nohup java -jar ../../jetty/start.jar > idp.log 2>&1 &  
sleep 5  
cd /opt/gluu/jetty/scim && nohup java -jar ../../jetty/start.jar > scim.log 2>&1 &  
sleep 5  
cd /opt/gluu/jetty/fido2 && nohup java -jar ../../jetty/start.jar > fido2.log 2>&1 &
```

```
sleep 5  
cd /opt/glue/jetty/casa && nohup java -jar ../../jetty/start.jar > casa.log 2>&1 &
```

? Run it:

```
/root/restart-glue.sh
```

## 6?? Verify Java Services

```
ps aux | grep java | grep -v grep
```

## 7?? Troubleshoot Certificate Path Issues

If you see this error:

```
Caused by: sun.security.provider.certpath.SunCertPathBuilderException:  
unable to find valid certification path to requested target
```

□ That means the certificate is not trusted by Java. Re-check your import steps.

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