

# Gluu Server

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# Gluu Server CE Administration

## ☐ Step 1: SSH Into the Host Machine

From your local terminal, connect to your Gluu server host:

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

Replace `your-gluu-server-ip` with your actual IP address or hostname.

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## ☐ Step 2: Log In to the Gluu Chroot Environment

Gluu runs inside a chroot container. Enter it with:

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

You'll know you're inside when your prompt changes (e.g., `[gluu@gluu ~]#`).

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## ☐ Step 3: Navigate the Gluu File Structure

Core services are found under:

```
cd /opt/gluu/jetty/
```

- **oxauth**: OAuth2/OpenID Connect Provider
  - **identity**: Admin UI (oxTrust)
  - **idp**: SAML IDP
  - **scim**: SCIM User Management
  - **fido2**: FIDO2 Service
  - **casa**: User Self-Service Portal
- 

## ☐ Step 4: View Logs for Troubleshooting

Check the most recent log lines for a service. Example (oxAuth):

```
tail -n 50 /opt/gluu/jetty/oxauth/logs/oxauth.log
```

Replace `oxauth` with the appropriate service name as needed.

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## ☐ Step 5: Restart Gluu Services

### Option A: Using a Script

```
/root/restart-gluu.sh
```

### Option B: Manual Service Restart

```
cd /opt/gluu/jetty/oxauth  
nohup java -jar ../../jetty/start.jar > oxauth.log 2>&1 &
```

Repeat for other services like `identity`, `idp`, etc.

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## ☐☐ Step 6: Check Running Java Services

Use this to verify if services are active:

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

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## ☐☐ Step 7: Verify Java Truststore for Certificates

Ensure custom certs are loaded:

```
keytool -list -keystore /etc/ssl/certs/java/cacerts -storepass 'your-password' | grep gluu
```

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## ☐☐ Step 8: Exit the Chroot Environment

To return to the regular Linux shell:

```
exit
```

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## ☐☐ Summary

- ☐☐ Use `/sbin/gluu-serverd login` to manage Gluu internals
- ☐☐ Services located at `/opt/gluu/jetty/`
- ☐☐ Logs help debug services under `/logs`
- ☐☐ Use `keytool` to verify Java truststore certificates

**Tip:** Always ensure your certificates are trusted by the JVM for SSL-based connections to succeed!

# 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.msispartners.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
```

---

## 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/gluu/jetty/casa && nohup java -jar ../../jetty/start.jar > casa.log 2>&1 &
```

## ☐ Run it:

```
/root/restart-gluu.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.