

# Gluu Server

The Gluu Server is a free, open-source Identity and Access Management (IAM) platform designed to provide centralized authentication, authorization, and identity federation services. It's built on open web standards and is suitable for organizations seeking secure and scalable identity solutions for web and mobile applications.

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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.

## ▣▣ 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 ~]#`).

## ▣▣ 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.

## ☐☐ 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.

## ☐☐ Step 6: Check Running Java Services

Use this to verify if services are active:

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

## ☐☐ 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
```

## ☐☐ Step 8: Exit the Chroot Environment

To return to the regular Linux shell:

exit

## ☐☐ 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.

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