

USING PRIVATE SIGNED CERTIFICATES WITH WCC

CA WORKLOAD AUTOMATION

This document describes how to use private (internally signed) certificates with WCC. Commercial Certificate Authorities (CA) like Verisign and Comodo no longer issue signed certificates for internal networks. Therefore a prerequisite to using this procedure is to have an internal CA setup. Clients (e.g. web browsers) should have the root and any intermediate certificates imported into their certificate store.

Steps

1. Login to the WCC host as the WCC software owner (e.g. wcc)
2. Set the Java environment (default WCC directory: /opt/CA/WorkloadCC)

```
export JAVA_HOME=/opt/CA/WorkloadCC/jre
export PATH=$JAVA_HOME/bin:$PATH
```

3. Change directory to the keystore location (default: /opt/CA/WorkloadCC/data/config)
4. Delete the existing key in the keystore

```
keytool -delete -alias tomcat -keystore .keystore -storepass changeit
```

5. Create a new key

```
keytool -genkey -alias tomcat -keyalg RSA -keystore .keystore \
-storepass changeit -keypass changeit -keysize 2048 \
-dname "cn=<hostname>" -validity <days>
```

where:

<hostname> the WCC hostname

<days> expiration period of the certificate in days (e.g. 5475 = 15 years)

6. Create the certificate signing request (CSR)

```
keytool -certreq -alias tomcat -keyalg RSA -keystore .keystore \
-storepass changeit -file wcc.cert.req.csr
```

7. Have the certificate request signed by your internal CA

They will need to return the following in PEM or DER format:

- a. root certificate
 - b. any/all intermediate certificate(s)
 - c. the private (signed) certificate generated from the CSR
8. Import the root certificate. Enter 'yes' to trust the certificate.

```
keytool -importcert -alias RootCA -file ca.cert.pem \  
-keystore .keystore -storepass changeit
```

9. (Optional) Import any/all intermediate certificate(s)

```
keytool -importcert -alias IntermediateCA -file intermediate.cert.pem \  
-keystore .keystore -storepass changeit
```

10. Import the private (signed) certificate

```
keytool -importcert -trustcacerts -file wcc.cert.pem -alias tomcat \  
-keystore .keystore -storepass changeit
```

11. Restart WCC services

```
unisrvctr restart CA-wcc-services
```

IMPORTANT: Ensure that the root certificate and any intermediate certificates are imported into client (e.g. web browsers) certificate stores.