ESET Tech Center

ESET PROTECT Webconsole (Apache Tomcat) - SSL Certificate from windows keystore

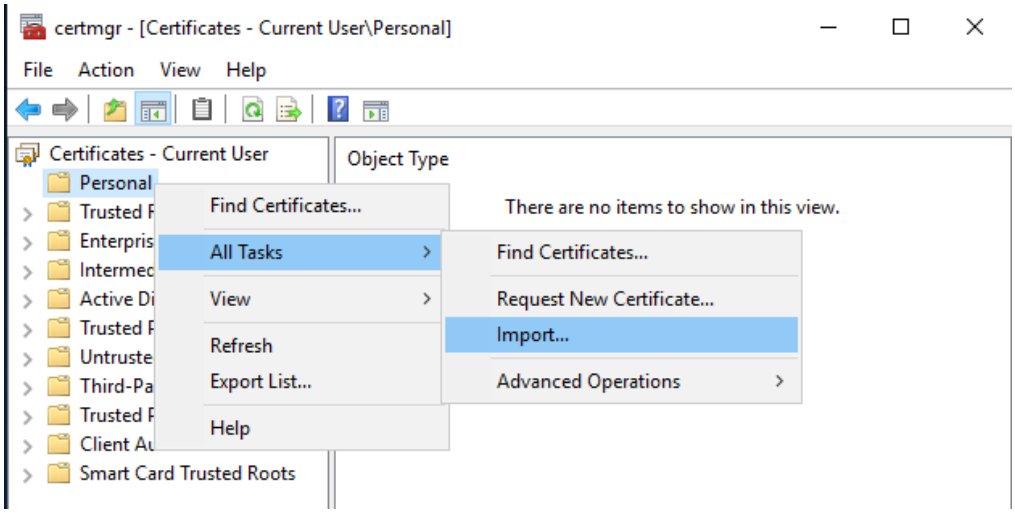
Mitchell | ESET Nederland - 2022-10-26 - Reacties (0) - ESET PROTECT

Pre-requisites:

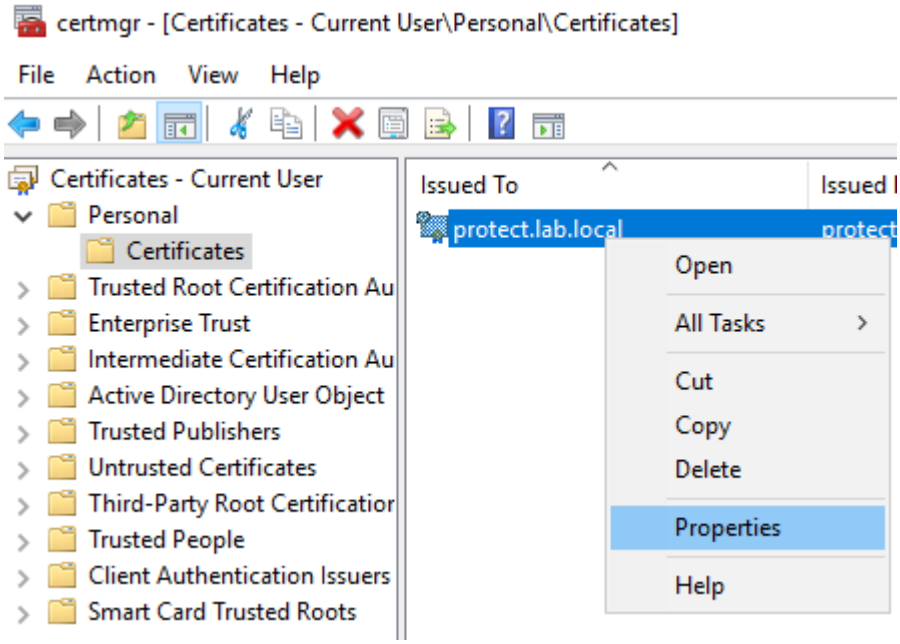
1. Certificate in p12 or pfx format (with private key)

Configuring Apache Tomcat:

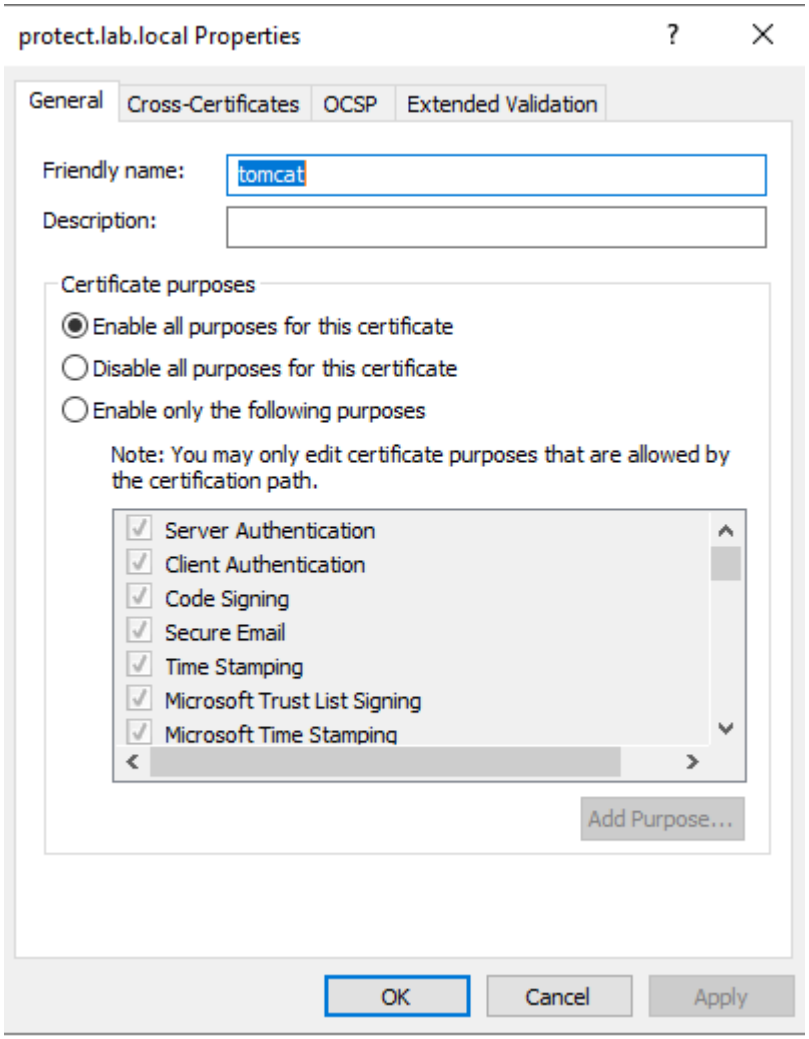
1. open powershell as the service account used by Apache Tomcat:
   runas /user:domain\sa-eset powershell.exe
2. Open certmgr.msc in the powershell session running as the service account.
   certmgr.msc
3. In certmgr.msc import the certificate into the Personal store:



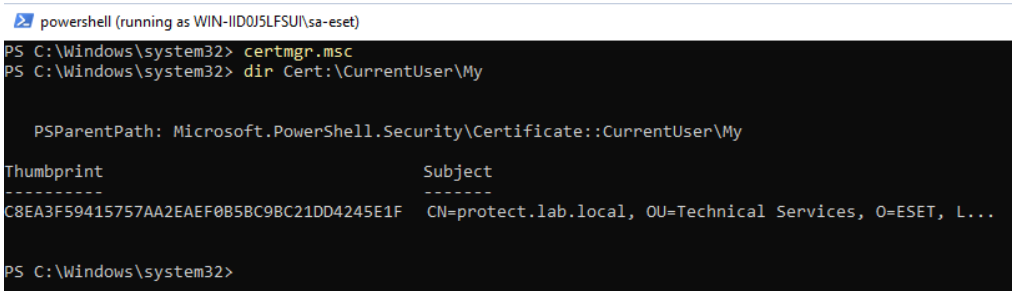
4. Note that the "friendly name" should contain a value in order for Apache Tomcat to use the certificate, if the friendly name value is empty, right click the certificate after importing and select properties:



Fill in the friendly name field:



5. Go back to the powershell session and verify the certificate exists:
   dir Cert:\CurrentUser\My



6. Open the Apache Tomcat server.xml, by default located at: "C:\Program Files\Apache Software Foundation\apache-tomcat-9.0.64\conf\server.xml" (path may vary, based on installed version of Apache Tomcat)

   A. Find the following line:

   ```
   <Connector server="OtherWebServer" port="443"
   protocol="org.apache.coyote.http11.Http11NioProtocol"
   SSLEnabled="true" maxThreads="150" scheme="https" secure="true"
   clientAuth="false" sslProtocol="TLS" keystoreFile="C:\Program
   Files\Apache Software Foundation\apache-tomcat-9.0.64\.keystore"
   keystorePass="********" keyAlias="tomcat"
   sslEnabledProtocols="TLSv1.2,TLSv1.3" honorCipherOrder="true"
   ciphers="TLS_AES_256_GCM_SHA384, TLS_CHACHA20_POLY1305_SHA256,
   TLS_AES_128_GCM_SHA256, TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384,
   TLS_DHE_RSA_WITH_AES_256_GCM_SHA384,
   TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384,
   TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256,
   TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256,
   TLS_DHE_RSA_WITH_AES_128_GCM_SHA256,
   TLS_ECDHE_ECDSA_WITH_CHACHA20_POLY1305_SHA256,
   TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256" />
   ```

   B. Change it to: (note that the keyAlias value should match the friendly name set in step 4.

   ```
   <Connector server="OtherWebServer" port="443"
   protocol="org.apache.coyote.http11.Http11NioProtocol"
   SSLEnabled="true" maxThreads="150" scheme="https" secure="true"
   clientAuth="false" sslProtocol="TLS" keystoreType="Windows-My"
   keystoreFile="" keystorePass="" keyAlias="tomcat"
   sslEnabledProtocols="TLSv1.2,TLSv1.3" honorCipherOrder="true"
   ciphers="TLS_AES_256_GCM_SHA384, TLS_CHACHA20_POLY1305_SHA256,
   TLS_AES_128_GCM_SHA256, TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384,
   TLS_DHE_RSA_WITH_AES_256_GCM_SHA384,
   TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384,
   TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256,
   ```

```
TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256,
TLS_DHE_RSA_WITH_AES_128_GCM_SHA256,
TLS_ECDHE_ECDSA_WITH_CHACHA20_POLY1305_SHA256,
TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256"
sslImplementationName="org.apache.tomcat.util.net.jsse.JSSEImple
mentation" />
```

7. Restart the Apache Tomcat Service, It should now use the certificate from the certificate store.