

ESET Tech Center

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- SSL Certificate from windows keystore

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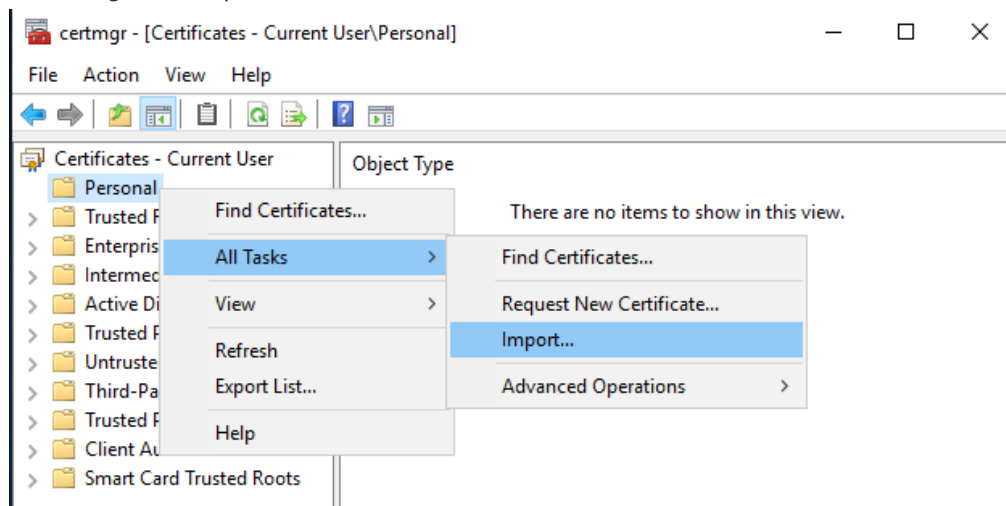
Mitchell | ESET Nederland - 2022-10-26 - Comments (0) - ESET PROTECT On-prem

Pre-requisites:

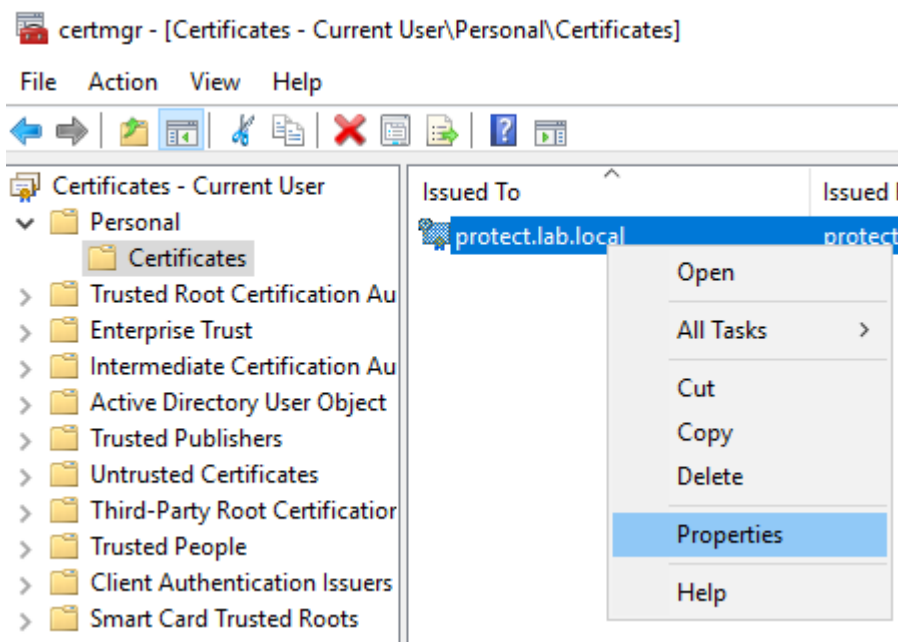
1. Certificate in p12 or pfx format (with private key)

Configuring Apache Tomcat:

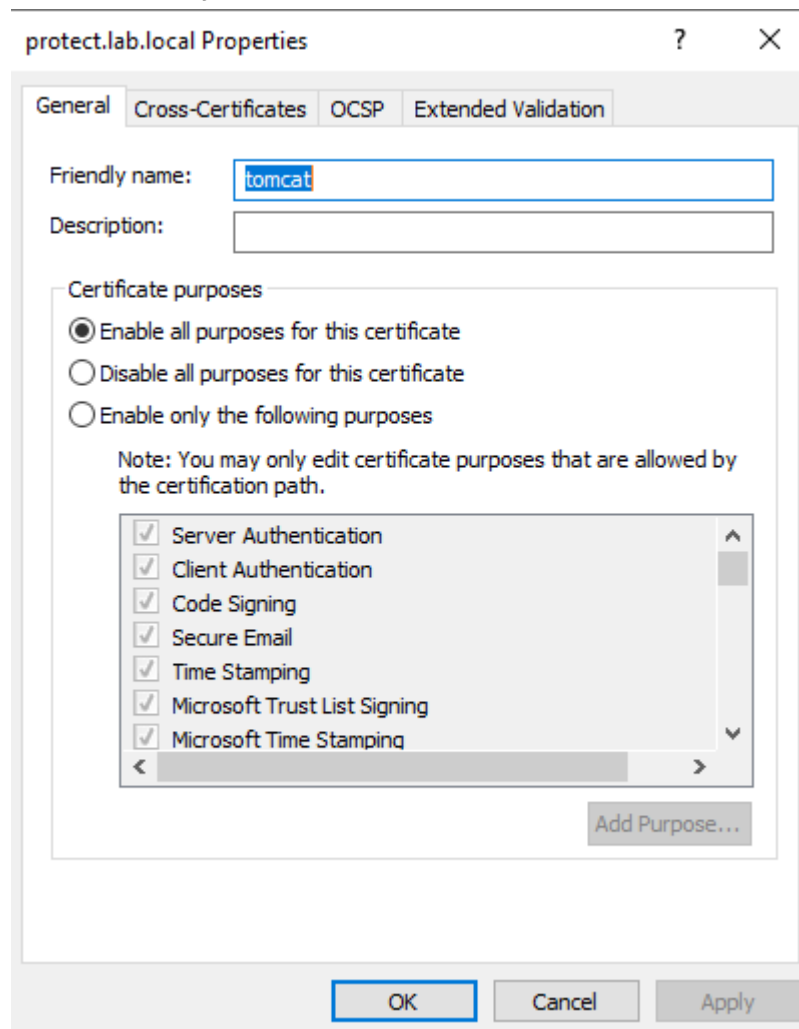
1. open powershell as the service account used by Apache Tomcat:
runas /user:domain\sa-eset powershell.exe
2. Open certmgr.msc in the powershell session running as the service account.
certmgr.msc
3. In certmgr.msc import the certificate into the Personal store:



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`

```
powershell (running as WIN-IID0J5LFSUI\sa-eset)
PS C:\Windows\system32> certmgr.msc
PS C:\Windows\system32> dir Cert:\CurrentUser\My

PSParentPath: Microsoft.PowerShell.Security\Certificate::CurrentUser\My

Thumbprint                               Subject
-----
C8EA3F59415757AA2EAEF0B5BC9BC21DD4245E1F  CN=protect.lab.local, OU=Technical Services, O=ESET, L...
```

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.