Configurare certificati server Web di terze parti per i servizi Web CVP

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Introduzione

Questo documento descrive la procedura per caricare i certificati per l'applicazione Voice Extensible Markup Language (VXML) di Cisco Customer Voice Portal (CVP) per accedere ai servizi Web.

Prerequisiti

Fare riferimento alle opzioni del comando java keytool.

Documentazione di Keytool

Requisiti

Cisco raccomanda la conoscenza dei seguenti argomenti:

Cisco Unified Customer Voice Portal (CVP)

Componenti usati

Le informazioni fornite in questo documento si basano sulle seguenti versioni software e hardware:

Cisco Unified Customer Voice Portal (CVP) versione 11.X o successive

Configurazione

In questo esempio viene installato un certificato denominato **webserver.cer**. Il certificato viene copiato nella stessa cartella del repository dei certificati. Il repository dei certificati, cacerts, la password del keystore è *changeit*.

Installare il certificato in Call Studio per eseguire il debug dell'applicazione.

L'archivio certificati per Call Studio è %CALLSTUDIO_HOME%\eclipse\jre\lib\security\cacerts. Il programma Keytool.exe si trova nella cartella %CALLSTUDIO_HOME%\eclipse\jre\bin.

```
cd %CALLSTUDIO_HOME%\eclipse\jre\lib\security
C:\Cisco\CallStudio\eclipse\jre\lib\security>dir
 Volume in drive C has no label.
 Volume Serial Number is 1800-FBA8
 Directory of C:\Cisco\CallStudio\eclipse\jre\lib\security
07/17/2019 11:03 AM <DIR>
07/17/2019 11:03 AM <DIR>
                                                 . .
12/23/2018 08:33 AM
                             4,054 blacklist
1,253 blacklisted.certs
12/23/2018 08:33 AM
12/23/2018 08:33 AM
12/23/2018 08:33 AM
                                   1,253 blacklis
114,757 cacerts
2,466 java.policy

12/23/2018 08:33 AM 42,624 java.security

12/23/2018 08:33 AM 98 javaws.policy

02/19/2019 03:38 PM <DIR> policy

12/23/2018 08:33 AM 0 trusted.libraries

03/24/2016 12:45 PM 2,090 webserver
                  8 File(s) 167,342 bytes
                  3 Dir(s) 54,560,612,352 bytes free
C:\Cisco\CallStudio\eclipse\jre\lib\security>..\..\bin\keytool.exe -importcert -file
webserver.cer -keystore cacerts -alias somewebserver
Enter keystore password:changeit
Trust this certificate? [no]:yes
Certificate was added to keystore
```

Installare il certificato nel server VXML CVP.

L'archivio certificati per il server VXML CVP è %CVP_HOME%\jre\lib\security\cacerts. Il programma Keytool.exe si trova nella cartella %CVP_HOME%\jre\bin.

```
cd %CVP_HOME%\jre\lib\security\
C:\Cisco\CVP\jre\lib\security>dir
 Volume in drive C has no label.
 Volume Serial Number is 1800-FBA8
 Directory of C:\Cisco\CVP\jre\lib\security
07/17/2019 11:46 AM <DIR>
                                                        •
07/17/2019 11:46 AM <DIR>
                                                        . .
                                             4,054 blacklist
12/23/2018 08:37 AM
12/23/2018 08:37 AM
                                             1,253 blacklisted.certs
                                      1,253 blacklis
114,757 cacerts
12/23/2018 08:37 AM
12/23/2018 08:37 AM
                                            2,466 java.policy

      12/23/2018
      08:37 AM
      42,624 java.security

      12/23/2018
      08:37 AM
      98 javaws.policy

      02/12/2019
      12:45 PM
      <DIR>
      policy

      12/23/2018
      08:37 AM
      0 trusted.libraries

12/23/2018 08:37 AM
03/24/2016 12:45 PM
                                             2,090 webserver.cer

        :45 PM
        2,090 webser

        8 File(s)
        167,342 bytes

                     3 Dir(s) 54,558,191,616 bytes free
```

```
C:\Cisco\CVP\jre\lib\security>..\.\bin\keytool.exe -importcert -file webserver.cer -keystore
cacerts -alias somewebserver
Enter keystore password:changeit
Trust this certificate? [no]: yes
Certificate was added to keystore
```

Verifica

Per controllare i certificati installati nel repository nella cartella in cui si trova il repository dei certificati cacerts, eseguire il comando:

....bin\keytool.exe -list -keystore cacerts -storepass changeit -v Keystore type: jks Keystore provider: SUN Your keystore contains 106 entries Alias name: verisignclass2g2ca [jdk] Creation date: Aug 25, 2016 Entry type: trustedCertEntry Owner: OU=VeriSign Trust Network, OU="(c) 1998 VeriSign, Inc. - For authorized use only", OU=Class 2 Public Primary Certification Authority - G2, O="VeriSign, Inc.", C=US Issuer: OU=VeriSign Trust Network, OU="(c) 1998 VeriSign, Inc. - For authorized use only", OU=Class 2 Public Primary Certification Authority - G2, O="VeriSign, Inc.", C=US Serial number: b92f60cc889fa17a4609b85b706c8aaf Valid from: Sun May 17 17:00:00 PDT 1998 until: Tue Aug 01 16:59:59 PDT 2028 Certificate fingerprints: MD5: 2D:BB:E5:25:D3:D1:65:82:3A:B7:0E:FA:E6:EB:E2:E1 SHA1: B3:EA:C4:47:76:C9:C8:1C:EA:F2:9D:95:B6:CC:A0:08:1B:67:EC:9D SHA256: 3A:43:E2:20:FE:7F:3E:A9:65:3D:1E:21:74:2E:AC:2B:75:C2:0F:D8:98:03:05:BC:50:2C:AF:8C:2D:9B:41:A1 Signature algorithm name: SHA1withRSA Subject Public Key Algorithm: 1024-bit RSA key Version: 1 Alias name: digicertassuredidg3 [jdk] Creation date: Aug 25, 2016 Entry type: trustedCertEntry Owner: CN=DigiCert Assured ID Root G3, OU=www.digicert.com, O=DigiCert Inc, C=US Issuer: CN=DigiCert Assured ID Root G3, OU=www.digicert.com, O=DigiCert Inc, C=US Serial number: ba15afa1ddfa0b54944afcd24a06cec Valid from: Thu Aug 01 05:00:00 PDT 2013 until: Fri Jan 15 04:00:00 PST 2038 Certificate fingerprints: MD5: 7C:7F:65:31:0C:81:DF:8D:BA:3E:99:E2:5C:AD:6E:FB SHA1: F5:17:A2:4F:9A:48:C6:C9:F8:A2:00:26:9F:DC:0F:48:2C:AB:30:89 SHA256: 7E:37:CB:8B:4C:47:09:0C:AB:36:55:1B:A6:F4:5D:B8:40:68:0F:BA:16:6A:95:2D:B1:00:71:7F:43:05:3F:C2 Signature algorithm name: SHA384withECDSA Subject Public Key Algorithm: 384-bit EC key Version: 3

```
#1: ObjectId: 2.5.29.19 Criticality=true
BasicConstraints:[
 CA:true
 PathLen:2147483647
]
#2: ObjectId: 2.5.29.15 Criticality=true
KeyUsage [
 DigitalSignature
 Key_CertSign
 Crl_Sign
]
#3: ObjectId: 2.5.29.14 Criticality=false
SubjectKeyIdentifier [
KeyIdentifier [
0000: CB D0 BD A9 E1 98 05 51 A1 4D 37 A2 83 79 CE 8D .....Q.M7..y..
0010: 1D 2A E4 84
                                                          .*..
]
]
. . . . . .
\dots \dots bin\keytool.exe -list -keystore cacerts -storepass changeit -alias somewebserver -v
Alias name: somewebserver
Creation date: Jul 17, 2019
Entry type: trustedCertEntry
```

Owner: CN=....