How to Sign JARS

http://wiki.plexinfo.net/?title=How_to_sign_JAR_files

http://sitysat.blogspot.com/2010/01/automatically-signing-jar-files-in.html

http://docs.oracle.com/javase/6/docs/technotes/guides/jar/jar.html#Signed%20JAR%20File

```
nsglnxdev1.micron.com:/home/ftrujillo [189]$ keytool -genkey -help
keytool -genkeypair [OPTION]...

Generates a key pair

Options:

 -alias <alias>                    alias name of the entry to process
 -keyalg <keyalg>                  key algorithm name
 -keysize <keysize>                key bit size
 -sigalg <sigalg>                  signature algorithm name
 -destalias <destalias>            destination alias
 -dname <dname>                    distinguished name
 -startdate <startdate>            certificate validity start date/time
 -ext <value>                      X.509 extension
 -validity <valDays>               validity number of days
 -keypass <arg>                    key password
 -keystore <keystore>              keystore name
 -storepass <arg>                  keystore password
 -storetype <storetype>            keystore type
 -providername <providername>      provider name
 -providerclass <providerclass>    provider class name
 -providerarg <arg>                provider argument
 -providerpath <pathlist>          provider classpath
 -v                                verbose output
 -protected                        password through protected mechanism
```

```
nsglnxdev1.micron.com:/home/ftrujillo [190]$ keytool -genkey -alias FJTJavaSign -keystore
FJTKeyStore -validity 36500
Enter keystore password: **************
Re-enter new password: **************
What is your first and last name?
  [Unknown]:  Francis Trujillo
What is the name of your organizational unit?
  [Unknown]:  Micron Technology, Non-Volatile Group ProdEng
What is the name of your organization?
  [Unknown]:  NVEProdEng
What is the name of your City or Locality?
  [Unknown]:  Boise
What is the name of your State or Province?
  [Unknown]:  Idaho
What is the two-letter country code for this unit?
  [Unknown]:  US
Is CN=Francis Trujillo, OU="Micron Technology, Non-Volatile Group ProdEng", O=NVEProdEng, L=Boise, ST=Idaho,
C=US correct?
  [no]:  y

Enter key password for <FJTJavaSign>
        (RETURN if same as keystore password):


nsglnxdev1.micron.com:/home/ftrujillo [192]$ file FJTKeyStore
FJTKeyStore: Java KeyStore

nsglnxdev1.micron.com:/home/ftrujillo [193]$ ls -al FJTKeyStore
-rw-r--r-- 1 ftrujillo ftrujillo 1386 Jun  3 13:38 FJTKeyStore

nsglnxdev1.micron.com:/home/ftrujillo/NetBeansProjects/ObaGUI/dist [206]$ jarsigner -keystore
~/FJTKeyStore ObaGUI.jar FJTJavaSign
Enter Passphrase for keystore:
```

```
nsglnxdev1.micron.com:/home/ftrujillo/NetBeansProjects/ObaGUI/dist [213]$ jarsigner -verify -verbose -
keystore ~/FJTKeyStore ObaGUI.jar -certs

s k     3134 Tue Jun 03 13:53:40 MDT 2014 META-INF/MANIFEST.MF

        X.509, CN=Francis Trujillo, OU="Micron Technology, Inc.", O=NVE Product Engineering, L=Boise, ST=Idaho,
C=US (fjtjavasign)
        [certificate is valid from 6/3/14 1:46 PM to 5/10/14 1:46 PM]

        3046 Tue Jun 03 13:53:40 MDT 2014 META-INF/FJTJAVAS.SF
        1181 Tue Jun 03 13:53:40 MDT 2014 META-INF/FJTJAVAS.DSA
           0 Thu May 29 09:28:08 MDT 2014 META-INF/
           0 Thu May 29 09:28:06 MDT 2014 org/
           0 Thu May 29 09:28:06 MDT 2014 org/micron/
           0 Thu May 29 09:28:06 MDT 2014 org/micron/nve/
           0 Thu May 29 09:28:06 MDT 2014 org/micron/nve/oba/
smk     1501 Thu May 29 09:28:06 MDT 2014 org/micron/nve/oba/CustomTableCellRenderer.class

        X.509, CN=Francis Trujillo, OU="Micron Technology, Inc.", O=NVE Product Engineering, L=Boise, ST=Idaho,
C=US (fjtjavasign)
        [certificate is valid from 6/3/14 1:46 PM to 5/10/14 1:46 PM]

smk     1216 Thu May 29 09:28:06 MDT 2014 org/micron/nve/oba/CustomTableModel$RegCellData.class

        X.509, CN=Francis Trujillo, OU="Micron Technology, Inc.", O=NVE Product Engineering, L=Boise, ST=Idaho,
C=US (fjtjavasign)
        [certificate is valid from 6/3/14 1:46 PM to 5/10/14 1:46 PM]

smk     5041 Thu May 29 09:28:06 MDT 2014 org/micron/nve/oba/CustomTableModel.class

        X.509, CN=Francis Trujillo, OU="Micron Technology, Inc.", O=NVE Product Engineering, L=Boise, ST=Idaho,
C=US (fjtjavasign)
        [certificate is valid from 6/3/14 1:46 PM to 5/10/14 1:46 PM]

smk     2338 Thu May 29 09:28:06 MDT 2014 org/micron/nve/oba/DefaultSamplePlan.class

        X.509, CN=Francis Trujillo, OU="Micron Technology, Inc.", O=NVE Product Engineering, L=Boise, ST=Idaho,
C=US (fjtjavasign)
        [certificate is valid from 6/3/14 1:46 PM to 5/10/14 1:46 PM]

smk     1565 Thu May 29 09:28:06 MDT 2014 org/micron/nve/oba/IBMSamplePlan.class

        X.509, CN=Francis Trujillo, OU="Micron Technology, Inc.", O=NVE Product Engineering, L=Boise, ST=Idaho,
C=US (fjtjavasign)
        [certificate is valid from 6/3/14 1:46 PM to 5/10/14 1:46 PM]

smk      784 Thu May 29 09:28:06 MDT 2014 org/micron/nve/oba/MainUI$1.class

        X.509, CN=Francis Trujillo, OU="Micron Technology, Inc.", O=NVE Product Engineering, L=Boise, ST=Idaho,
C=US (fjtjavasign)
        [certificate is valid from 6/3/14 1:46 PM to 5/10/14 1:46 PM]

smk      786 Thu May 29 09:28:06 MDT 2014 org/micron/nve/oba/MainUI$10.class

        X.509, CN=Francis Trujillo, OU="Micron Technology, Inc.", O=NVE Product Engineering, L=Boise, ST=Idaho,
C=US (fjtjavasign)
        [certificate is valid from 6/3/14 1:46 PM to 5/10/14 1:46 PM]

smk      556 Thu May 29 09:28:06 MDT 2014 org/micron/nve/oba/MainUI$11.class

        X.509, CN=Francis Trujillo, OU="Micron Technology, Inc.", O=NVE Product Engineering, L=Boise, ST=Idaho,
C=US (fjtjavasign)
        [certificate is valid from 6/3/14 1:46 PM to 5/10/14 1:46 PM]

smk     3667 Thu May 29 09:28:06 MDT 2014 org/micron/nve/oba/MainUI$12$1.class

        X.509, CN=Francis Trujillo, OU="Micron Technology, Inc.", O=NVE Product Engineering, L=Boise, ST=Idaho,
C=US (fjtjavasign)
        [certificate is valid from 6/3/14 1:46 PM to 5/10/14 1:46 PM]

smk     1316 Thu May 29 09:28:06 MDT 2014 org/micron/nve/oba/MainUI$12.class

        X.509, CN=Francis Trujillo, OU="Micron Technology, Inc.", O=NVE Product Engineering, L=Boise, ST=Idaho,
C=US (fjtjavasign)
        [certificate is valid from 6/3/14 1:46 PM to 5/10/14 1:46 PM]
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smk      3882 Thu May 29 09:28:06 MDT 2014 org/micron/nve/oba/MainUI$13$1.class

      X.509, CN=Francis Trujillo, OU="Micron Technology, Inc.", O=NVE Product Engineering, L=Boise, ST=Idaho,
C=US (fjtjavasign)
      [certificate is valid from 6/3/14 1:46 PM to 5/10/14 1:46 PM]

smk      1408 Thu May 29 09:28:06 MDT 2014 org/micron/nve/oba/MainUI$13.class

      X.509, CN=Francis Trujillo, OU="Micron Technology, Inc.", O=NVE Product Engineering, L=Boise, ST=Idaho,
C=US (fjtjavasign)
      [certificate is valid from 6/3/14 1:46 PM to 5/10/14 1:46 PM]

smk      1646 Thu May 29 09:28:06 MDT 2014 org/micron/nve/oba/MainUI$14$1.class

      X.509, CN=Francis Trujillo, OU="Micron Technology, Inc.", O=NVE Product Engineering, L=Boise, ST=Idaho,
C=US (fjtjavasign)
      [certificate is valid from 6/3/14 1:46 PM to 5/10/14 1:46 PM]

smk      1363 Thu May 29 09:28:06 MDT 2014 org/micron/nve/oba/MainUI$14.class

      X.509, CN=Francis Trujillo, OU="Micron Technology, Inc.", O=NVE Product Engineering, L=Boise, ST=Idaho,
C=US (fjtjavasign)
      [certificate is valid from 6/3/14 1:46 PM to 5/10/14 1:46 PM]

smk      1101 Thu May 29 09:28:06 MDT 2014 org/micron/nve/oba/MainUI$2.class

      X.509, CN=Francis Trujillo, OU="Micron Technology, Inc.", O=NVE Product Engineering, L=Boise, ST=Idaho,
C=US (fjtjavasign)
      [certificate is valid from 6/3/14 1:46 PM to 5/10/14 1:46 PM]

smk       784 Thu May 29 09:28:06 MDT 2014 org/micron/nve/oba/MainUI$3.class

      X.509, CN=Francis Trujillo, OU="Micron Technology, Inc.", O=NVE Product Engineering, L=Boise, ST=Idaho,
C=US (fjtjavasign)
      [certificate is valid from 6/3/14 1:46 PM to 5/10/14 1:46 PM]

smk       784 Thu May 29 09:28:06 MDT 2014 org/micron/nve/oba/MainUI$4.class

      X.509, CN=Francis Trujillo, OU="Micron Technology, Inc.", O=NVE Product Engineering, L=Boise, ST=Idaho,
C=US (fjtjavasign)
      [certificate is valid from 6/3/14 1:46 PM to 5/10/14 1:46 PM]

smk       784 Thu May 29 09:28:06 MDT 2014 org/micron/nve/oba/MainUI$5.class

      X.509, CN=Francis Trujillo, OU="Micron Technology, Inc.", O=NVE Product Engineering, L=Boise, ST=Idaho,
C=US (fjtjavasign)
      [certificate is valid from 6/3/14 1:46 PM to 5/10/14 1:46 PM]

smk       784 Thu May 29 09:28:06 MDT 2014 org/micron/nve/oba/MainUI$6.class

      X.509, CN=Francis Trujillo, OU="Micron Technology, Inc.", O=NVE Product Engineering, L=Boise, ST=Idaho,
C=US (fjtjavasign)
      [certificate is valid from 6/3/14 1:46 PM to 5/10/14 1:46 PM]

smk       784 Thu May 29 09:28:06 MDT 2014 org/micron/nve/oba/MainUI$7.class

      X.509, CN=Francis Trujillo, OU="Micron Technology, Inc.", O=NVE Product Engineering, L=Boise, ST=Idaho,
C=US (fjtjavasign)
      [certificate is valid from 6/3/14 1:46 PM to 5/10/14 1:46 PM]

smk       752 Thu May 29 09:28:06 MDT 2014 org/micron/nve/oba/MainUI$8.class

      X.509, CN=Francis Trujillo, OU="Micron Technology, Inc.", O=NVE Product Engineering, L=Boise, ST=Idaho,
C=US (fjtjavasign)
      [certificate is valid from 6/3/14 1:46 PM to 5/10/14 1:46 PM]

smk       784 Thu May 29 09:28:06 MDT 2014 org/micron/nve/oba/MainUI$9.class

      X.509, CN=Francis Trujillo, OU="Micron Technology, Inc.", O=NVE Product Engineering, L=Boise, ST=Idaho,
C=US (fjtjavasign)
      [certificate is valid from 6/3/14 1:46 PM to 5/10/14 1:46 PM]

smk     32536 Thu May 29 09:28:06 MDT 2014 org/micron/nve/oba/MainUI.class

      X.509, CN=Francis Trujillo, OU="Micron Technology, Inc.", O=NVE Product Engineering, L=Boise, ST=Idaho,
C=US (fjtjavasign)
      [certificate is valid from 6/3/14 1:46 PM to 5/10/14 1:46 PM]
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smk      2014 Thu May 29 09:28:06 MDT 2014 org/micron/nve/oba/MyDefaultTableModel.class

       X.509, CN=Francis Trujillo, OU="Micron Technology, Inc.", O=NVE Product Engineering, L=Boise, ST=Idaho,
C=US (fjtjavasign)
       [certificate is valid from 6/3/14 1:46 PM to 5/10/14 1:46 PM]

smk      2857 Thu May 29 09:28:06 MDT 2014 org/micron/nve/oba/MyListener.class

       X.509, CN=Francis Trujillo, OU="Micron Technology, Inc.", O=NVE Product Engineering, L=Boise, ST=Idaho,
C=US (fjtjavasign)
       [certificate is valid from 6/3/14 1:46 PM to 5/10/14 1:46 PM]

smk       163 Thu May 29 09:28:06 MDT 2014 org/micron/nve/oba/QASamplePlan.class

       X.509, CN=Francis Trujillo, OU="Micron Technology, Inc.", O=NVE Product Engineering, L=Boise, ST=Idaho,
C=US (fjtjavasign)
       [certificate is valid from 6/3/14 1:46 PM to 5/10/14 1:46 PM]


  s = signature was verified
  m = entry is listed in manifest
  k = at least one certificate was found in keystore
  i = at least one certificate was found in identity scope

jar verified.
```