

ESET Tech Center

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<https://support.eset.com/kb6243>

Issue

Create custom certificates or certification authorities (CAs) for ESET Remote Administrator (ERA).

Solution

Prerequisites

Verify [Java](#) is installed. Keytool, included in Java, allows you to create and store certificates.

Solution

Enter the commands shown below to create a new certificate:

1. Open a Command Prompt as the administrator (or root on Linux systems) and navigate to the folder where keytool is located:

```
C:\Program Files (x86)\Java\jre1.8.0_40\bin
```

(The directory depends on the OS and JRE version.)

2. Generate a key pair (a public key and associated private key) which will be used as the Certification Authority (CA):

Linux

```
keytool -genkeypair -v -alias aliasName -keystore  
keystore.jks -keyalg RSA -keysize 2048 -ext  
KeyUsage:critical="keyCertSign" -ext  
BasicConstraints:critical="ca:true" -validity  
3650
```

Windows

```
keytool -genkeypair -v -alias "aliasName" -  
keystore keystore.jks -keyalg RSA -keysize 2048 -  
ext KeyUsage:critical="keyCertSign" -ext  
BasicConstraints:critical="ca:true" -validity  
3650
```

"aliasName" represents the name of your key in keystore.jks

Replace aliasName with your alias. It represents the name of your key in the keystore.jks

Setting certificate validity

In the example above, the parameter - validity represents the duration for which the certificate is valid in days.

The -validity parameter must be greater than other certificates set during certificate creation in ERA Web Console. Default validity for the ERA Agent certificate is 5 years and default validity for ERA CA is 10 years. ERA certificate validity must start at least one day after the beginning of the ERA CA validity. For example, if your CA is valid since April 4, your ERA certificate can start on April 5.

3. Export the CA from the keystore:

Linux

```
keytool -exportcert -alias "aliasName" -file  
aliasName.der -keystore keystore.jks
```

Windows

```
keytool -export -alias "aliasName" -file  
aliasName.der -keystore keystore.jks
```

4. Generate a key pair for the certificate:

Linux

```
keytool -genkeypair -v -alias "aliasName" -  
keystore keystore.jks -keyalg RSA -keysize 2048 -  
storepass "yourPassword" -keypass "yourPassword"
```

Windows

```
keytool -genkeypair -v -alias "aliasName" -  
keystore keystore.jks -keyalg RSA -keysize 2048 -  
storepass "yourPassword" -keypass "yourPassword"
```

Common name must contain name of ERA
components

The Common Name must contain one of these strings:
"server" or "agent".

5. Create a certificate request (.csr file) for the certificate:

Linux

```
keytool -certreq -keystore keystore.jks -  
storepass "yourPassword" -alias "aliasName" -file  
file.csr
```

Windows

```
keytool -certreq -keystore keystore.jks -
```

```
storepass "yourPassword" -alias "aliasName" -file  
file.csr
```

6. Create a certificate with the certificate request:

Linux

```
keytool -gencert -keystore keystore.jks -  
storepass "yourPassword" -alias "aliasName" -  
infile file.csr -outfile output.cer
```

Windows

```
keytool -gencert -keystore keystore.jks -  
storepass "yourPassword" -alias "aliasName" -  
infile file.csr -outfile output.cer
```

7. Create a .pfx file from keystore.jks:

Linux

```
keytool -importkeystore -v -srcalias aliasName -  
srckeystore keystore.jks -srcstorepass  
yourPassword -srcstoretype JKS -destkeystore  
aliasName.pfx -destkeypass yourPassword -  
deststorepass yourPassword -deststoretype PKCS12  
-destalias aliasName
```

Windows

```
keytool -importkeystore -v -srcalias "aliasName"  
-srckeystore keystore.jks -srcstorepass  
yourPassword -srcstoretype JKS -destkeystore  
aliasName.pfx -destkeypass yourPassword -  
deststorepass yourPassword -deststoretype PKCS12  
-destalias "aliasName"
```

For more information about keytool, visit the [Oracle webpage](#).

Tags

ERA 6.x