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# How to convert .CRT SSL Certificate to .PFX format (with openssl Linux command) and Import newly generated .PFX to Windows IIS Webserver

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## 1. Converting to .CRT to.PFX file format with OpenSSL tool on GNU / Linux to import in Windows (for example, IIS)

Assuming you have generated already a certificate issing the openess Linux command and you have issued the CRYSSL certificate issuer file and you need to have the new .CRYSSL Certificate installed on Windows Server (lets say on Windows Server) (let

key file used with third party certificate issuer such as Godaddy or Hostgator to receive the .CRT / PEM file).

Here is how to generate the .PFX file based on the .CRT file for an Internal SSL Certfiicate:

openssl pkcs12 -export -in server.crt -inkey server.key -out server.pfx

On the password prompt to appear use any password because otherwise the future IIS Webserver certificate import will not work



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openssl pkcs12 -export -in server.crt -inkey server.key -out server.pfx -certfile internet v2.crt
2. Import the PFX file in Windows
Run: mme, add snap, Certificates, Computer account, Local Computer; in the
Console:
Certificates (Local Computer) > Personal > Certificates: Select All Tasks > Import File
Enter previously chosen password.
You should get further the Message "Import was successful."
You can import the PFX file by simply copying it to the server where you want it imported and double click it this will open Windows Importwizzard.
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Then select the IIS:
Then select the IIS:  Site, Properties, Directory Security, Server Certificate, Replace the current certificate, select proper Certificate. Done.
Then select the IIS:
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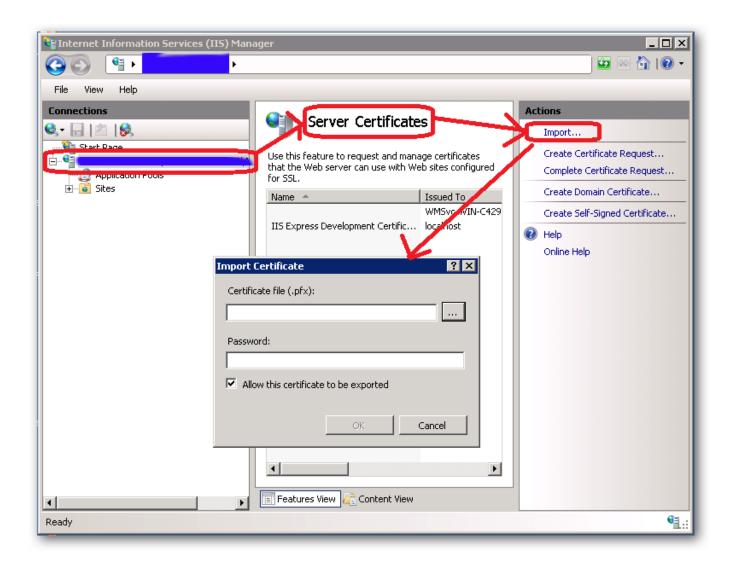


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#### Click on





3. Import the PFX file into a Java keystore



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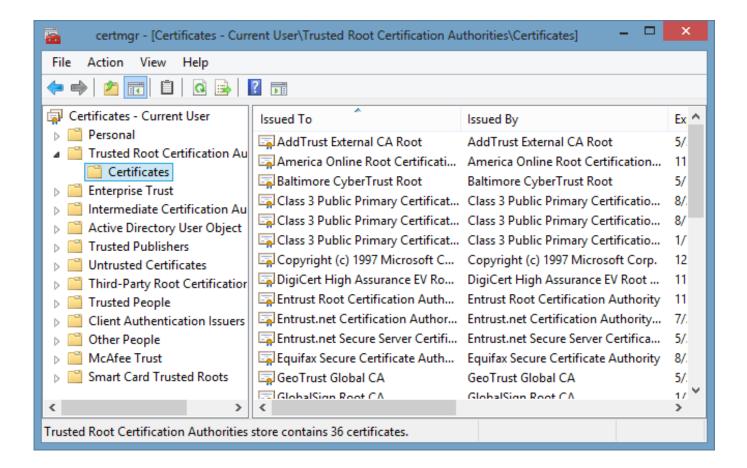
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Another thing you might need if you have the IIS Webserver using a backend Java Virtual Machine on the same or a different Windows server is to import the newly generated. PFX file within the Java VM keystore.
To import with keytool command for Java 1.6 type:
keytool -importkeystore -deststorepass your_pass_here -destkeypass changeit -destkeystore keystore.jks -srckeystore server.pfx -srcstoretype PKCS12 -srcstorepass 1234 -srcalias 1 -destalias xyz
Also the .CRT file could be directly imported into the Java keystore
Import a .crt in a Java keystore
/usr/java/jre/bin/keytool - import - keystore / webdienste/java/jdk/jre/lib/security/cacerts - file certificate.crt - alias Some alias - file certificate.crt
4. Get a list of Windows locally installed certificates
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To manager installed certificates on Windows 7 / 8 / 2012 Server OS is to run command via
Start -> Run
certmgr.msc



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One other way to see the installed certificates on your Windows server is checking within  $\label{eq:continuous} \emph{Internet Explorer}$  Go to Tools  $_{(Alt \times X)}$ ? Internet Options? Content? Certificates.  $\label{eq:content}$  To get a a complete list of installed Certificate Chain on Windows you can use PowerShell

Get-ChildItem -Recurse Cert:



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That's all folks!:)

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