

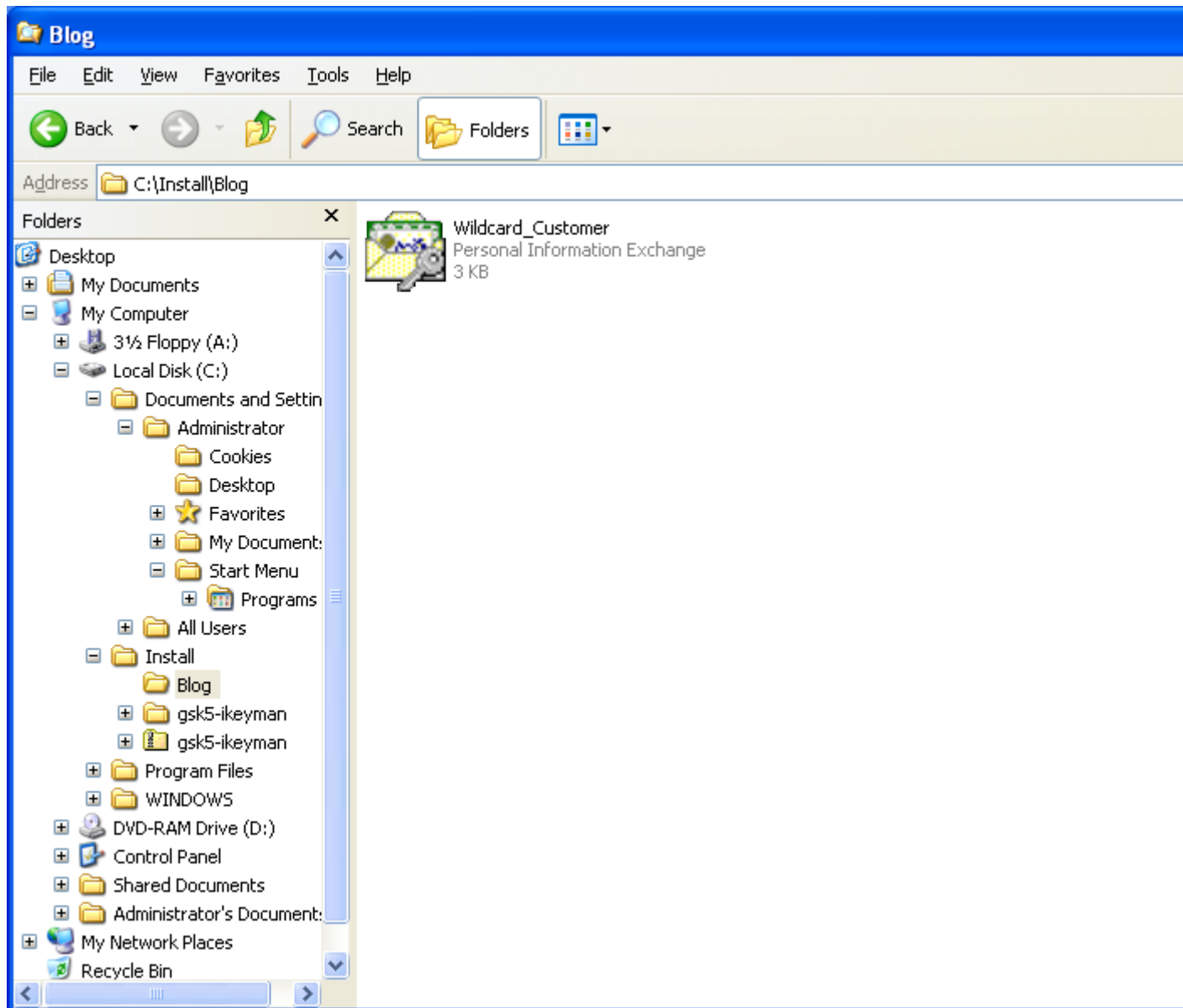
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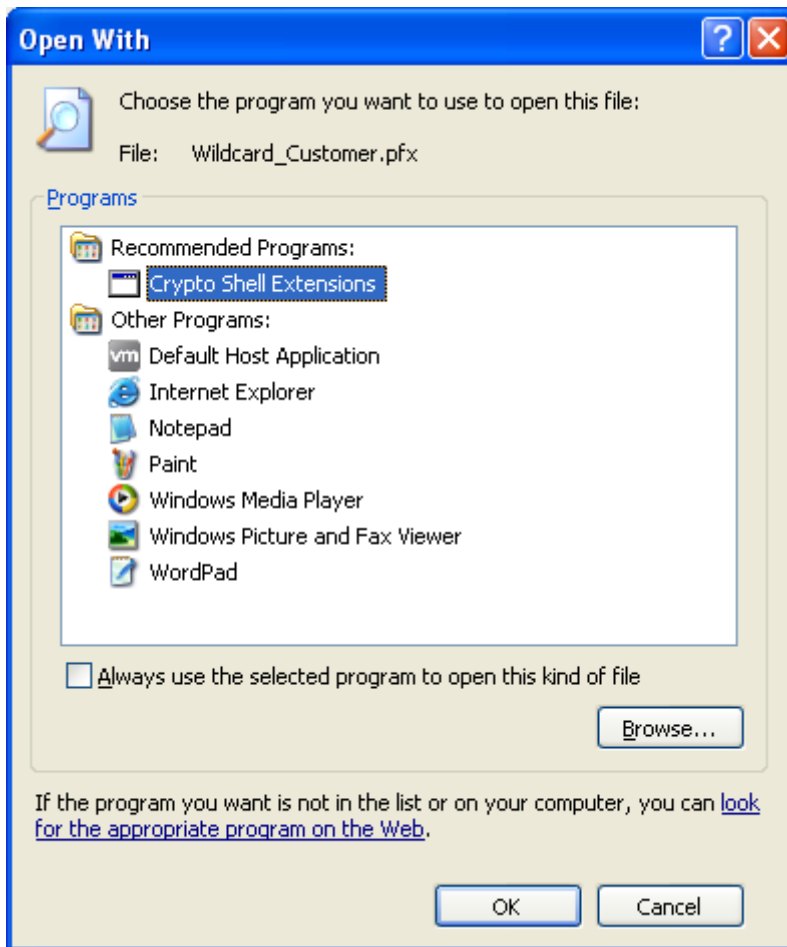
## What do I need:

1. One instance of a 32 bit Windows operating system, I used 32 bit Windows XP running on my laptop with VMware 10. You can not use 64 bit Windows for this task.
2. GSK5 that you can download from <http://www-01.ibm.com/support/docview.wss?uid=swg21615277&aid=1>. This should be unzipped inside your XP virtual machine.  
Source: <http://www-01.ibm.com/support/docview.wss?uid=swg21615277>
3. An exported P12/PFX file from in my case IIS, containing the wildcard certificate as well as the certification path to it, more on this later on

## Import your P12/PFX file into your browser inside XP

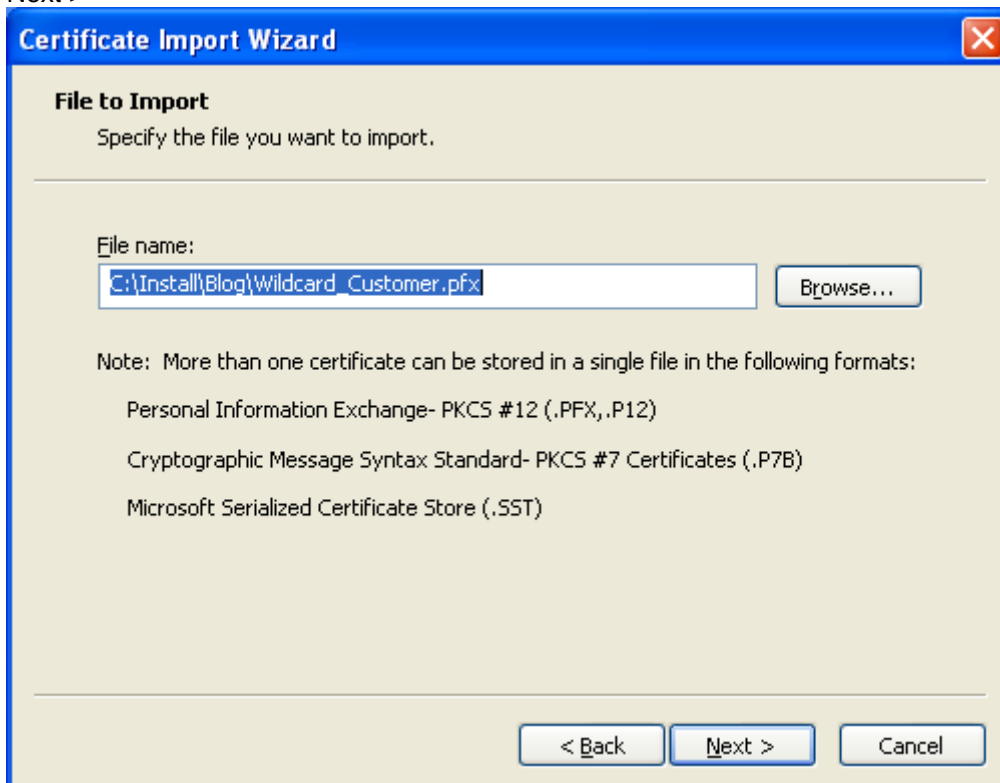


Open With...



OK

Next >



Next >

**Certificate Import Wizard** 

**Password**

To maintain security, the private key was protected with a password.

---

Type the password for the private key.


Password:

Enable strong private key protection. You will be prompted every time the private key is used by an application if you enable this option.

Mark this key as exportable. This will allow you to back up or transport your keys at a later time.

---

Next >

**Certificate Import Wizard** 

**Certificate Store**

Certificate stores are system areas where certificates are kept.

---

Windows can automatically select a certificate store, or you can specify a location for

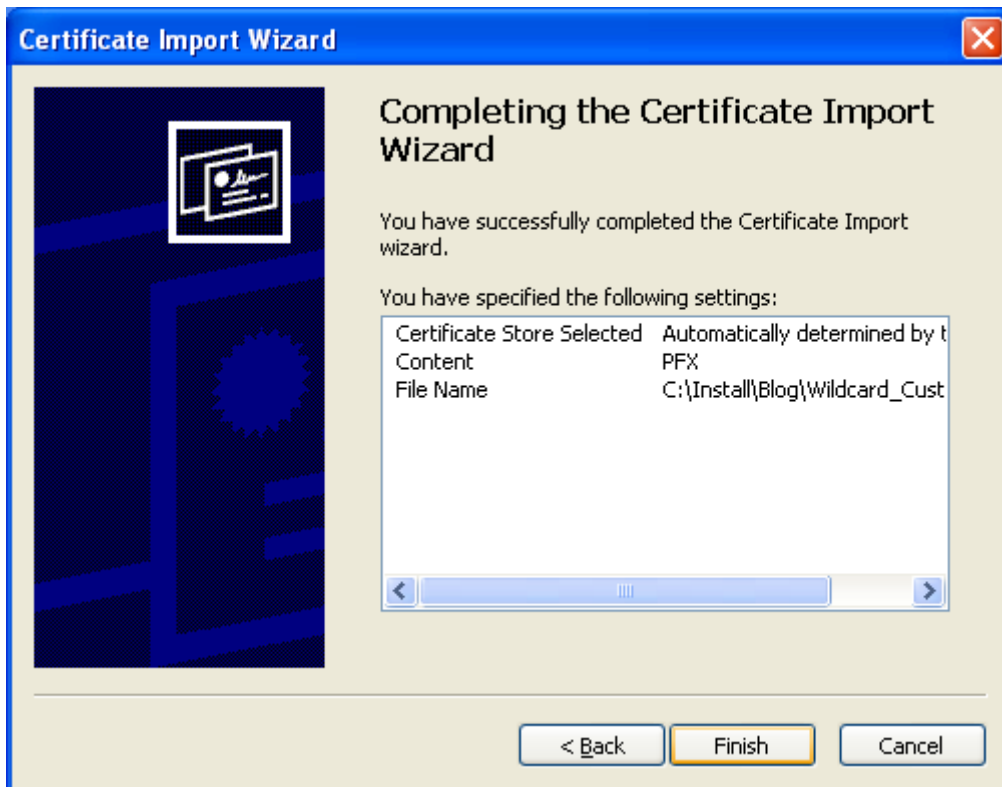
Automatically select the certificate store based on the type of certificate

Place all certificates in the following store

Certificate store:

---

Next >

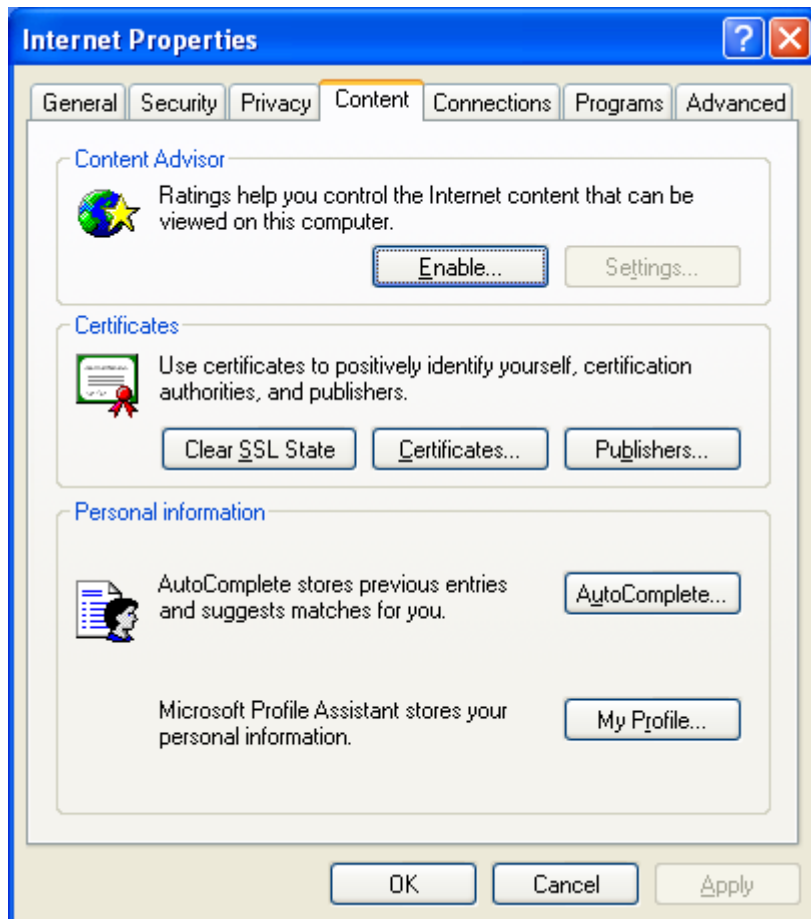


Finish

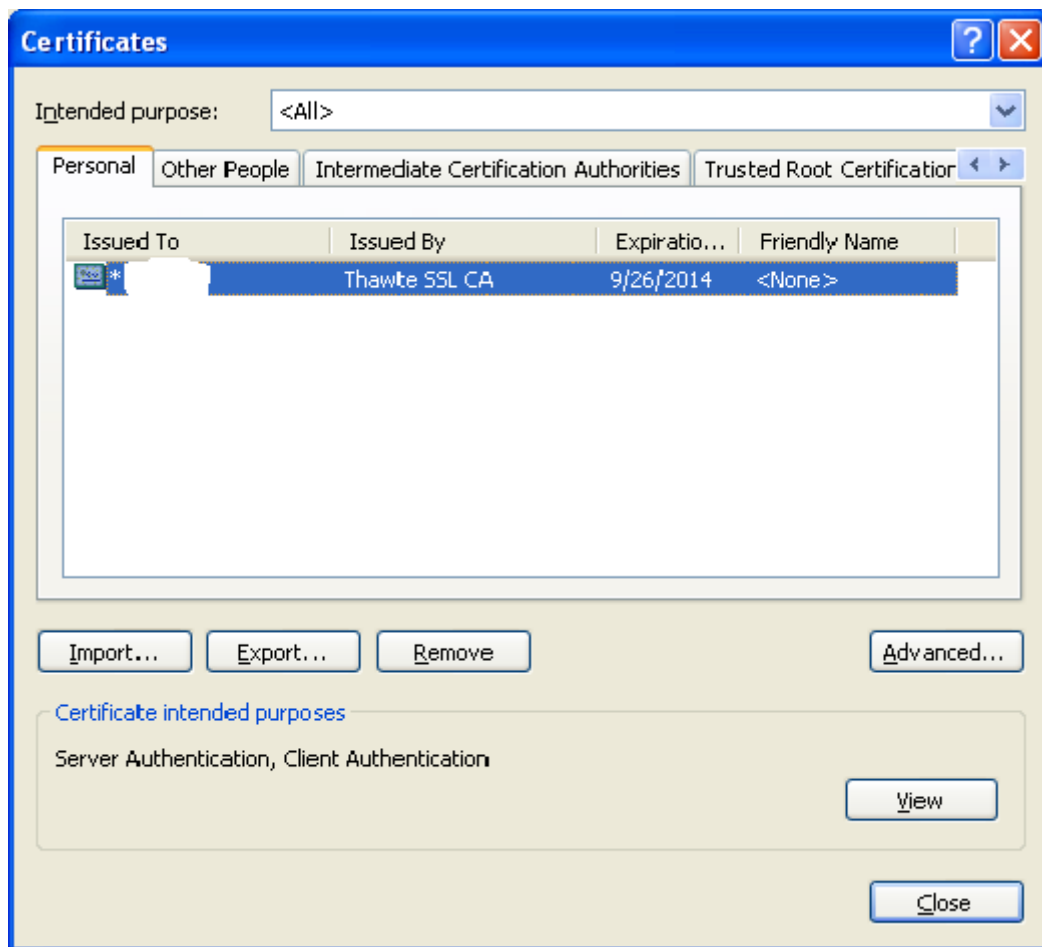


OK

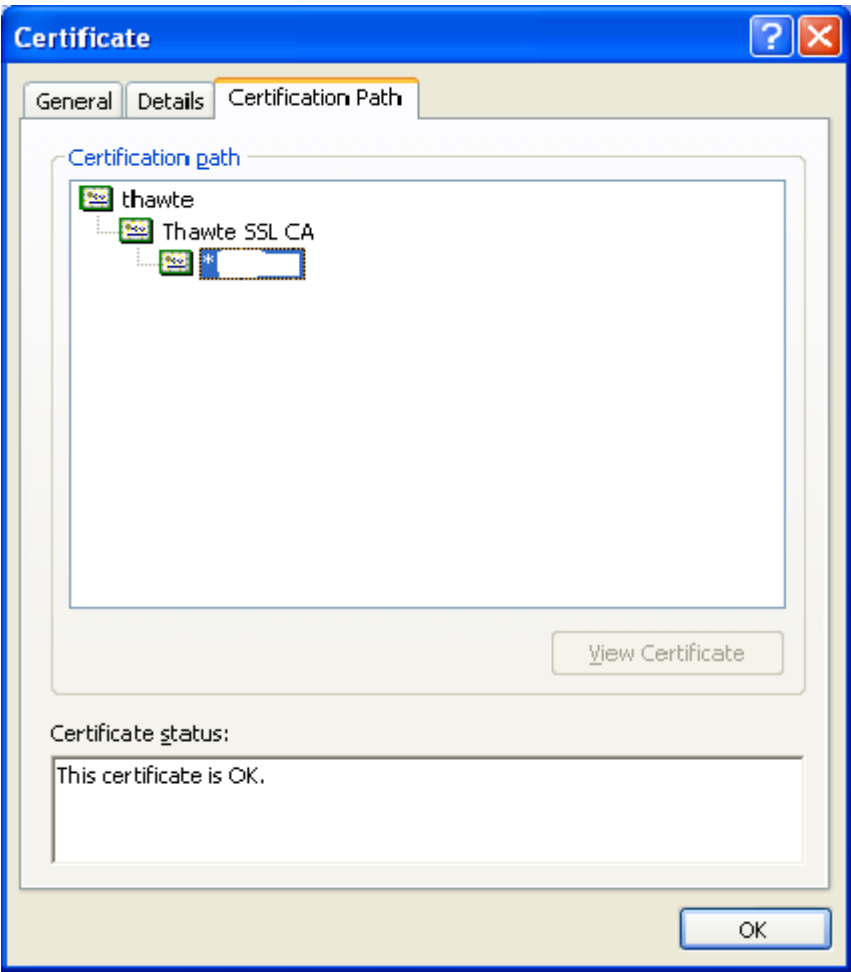
2. Check your imported certificate(s)



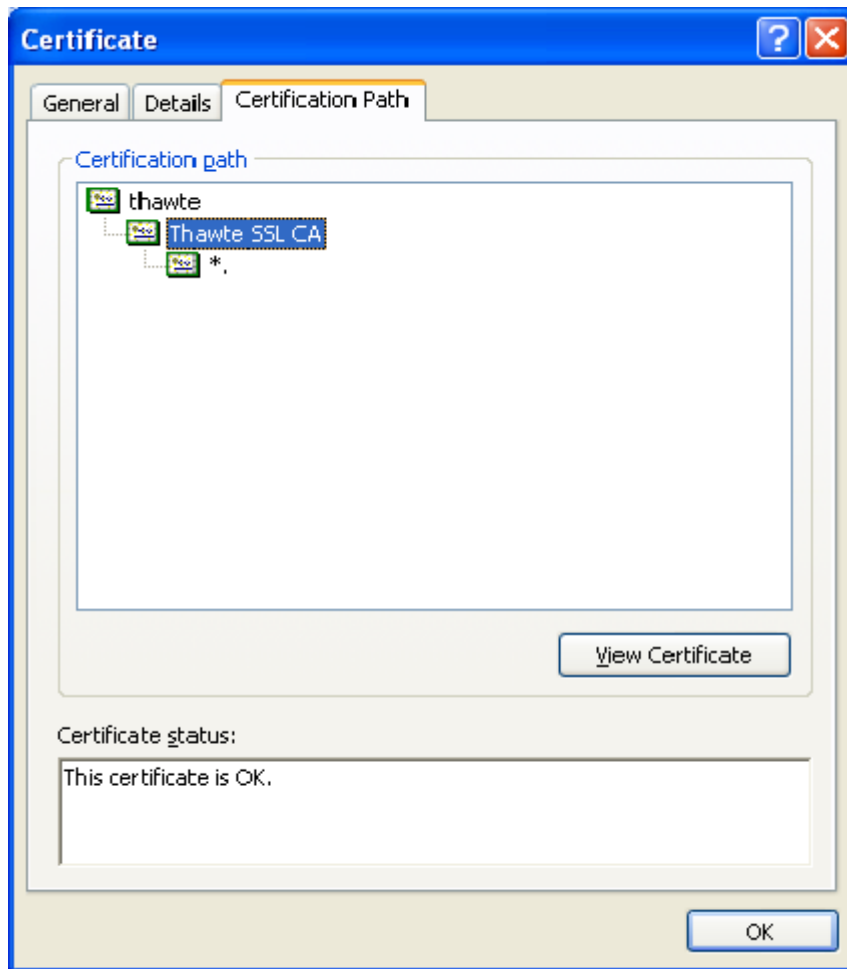
Certificates



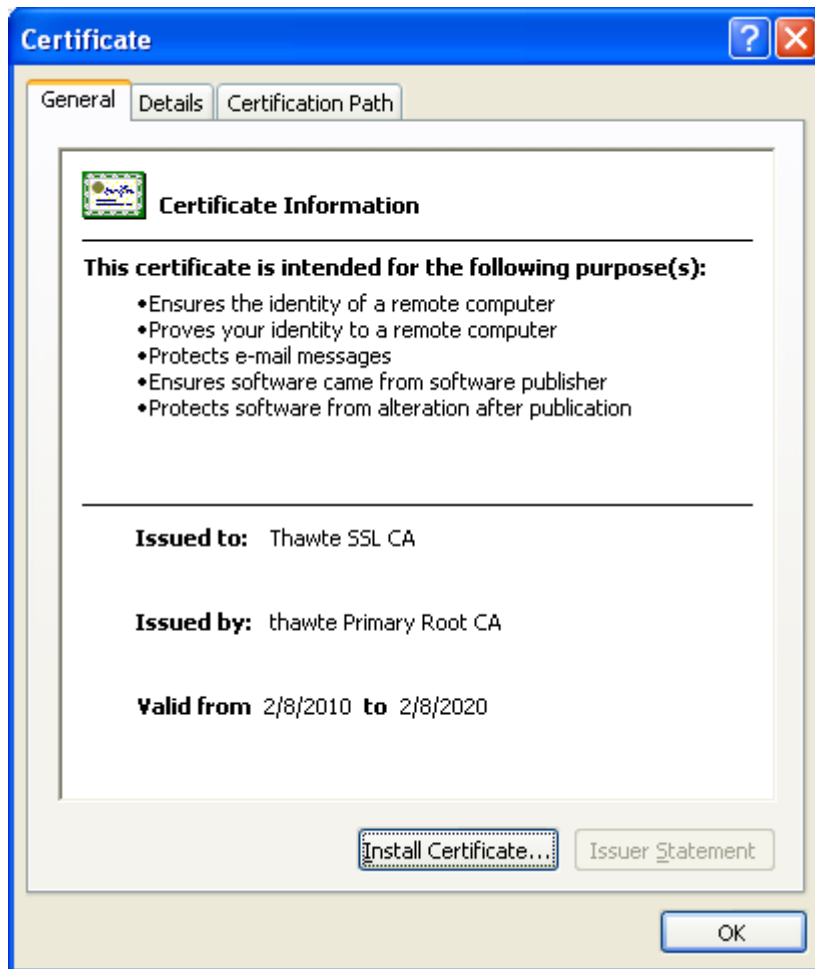
View



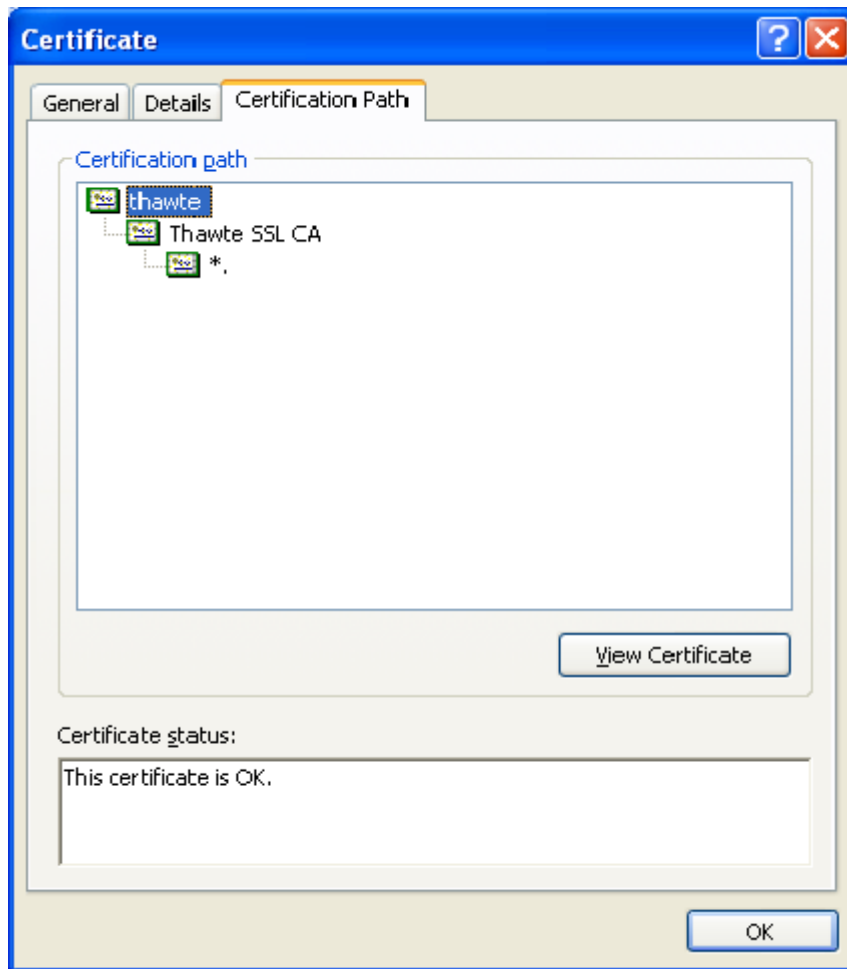




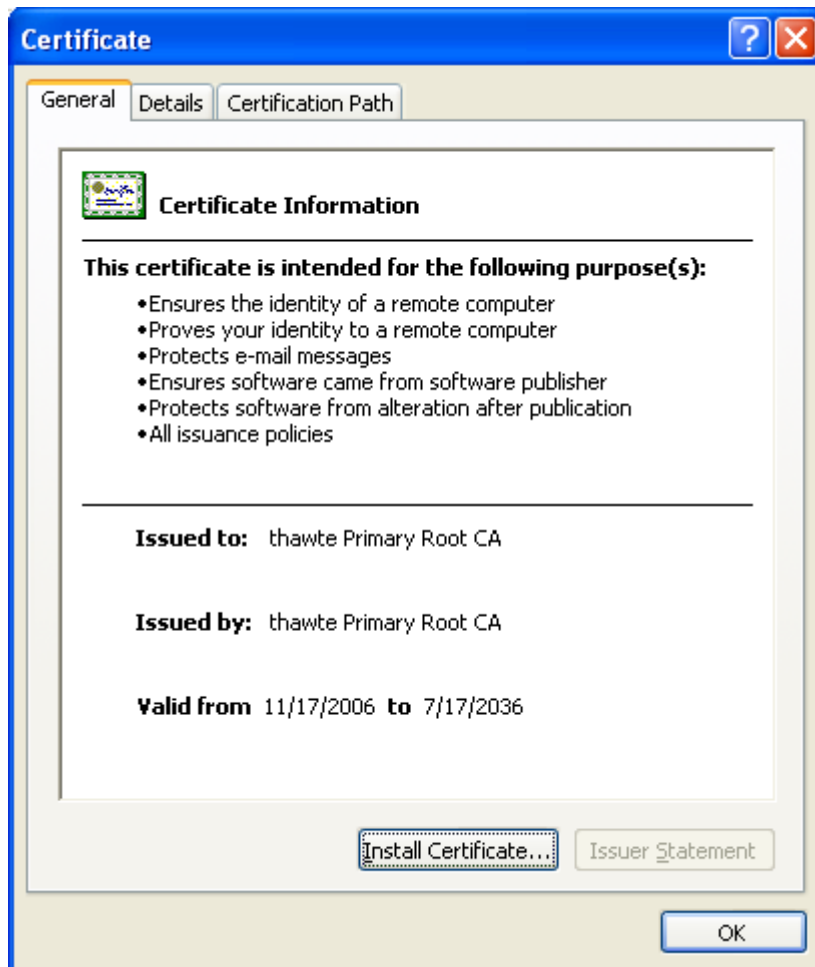
View Certificate



Write down the label on the right of **Issued to:** to use later on inside ikeyman in this case it is:  
Thawte SSL CA  
OK



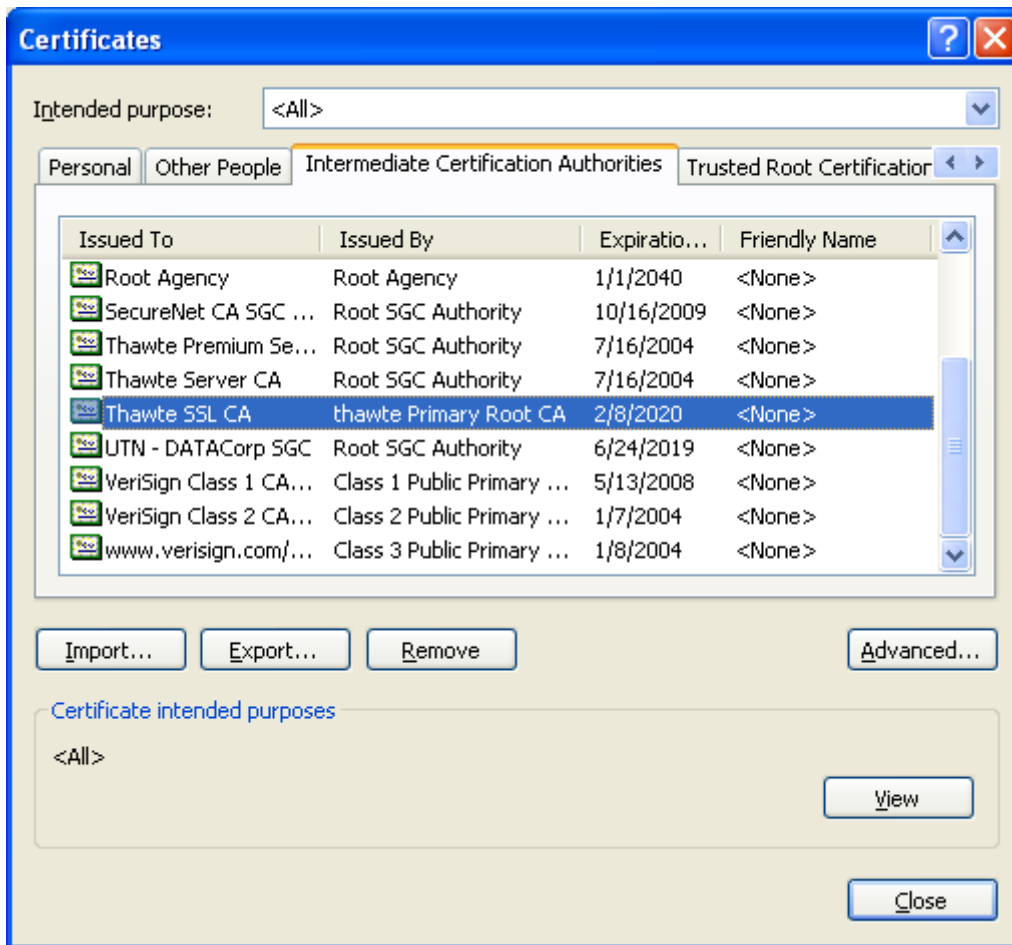
View Certificate



Write down the label on the right of **Issued to:** to use later on inside ikeyman in this case it is:  
thawte Primary Root CA

OK  
OK


## Export root and any intermediate certificates to file



Export



Next >

**Certificate Export Wizard** 

**Export File Format**  
Certificates can be exported in a variety of file formats.


---

Select the format you want to use:

- DER encoded binary X.509 (.CER)
- Base-64 encoded X.509 (.CER)
- Cryptographic Message Syntax Standard - PKCS #7 Certificates (.P7B)
  - Include all certificates in the certification path if possible
- Personal Information Exchange - PKCS #12 (.PFX)
  - Include all certificates in the certification path if possible
  - Enable strong protection (requires IE 5.0, NT 4.0 SP4 or above)
  - Delete the private key if the export is successful

---

Next >

**Certificate Export Wizard** 

**File to Export**  
Specify the name of the file you want to export

---

File name:

---

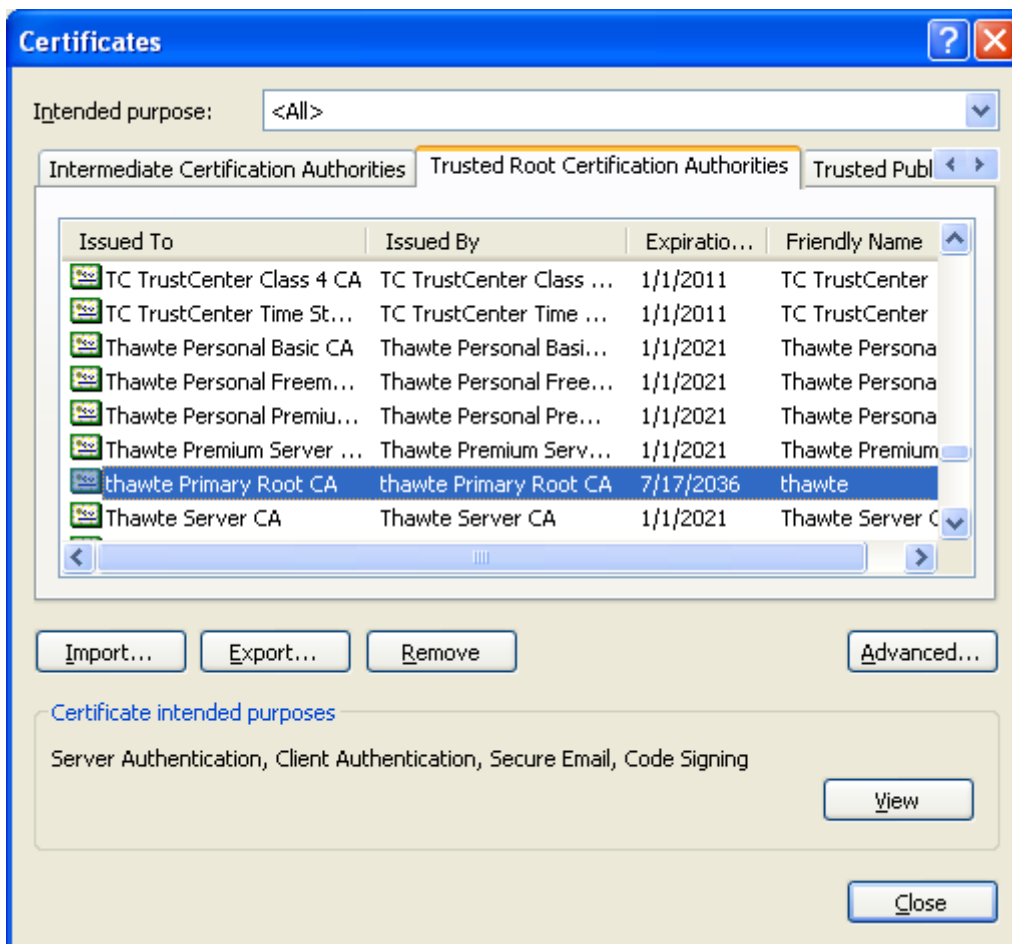
Next >



Finish



OK

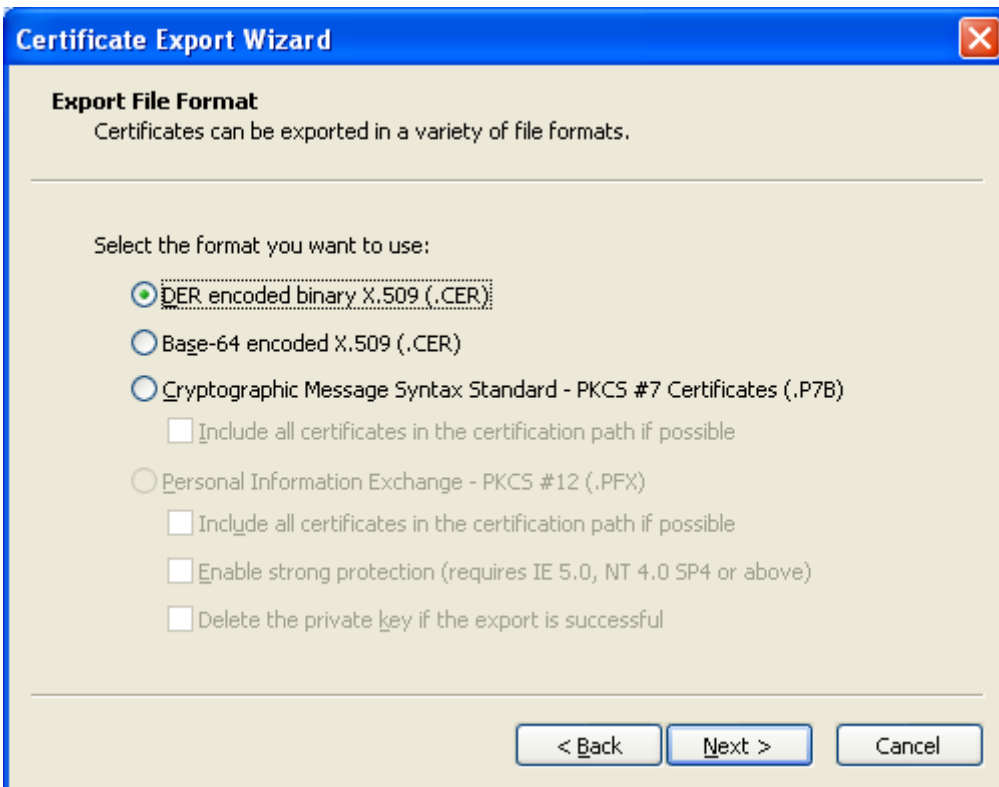


Export

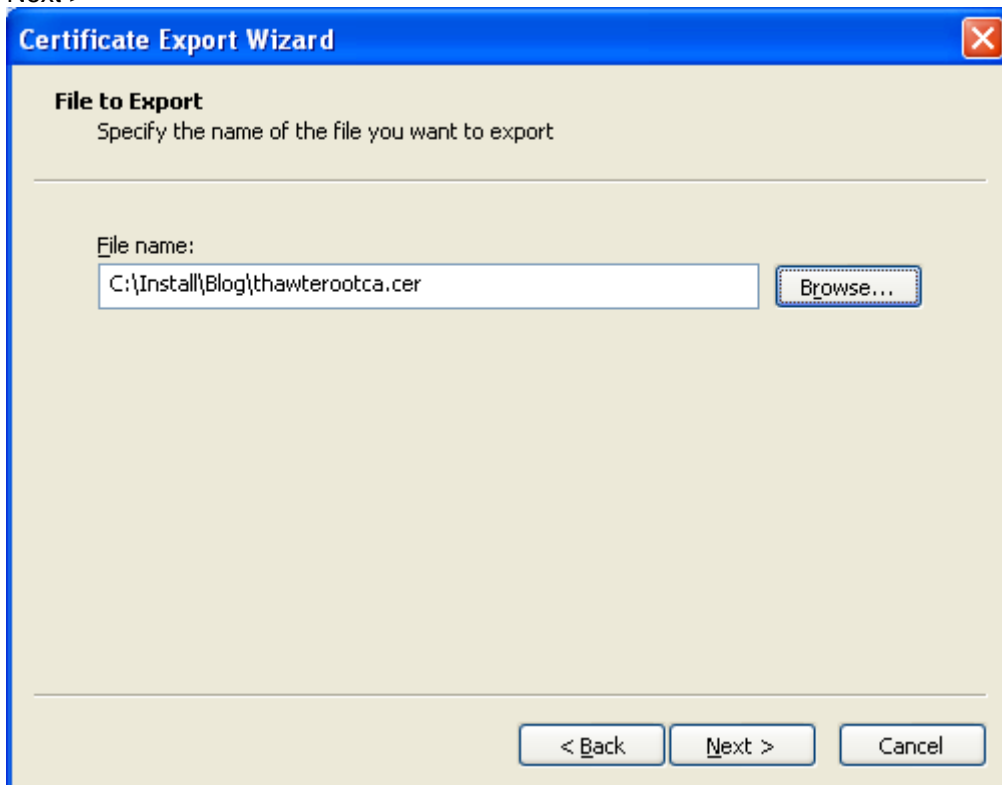


Next >





Next >



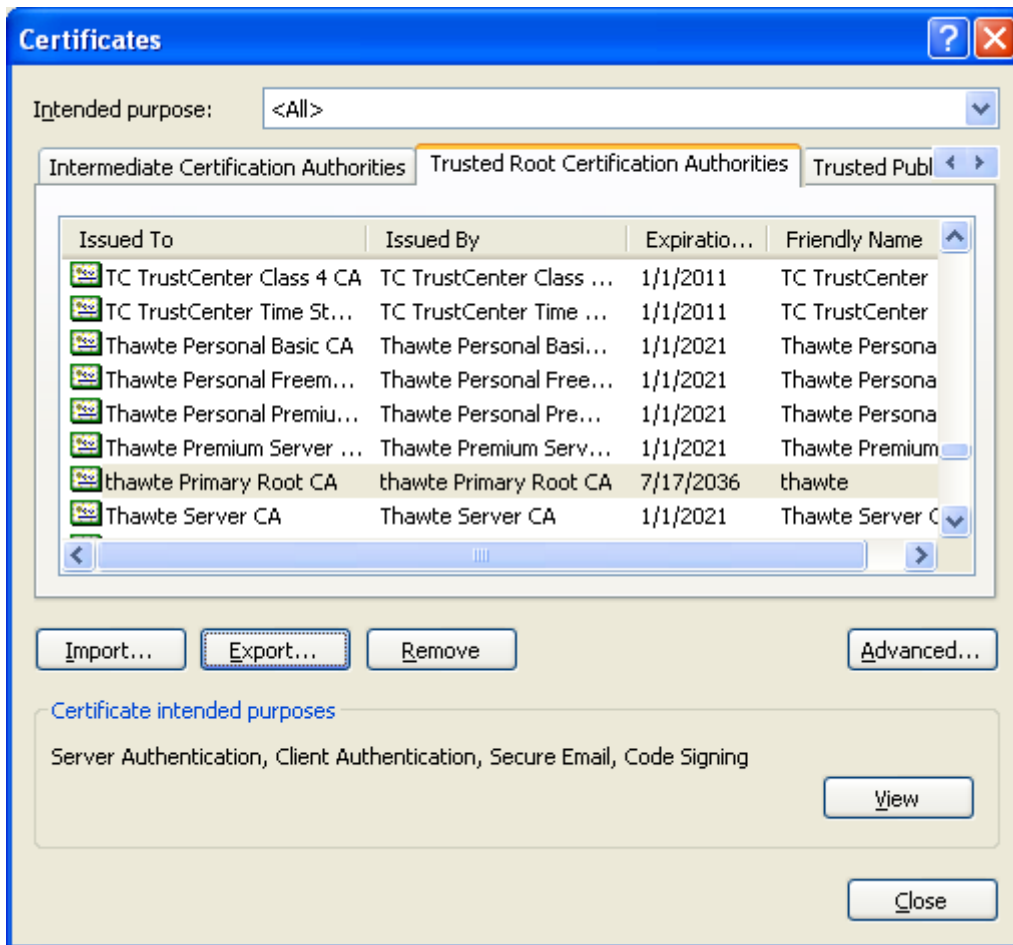
Next >



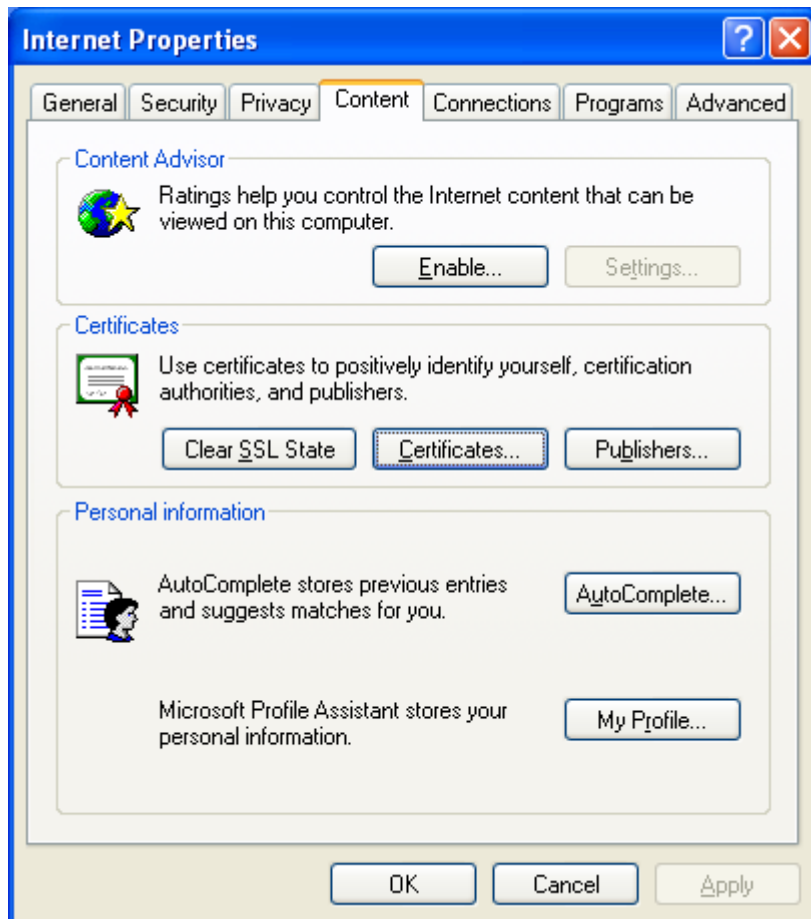
Finish



OK

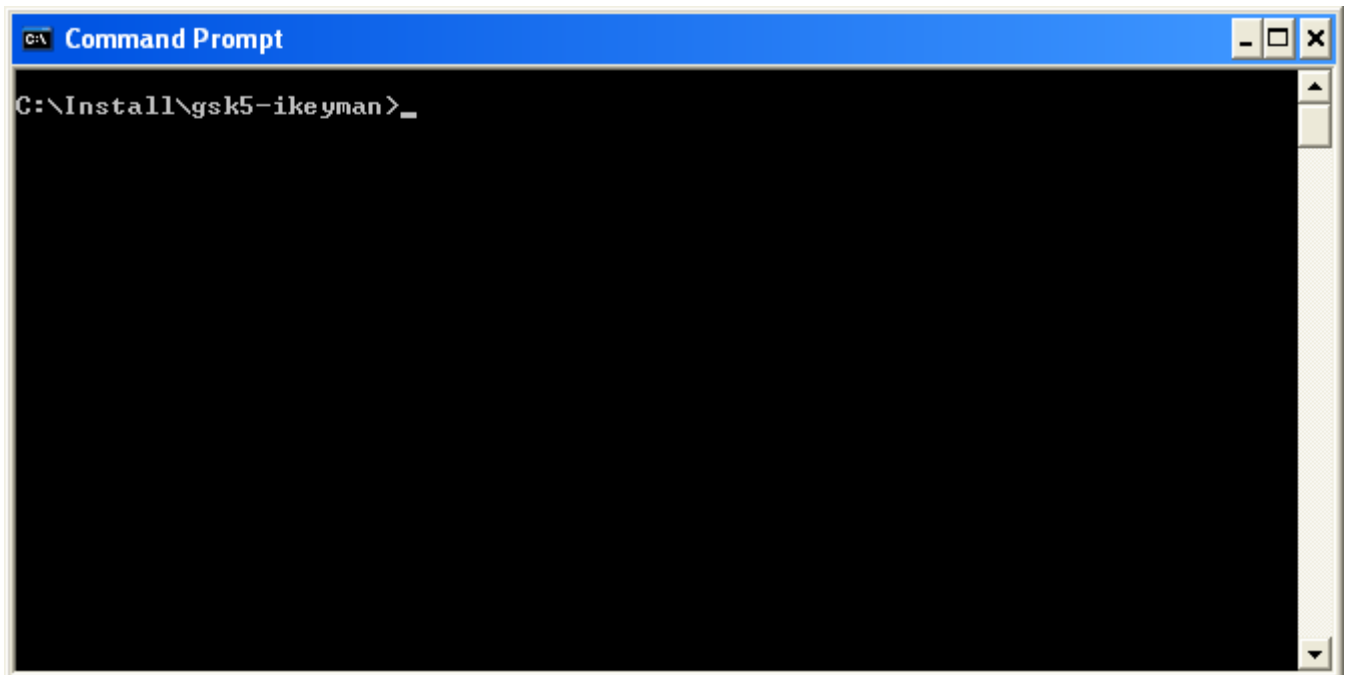


Close

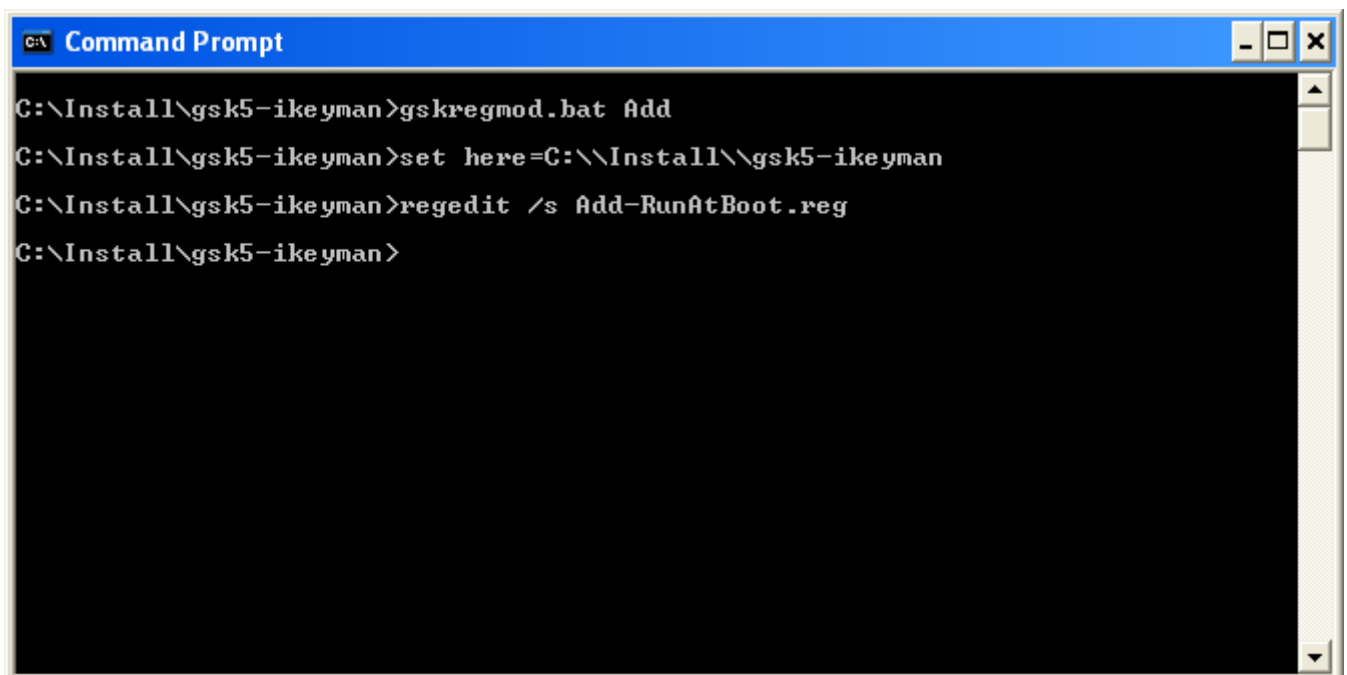


OK

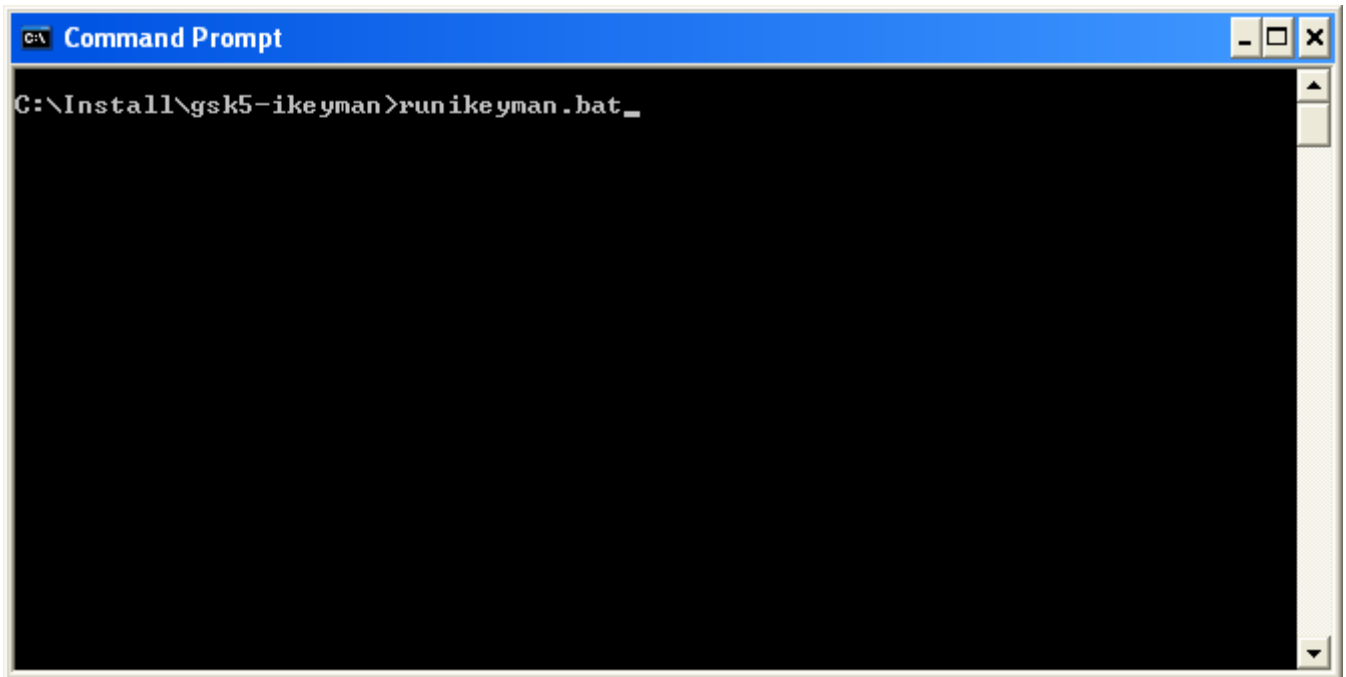
## Run iKeyman to create new kyrfile and then Add and Import certificate information



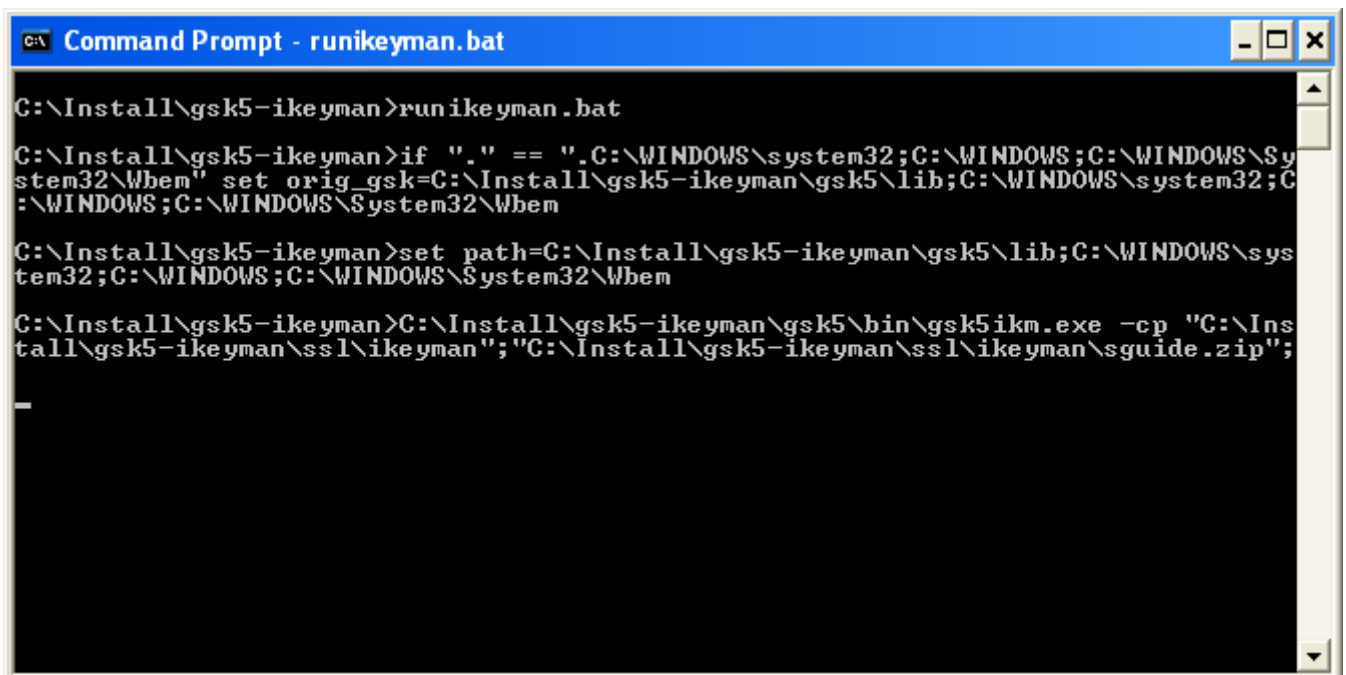
```
C:\ Install\gsk5-ikeyman > _
```



```
C:\ Install\gsk5-ikeyman > gskregmod.bat Add  
C:\ Install\gsk5-ikeyman > set here=C:\Install\gsk5-ikeyman  
C:\ Install\gsk5-ikeyman > regedit /s Add-RunAtBoot.reg  
C:\ Install\gsk5-ikeyman >
```

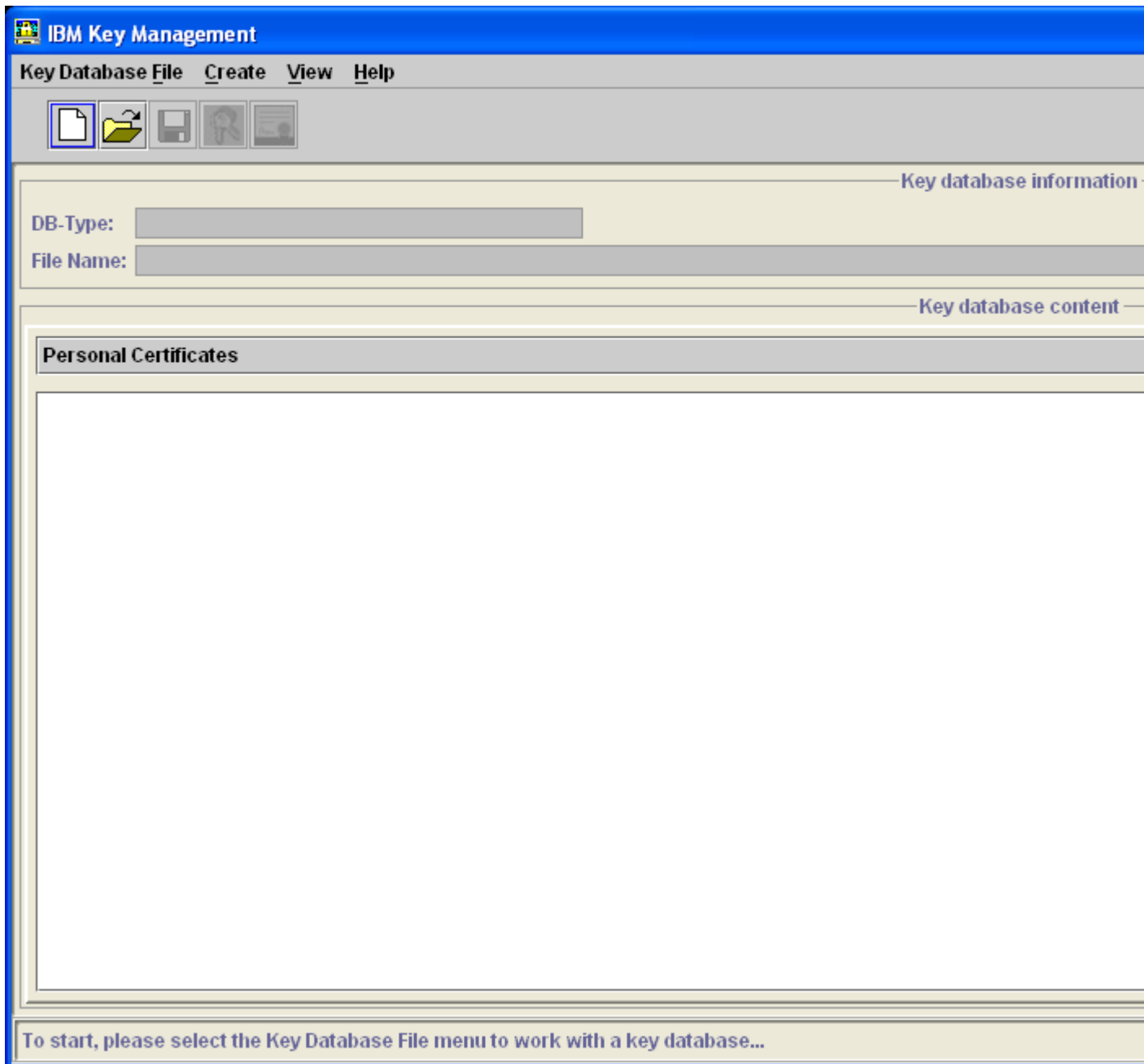


```
C:\Install\gsk5-ikeyman>runikeyman.bat_
```



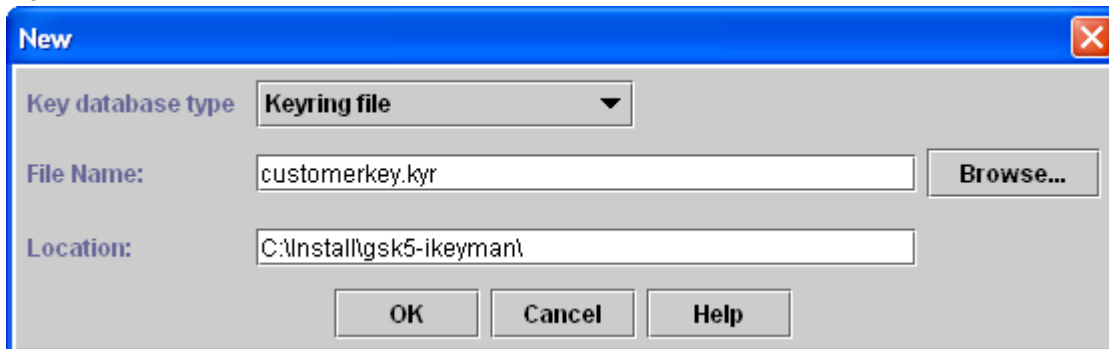
```
C:\Install\gsk5-ikeyman>runikeyman.bat
C:\Install\gsk5-ikeyman>if "." == ".C:\WINDOWS\system32;C:\WINDOWS;C:\WINDOWS\System32\Wbem" set orig_gsk=C:\Install\gsk5-ikeyman\gsk5\lib;C:\WINDOWS\system32;C:\WINDOWS;C:\WINDOWS\System32\Wbem
C:\Install\gsk5-ikeyman>set path=C:\Install\gsk5-ikeyman\gsk5\lib;C:\WINDOWS\system32;C:\WINDOWS;C:\WINDOWS\System32\Wbem
C:\Install\gsk5-ikeyman>C:\Install\gsk5-ikeyman\gsk5\bin\gsk5ikm.exe -cp "C:\Install\gsk5-ikeyman\ssl\ikeyman";"C:\Install\gsk5-ikeyman\ssl\ikeyman\sguide.zip";
```

Could take a while to start



Key Database File

New



OK


**Password Prompt** [X]

Password: [\*\*\*\*\*]

Confirm Password: [\*\*\*\*\*]

Set expiration time? [60] Days

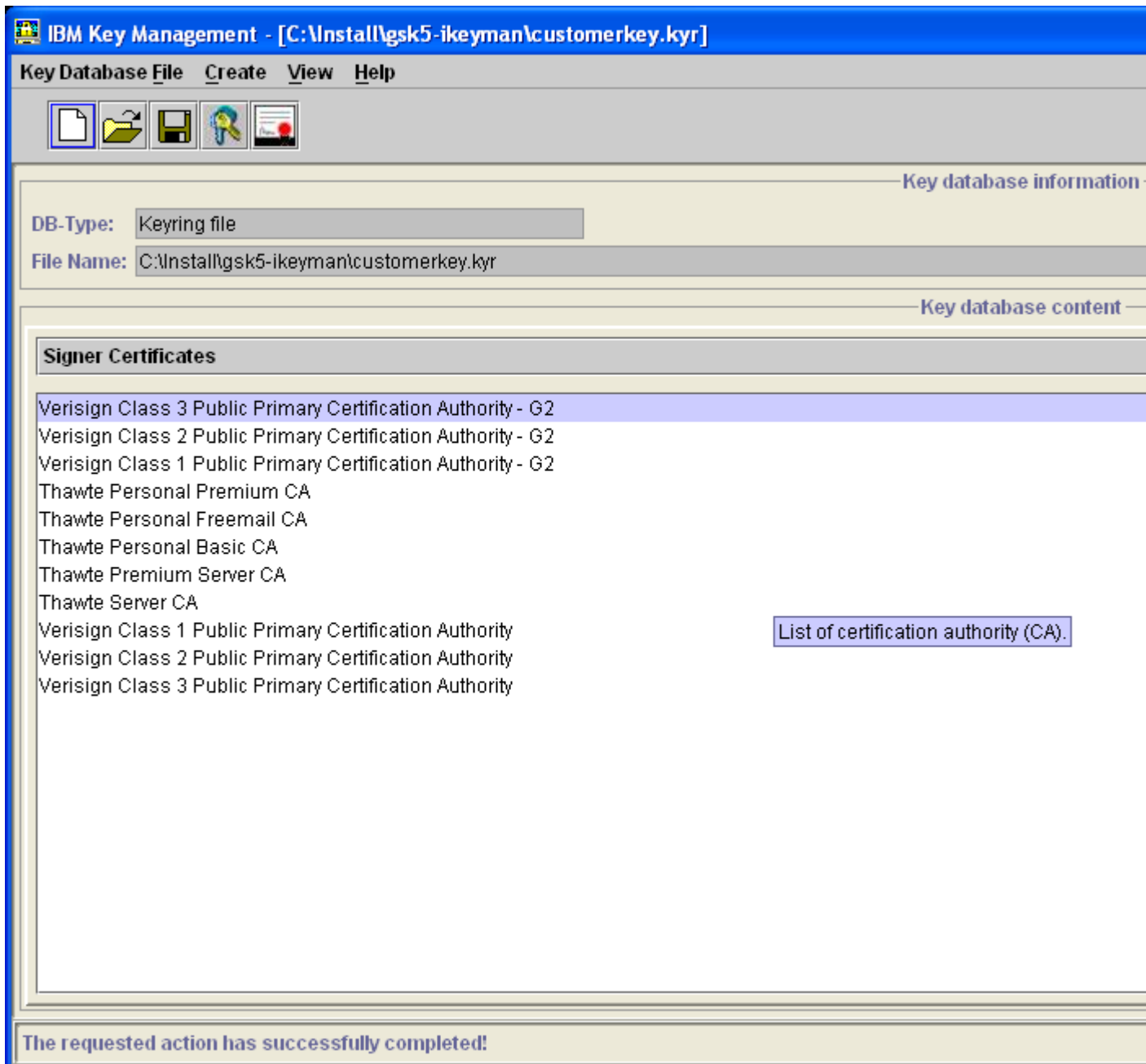
Password Strength:



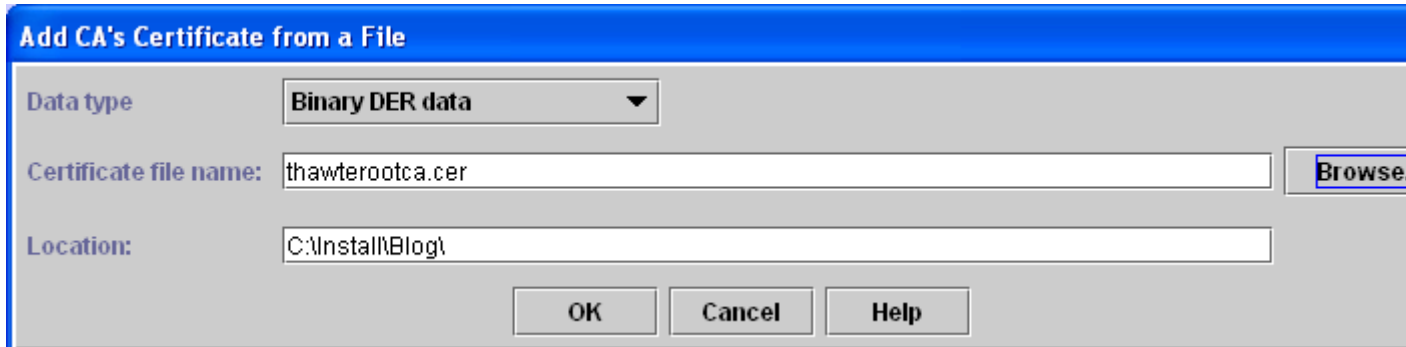
[OK] [Reset] [Cancel] [Help]

OK



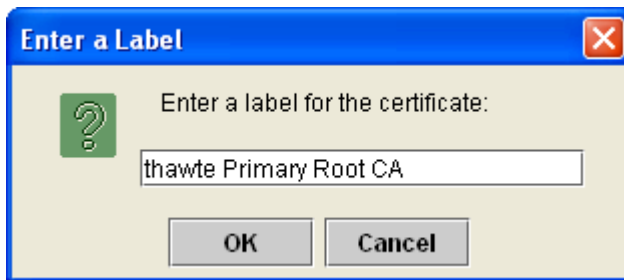


Add

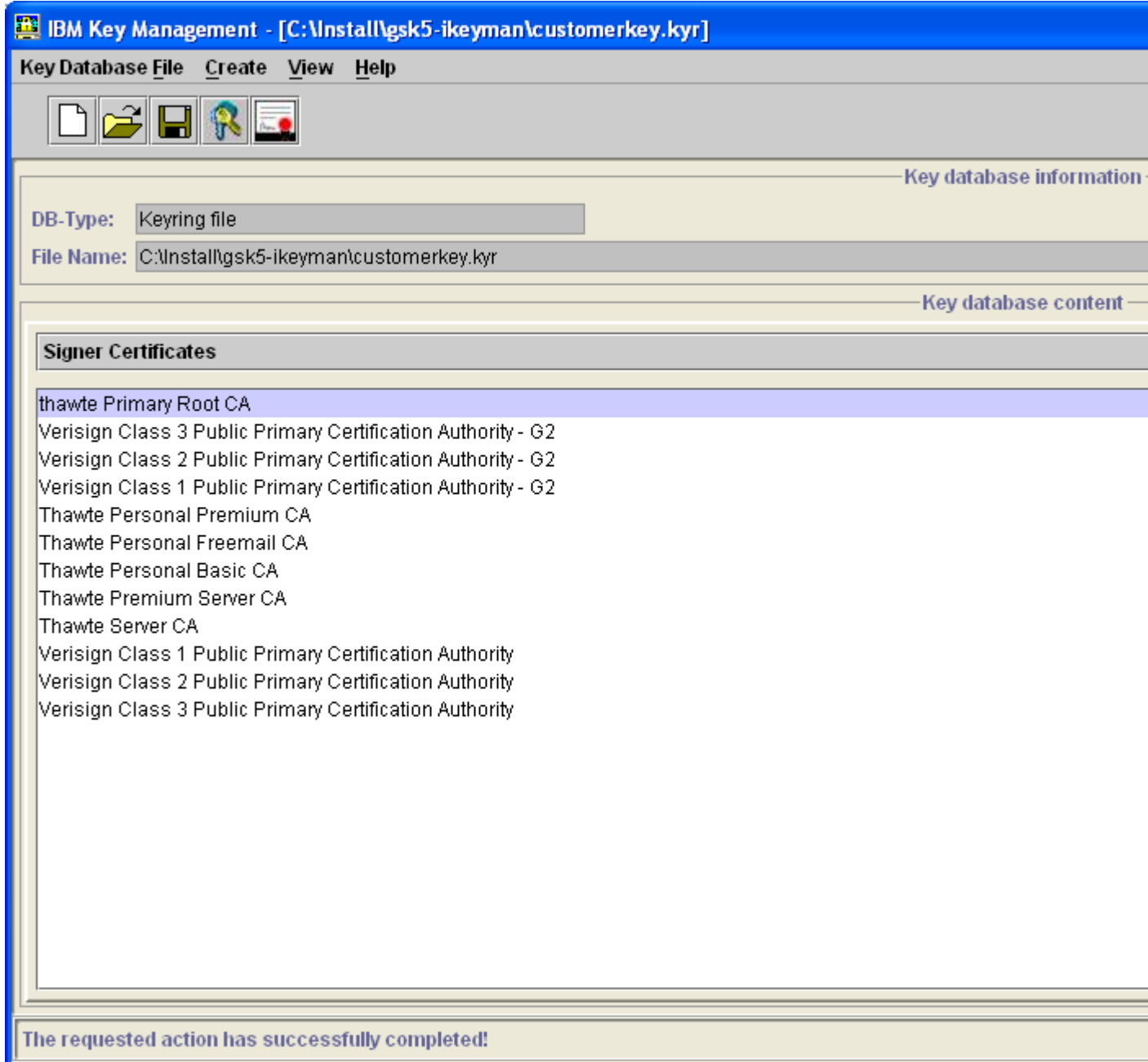


OK

Use the label that you wrote down earlier



OK



Add

**Add CA's Certificate from a File**

Data type:


Certificate file name:

Location:

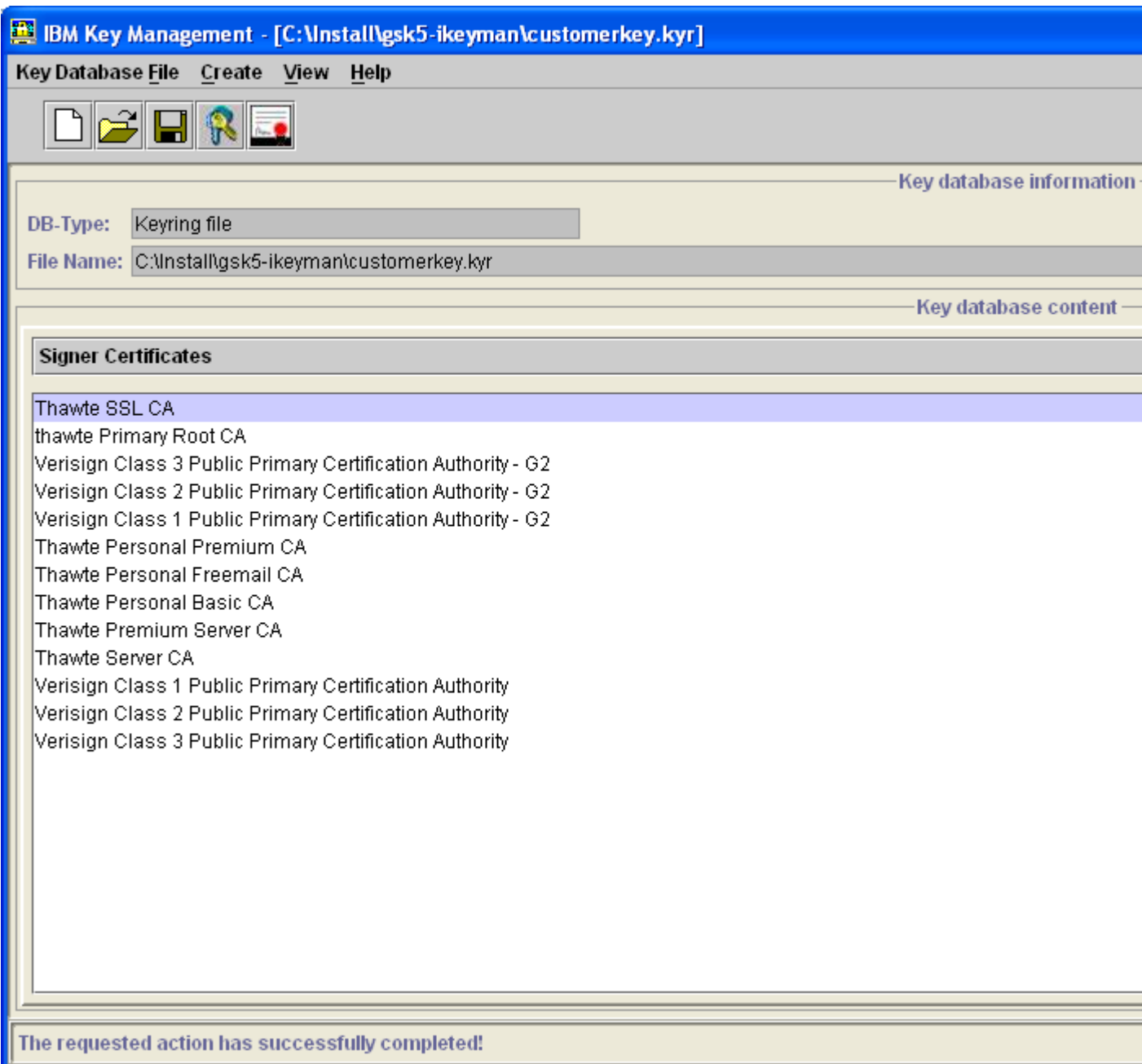
OK

Use the label that you wrote down earlier

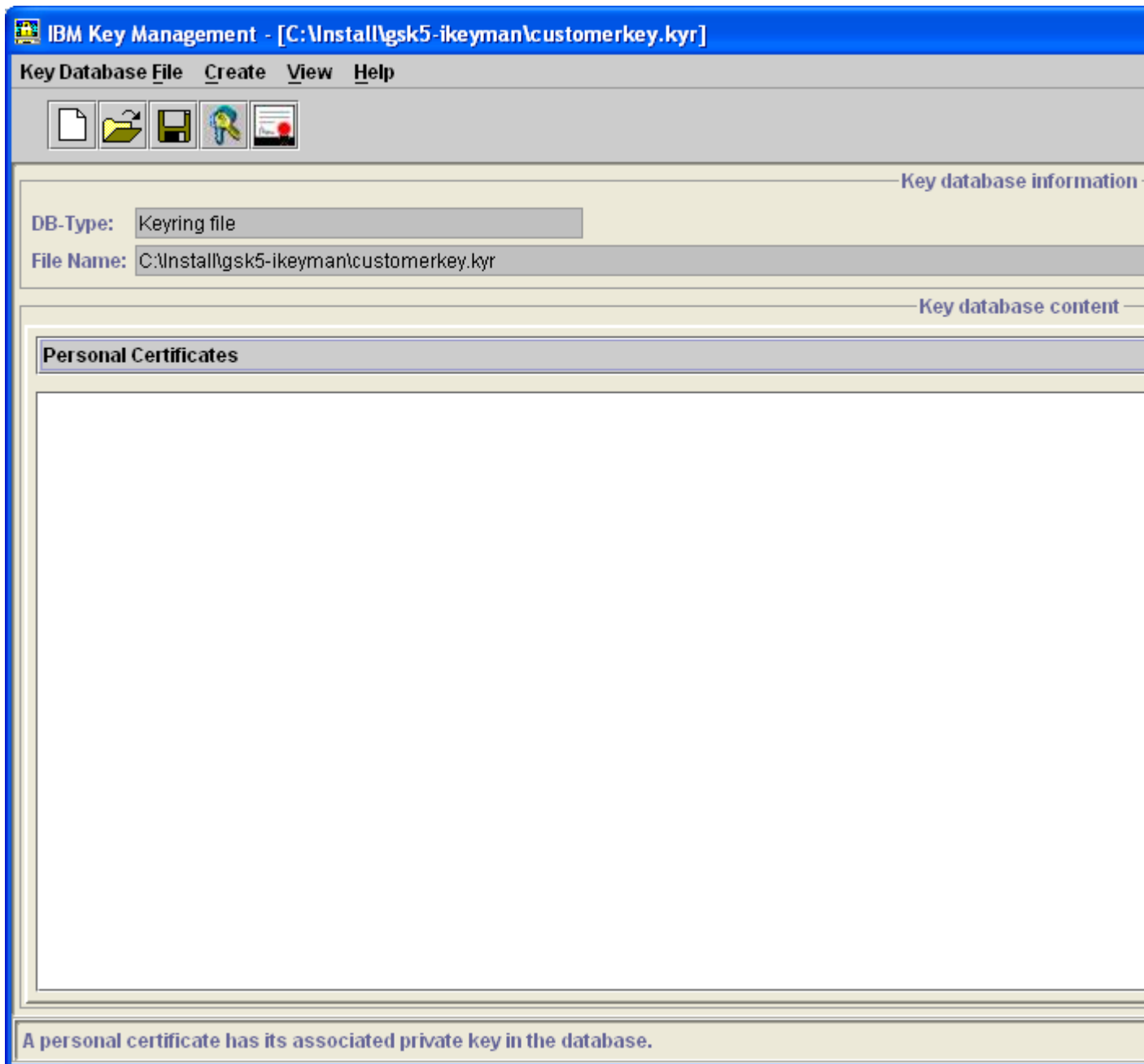
**Enter a Label**

 Enter a label for the certificate:

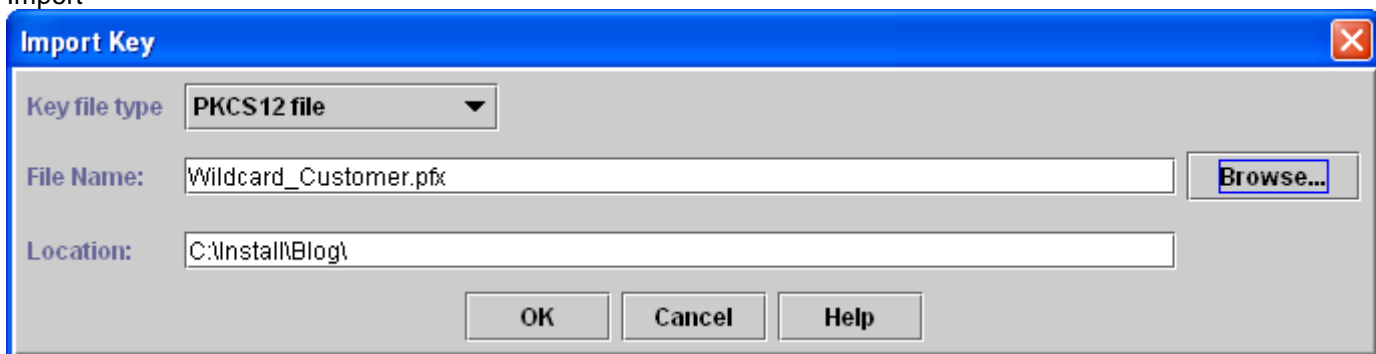
OK



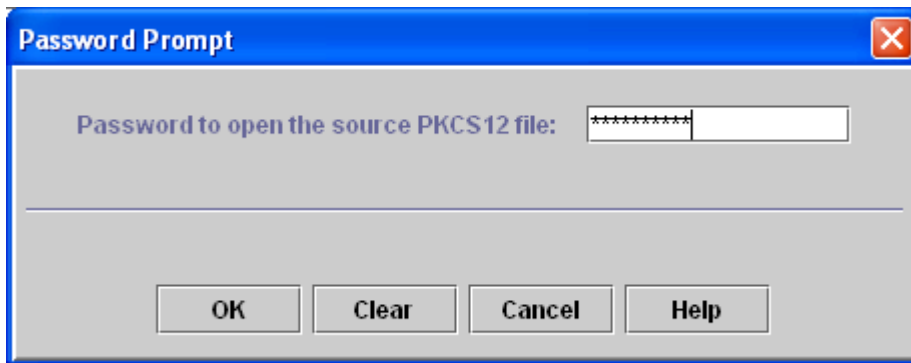
Switch to... Personal Certificates



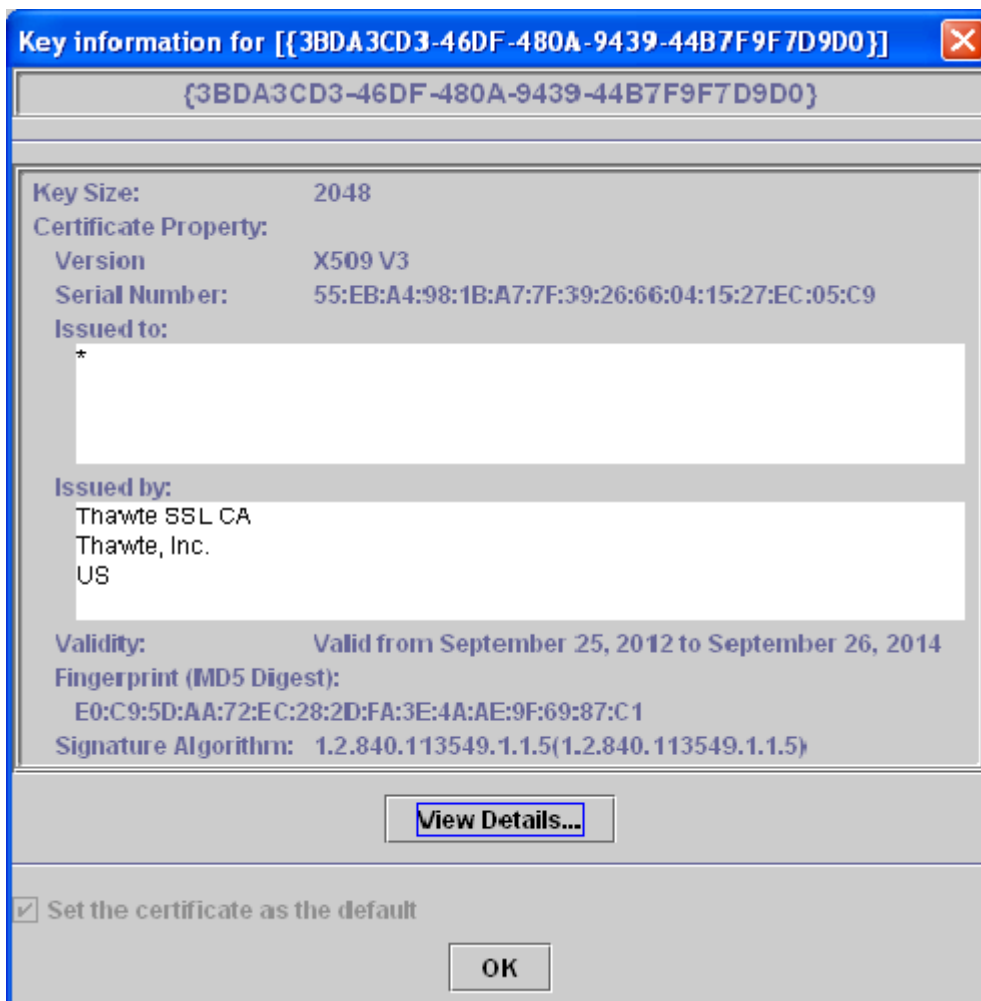
Import



OK



OK  
View/Edit



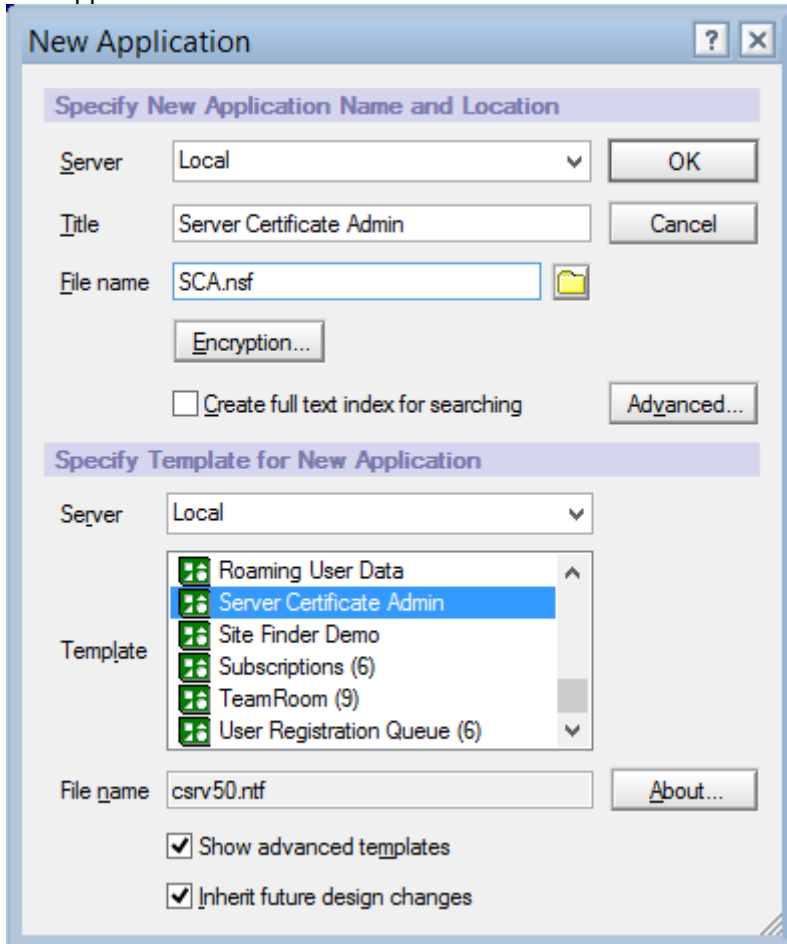
OK  
Key Database File  
Exit

## Check your file and add sth file to enable it for Domino use

Copy customerkey.kyr to your Notes Data directory on your client

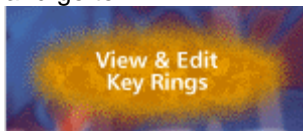
From your Notes client use:

File\Application\New

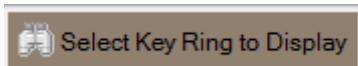


OK

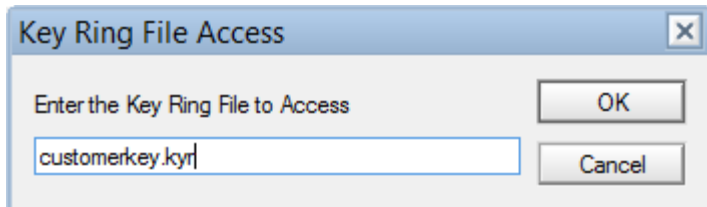
Open the newly created database  
and go to:



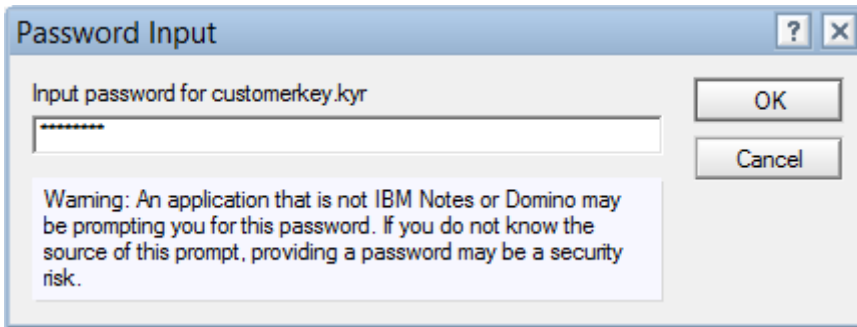
Choose



and

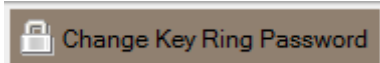


OK

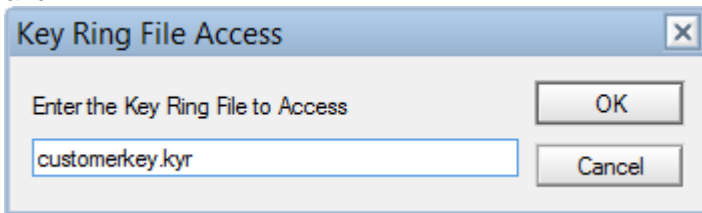


OK

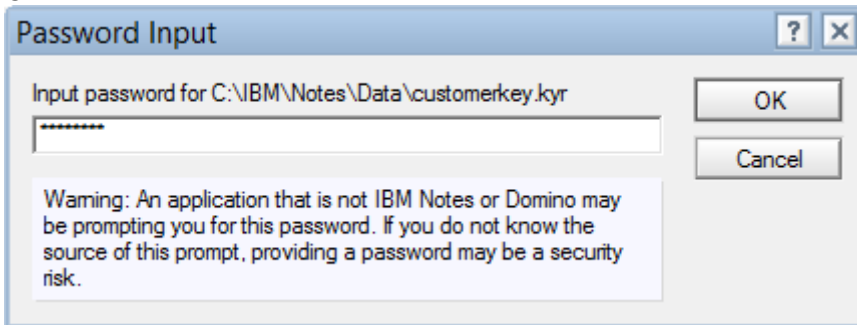
Choose



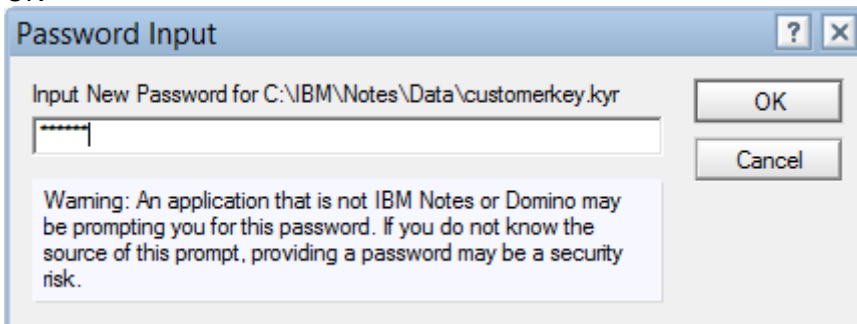
and



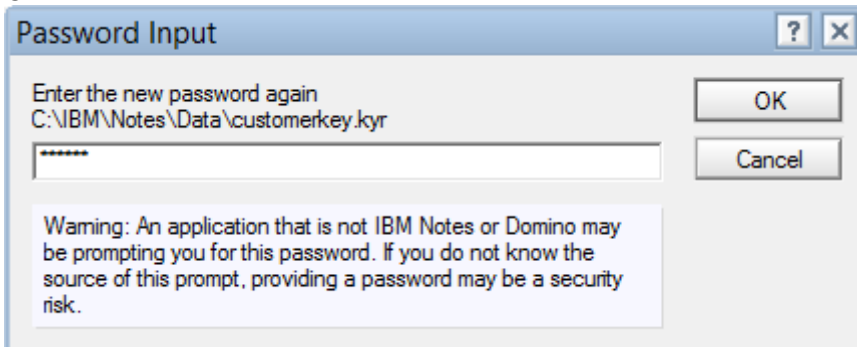
OK



OK

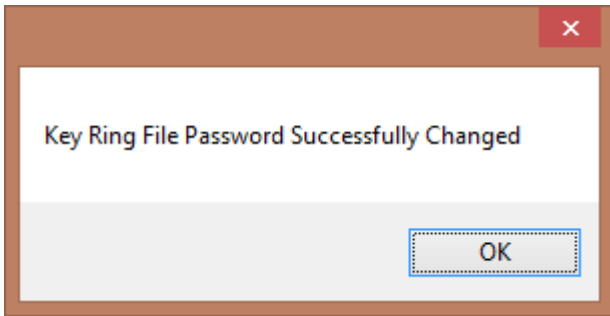


OK



OK





You should now also have a customerkey.sth file in your data directory, please check that you have! If you don't you have not followed the instructions.

Click on:

**Site Certificates**

{3BDA3CD3-46DF-480A-9439-44B7F9F7D9D0} No

should show something like this:

Certificate Information

---

Key Ring & Certificate		
Key Ring File Name	C:\IBM\Notes\Data\customerkey.kyr	
Certificate Label	{3BDA3CD3-46DF-480A-9439-44B7F9F7D9D0}	
Key Size	2048	

Certificate Subject & Issuer		
	Certificate Subject	Certificate Issuer
Common Name	*. [redacted]	Thawte SSL CA
Organization	[redacted]	Thawte, Inc.
Organizational Unit	[redacted]	
City	[redacted]	
State	[redacted]	
Country	[redacted]	US

## Implement the files on the server

Copy both kyr and sth files to the Servers Data Directory

Now in your Internet sites configuration

SSL Options

Key file name:

Add the name of your kyr file as Key file name:

Also modify:

SSL Security

SSL ciphers: RC4 encryption with 128-bit key and MD5 MAC  
RC4 encryption with 128-bit key and SHA-1 MAC  
Triple DES encryption with 168-bit key and SHA-1 MAC  
DES encryption with 56-bit key and SHA-1 MAC  
RC4 encryption with 40-bit key and MD5 MAC

and uncheck

- DES encryption with 56-bit key and SHA-1 MAC
- RC4 encryption with 40-bit key and MD5 MAC

Save to avoid messages on the server console and in the log.

If you are not using internet sites change in the corresponding sections in your server document.

Also, in the server document, make sure that you have enabled SSL in the Internet Ports.... section.

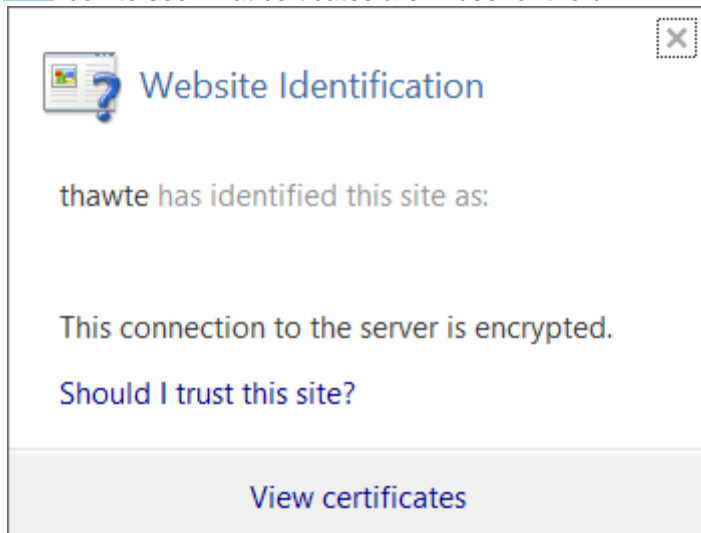
You could then restart your http with the following from the Live console on the server:  
restart task http

## Check out if it works

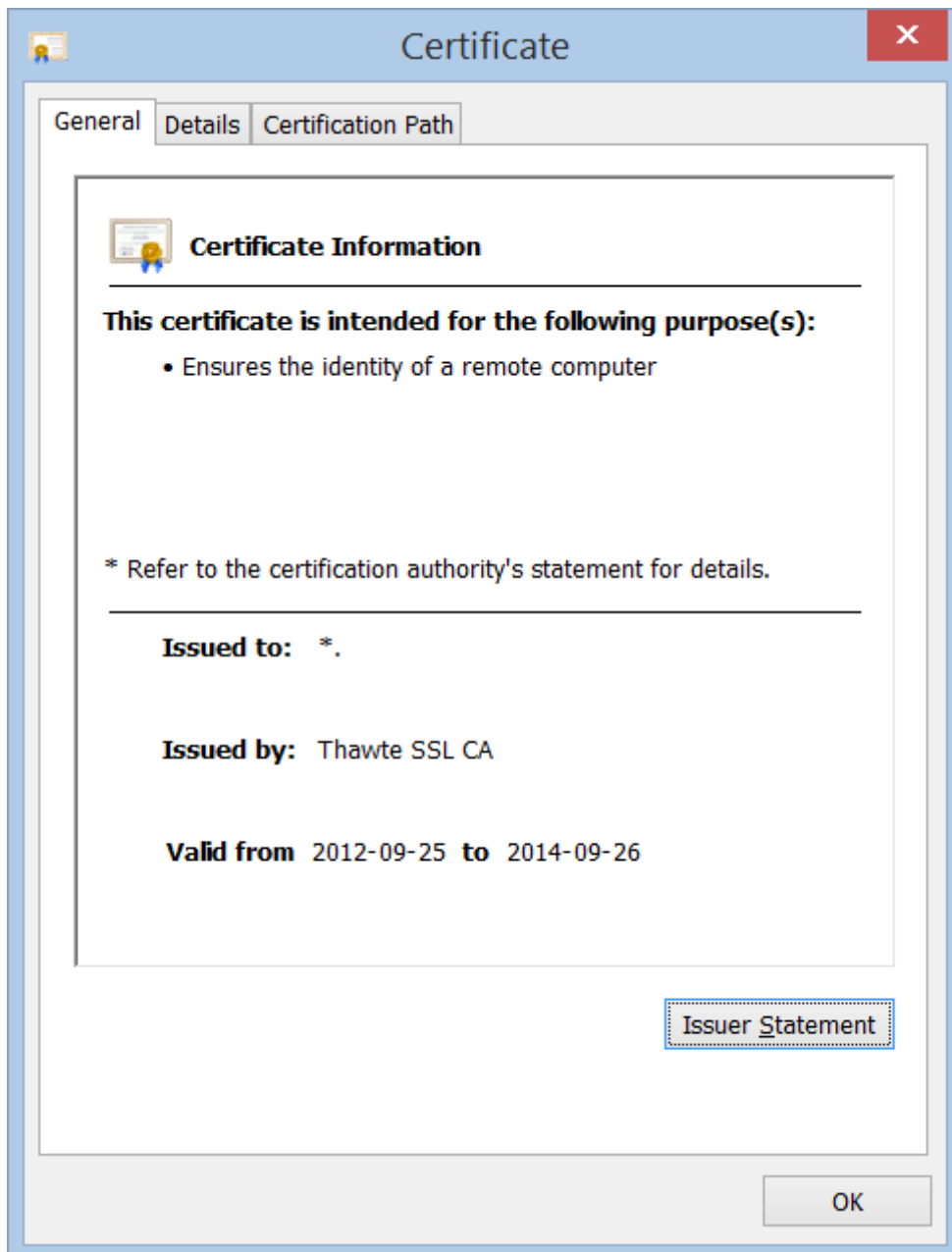
To check this out go to <https://yourserver.yourdomain.yoursuffix> and check that everything is OK. In Internet Explorer you can click on the



icon to see what certificates are in use for the url.



View certificates



If you are here now congratulations

## Conclusion