Aanvraag/Installatie servercertificaat Windows via MMC

Disclaimer:

Het aanmaken van een PKCS#10 bestand kan op vele manieren. Bekijk hiervoor de documentatie van de leverancier van uw server. Dit document kan als voorbeeld worden gebruikt voor het aanmaken van een PKCS#10 bestand. En als voorbeeld voor het installeren van het servercertificaat dat u heeft ontvangen. Aan de inhoud van dit document kunnen geen rechten worden ontleend.

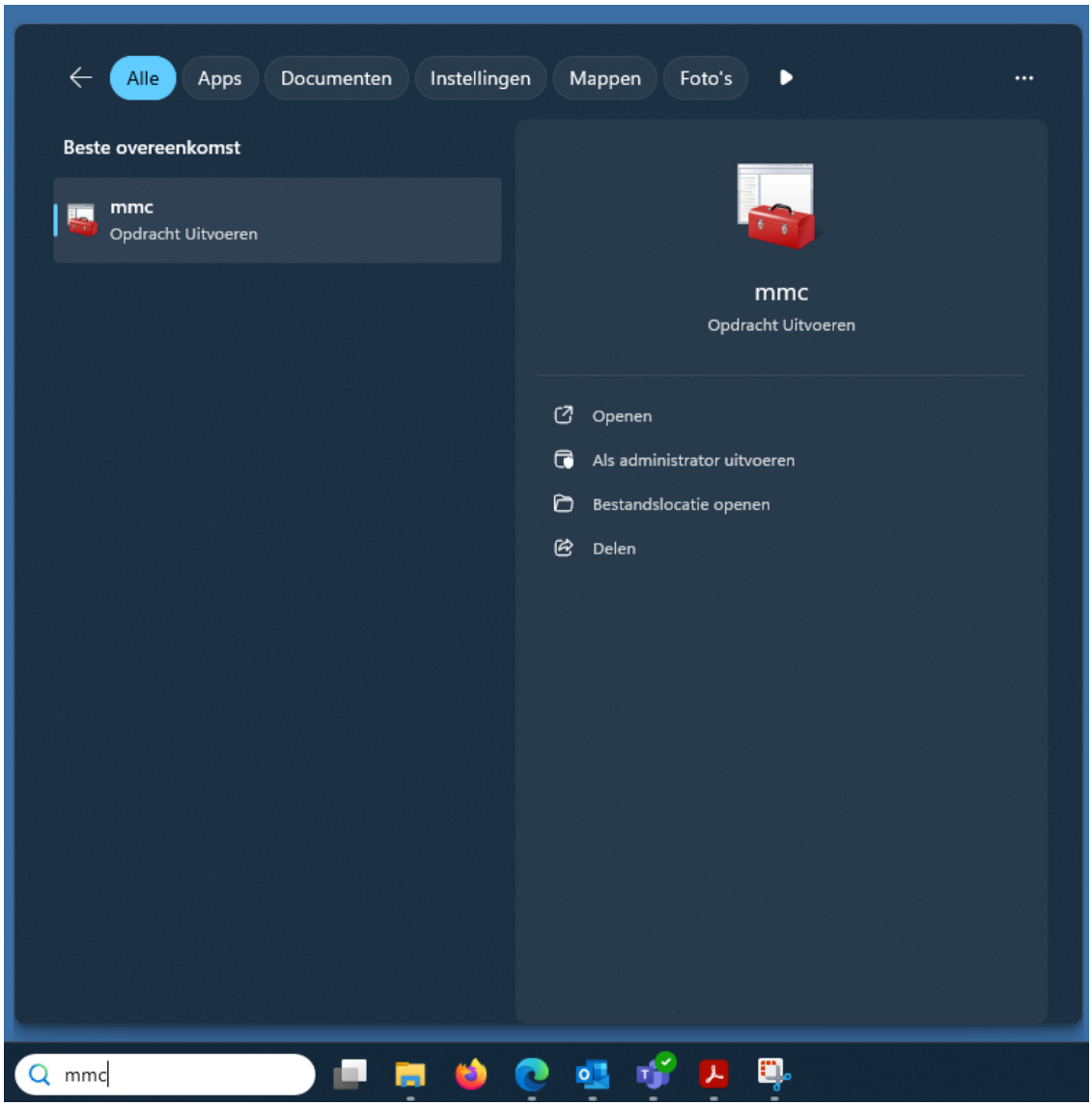
Belangrijk: Heeft u een EPD- of ONS-leverancier? Neem dan contact op met uw EPD- of ONS-leverancier om te achterhalen op welke wijze het PKCS#10-bestand moet worden aangemaakt én met welke domeinnaam het certificaat moet worden aangevraagd.

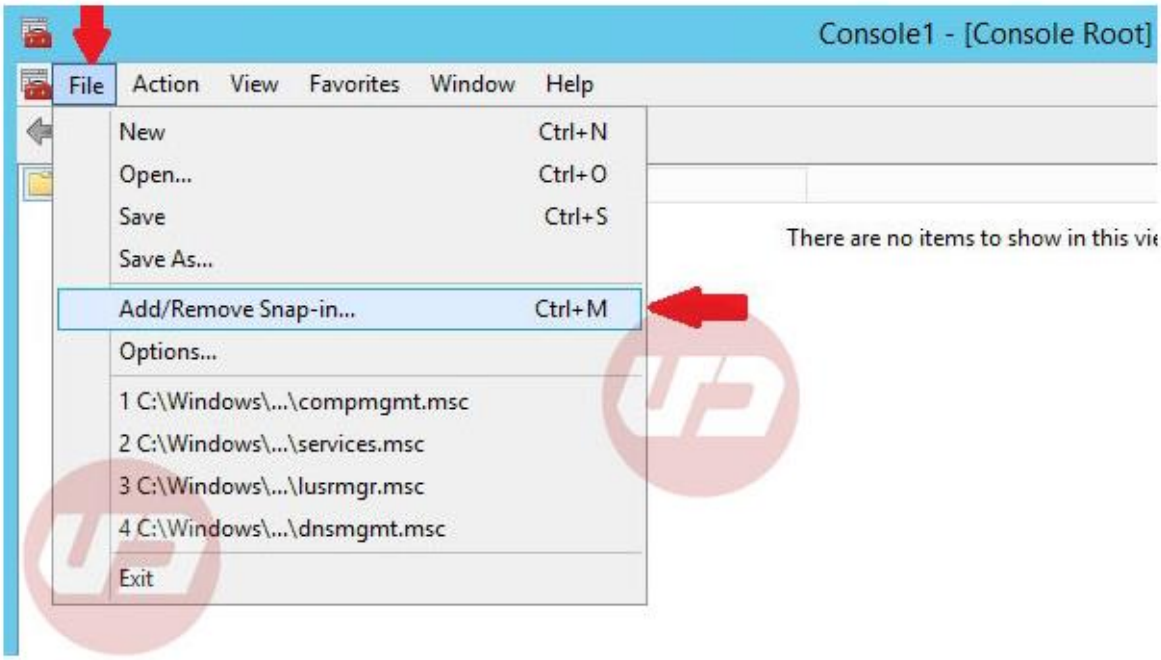
1. Genereren PKCS-10 via MMC
2. Installeren servercertificaat via MMC
3. Controles
4. Exporteren van het certificaat via PFX

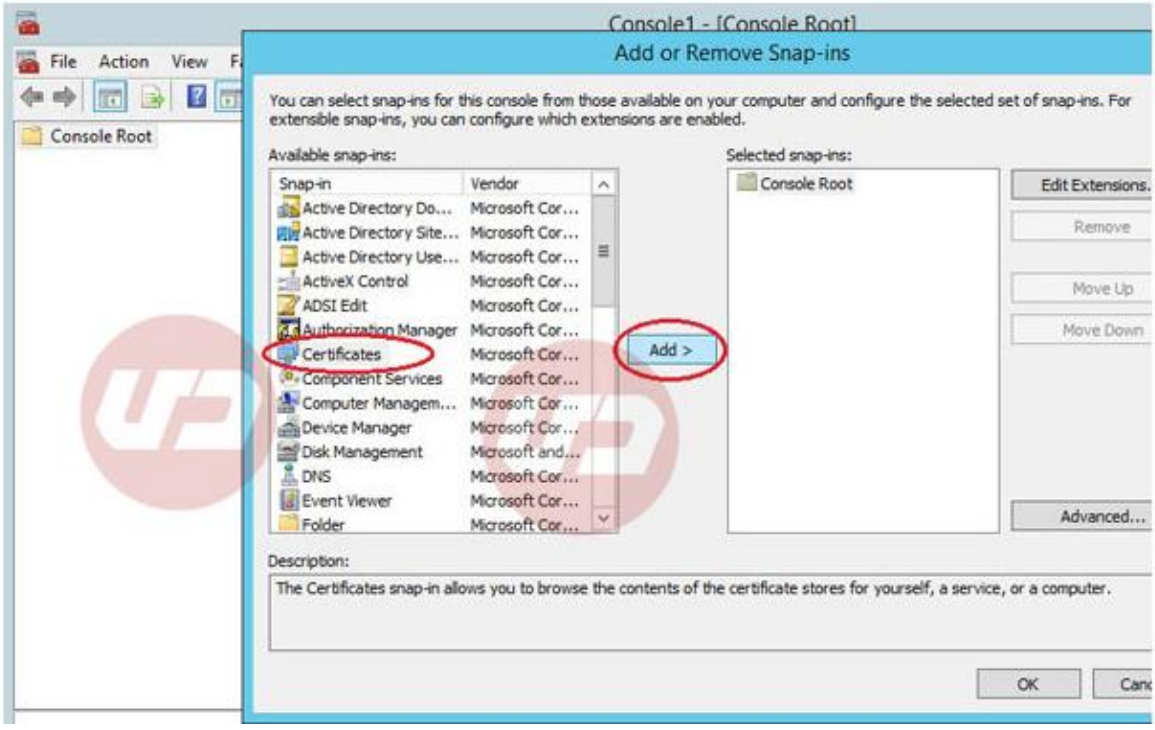
1. Genereren PKCS-10 via MMC

MMC Prepareren

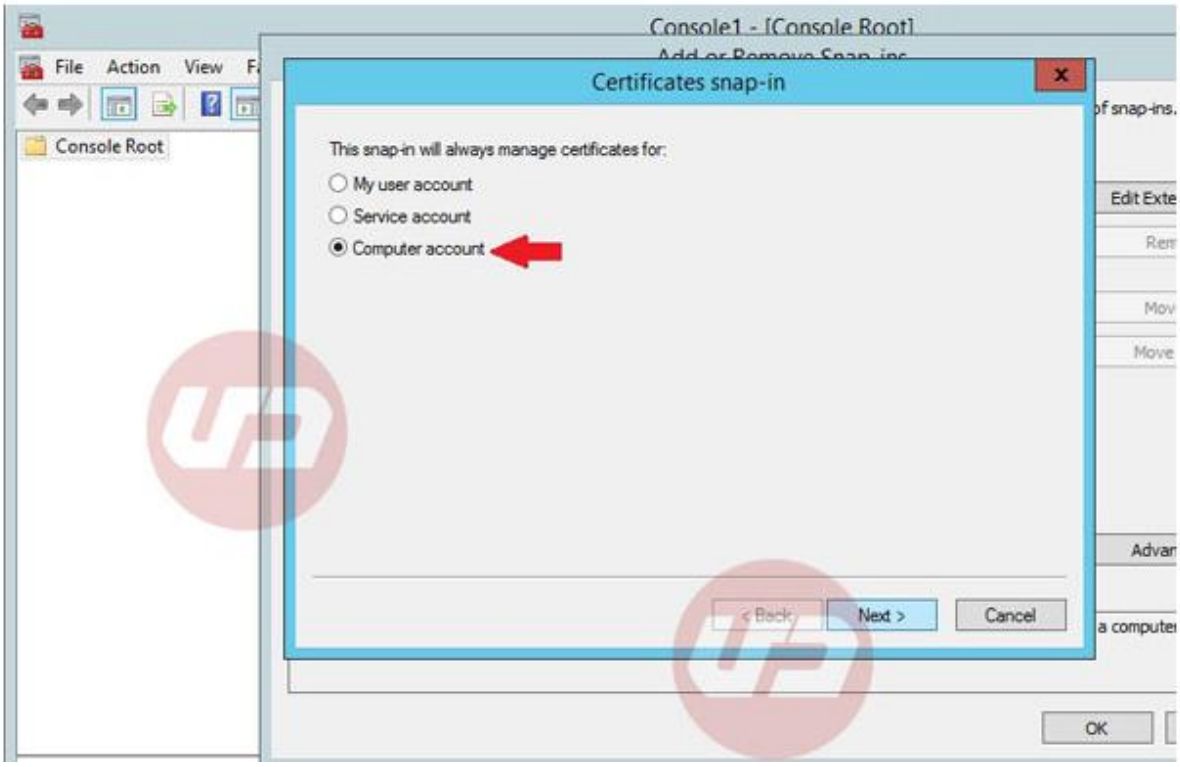
Start MMC



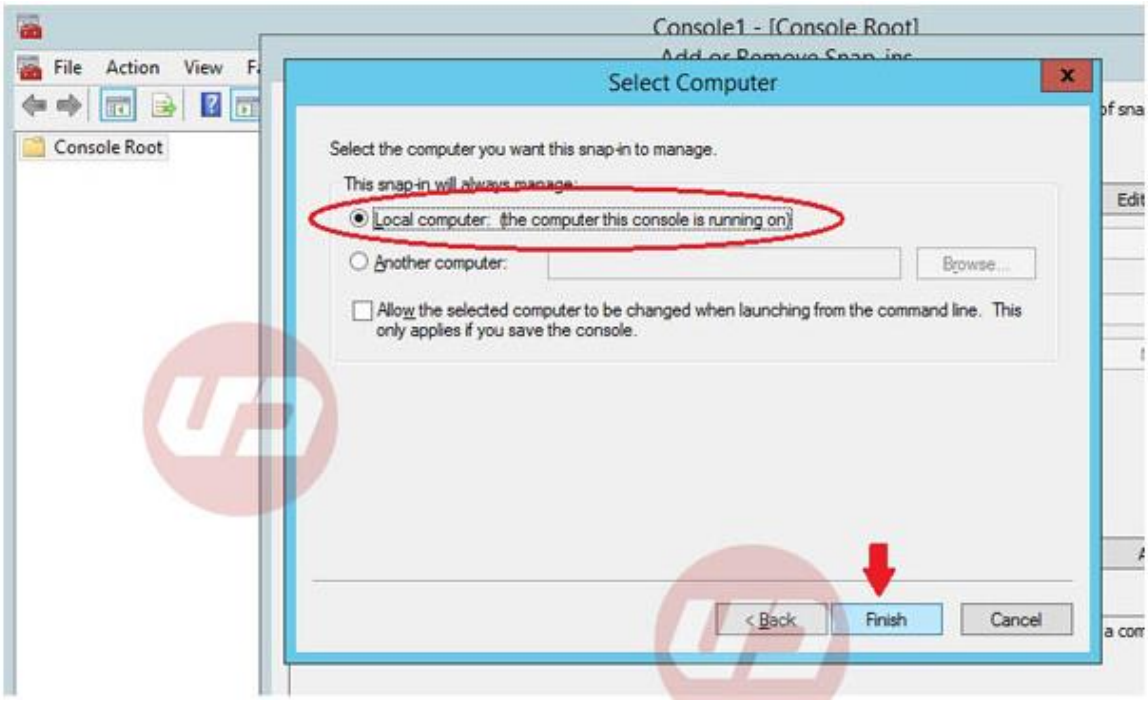


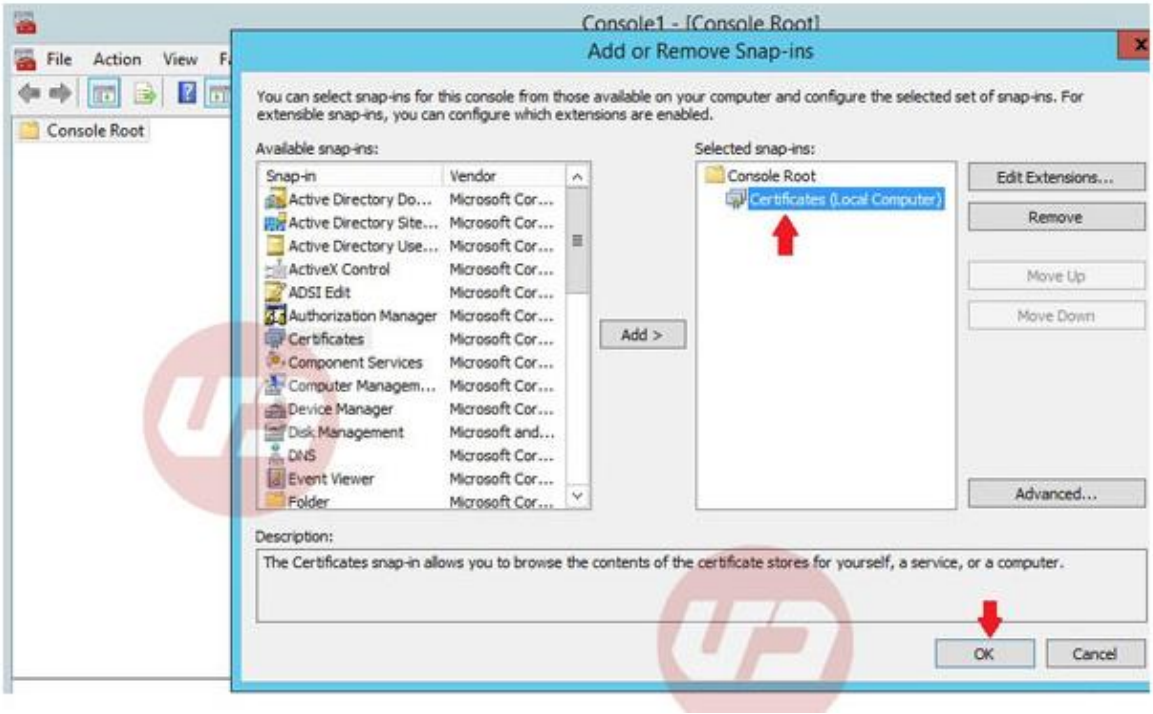


Kies ComputerAccount

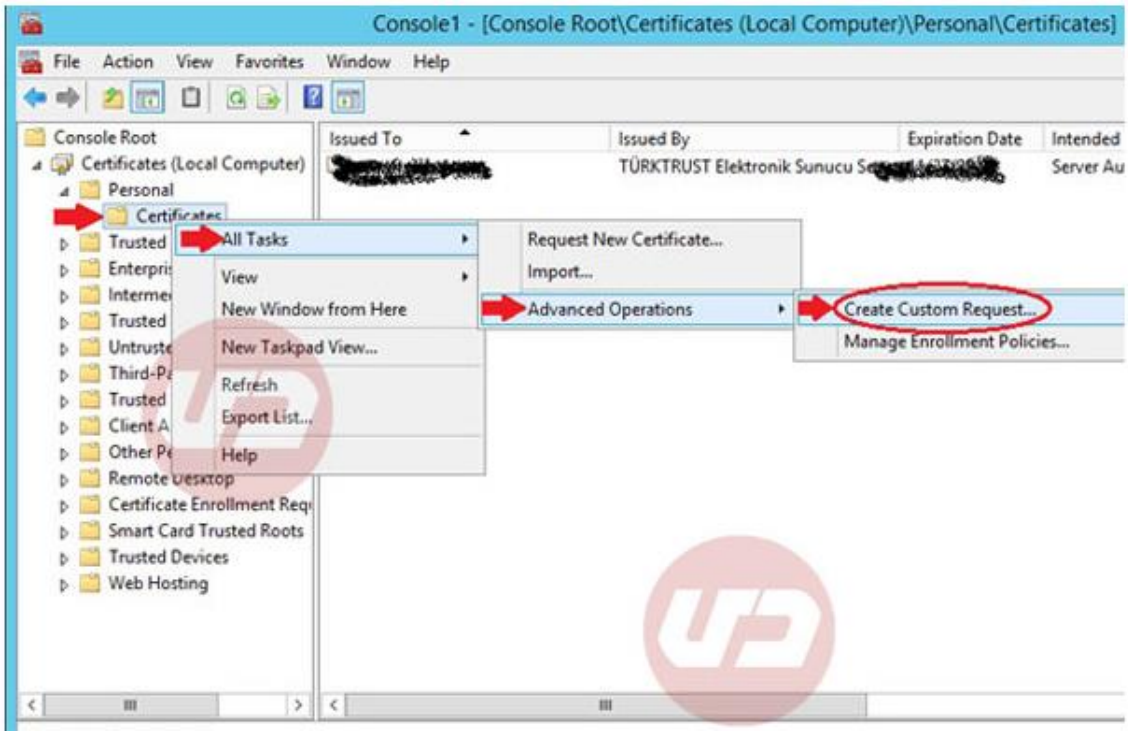


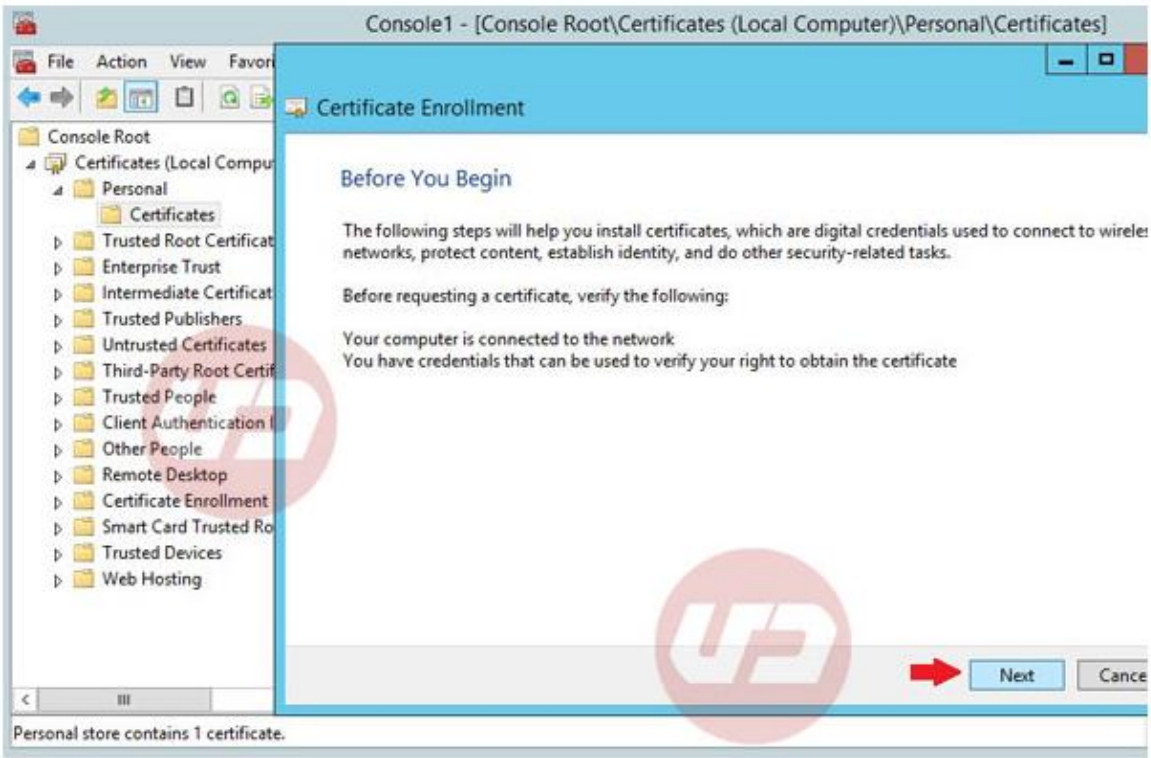
NB: Is deze optie er niet, start MMC dan als Administrator

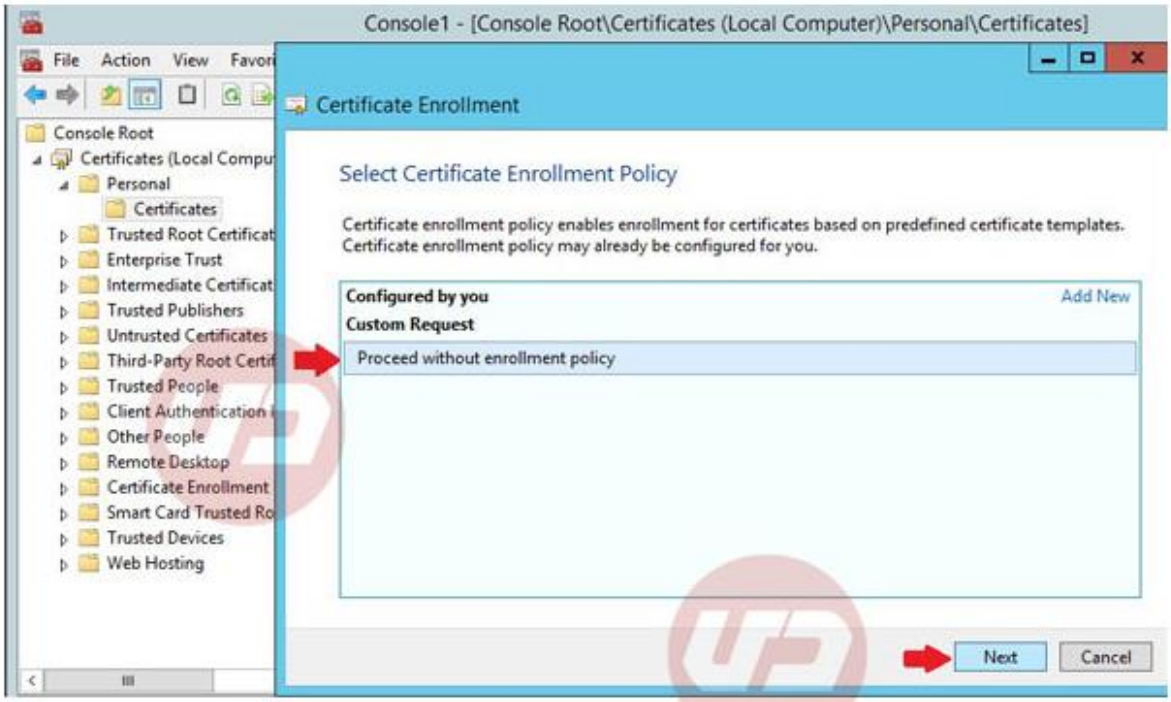


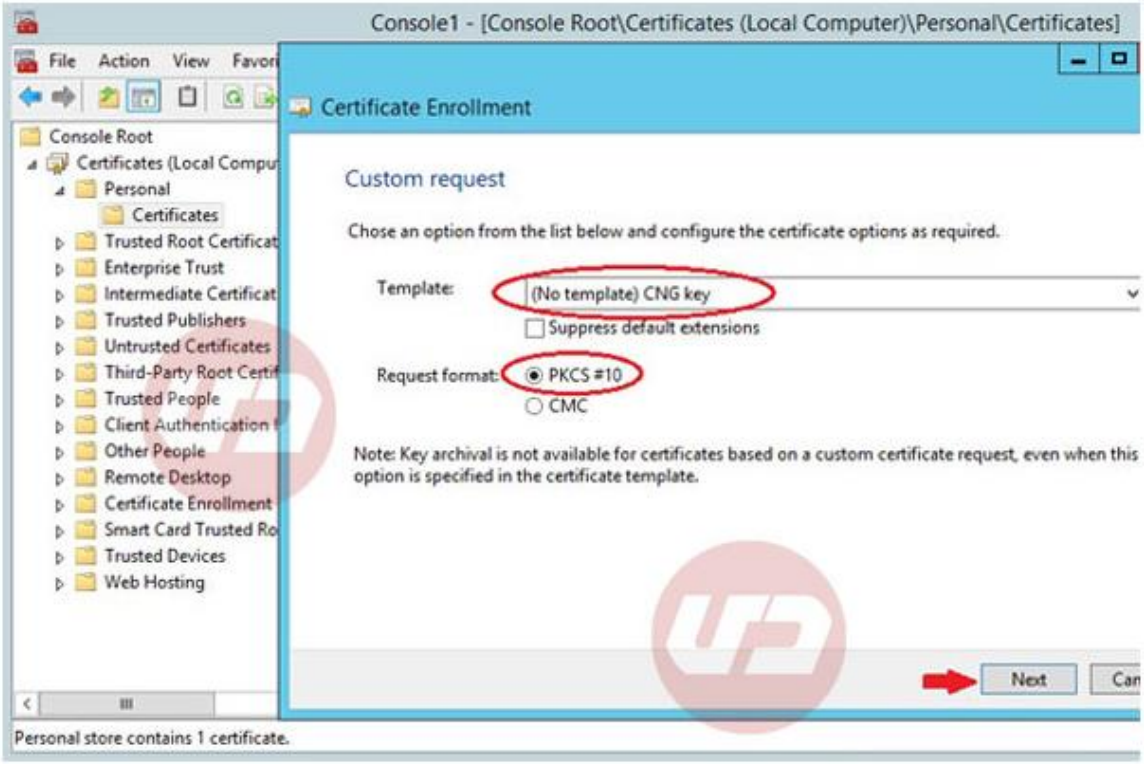

Console1 - [Console Root]
File Action View
Console Root
Add or Remove Snap-ins
You can select snap-ins for this console from those available on your computer and configure the selected set of snap-ins. For extensible snap-ins, you can configure which extensions are enabled.
Available snap-ins:
Snap-in
Vendor
Active Directory Do... Microsoft Cor...
Active Directory Site... Microsoft Cor...
Active Directory Use... Microsoft Cor...
ActiveX Control Microsoft Cor...
ADSI Edit Microsoft Cor...
Authorization Manager Microsoft Cor...
Certificates Microsoft Cor...
Component Services Microsoft Cor...
Computer Managem... Microsoft Cor...
Device Manager Microsoft Cor...
Disk Management Microsoft and...
DNS Microsoft Cor...
Event Viewer Microsoft Cor...
Folder Microsoft Cor...
Add >
Selected snap-ins:
Console Root
Certificates (Local Computer)
Edit Extensions...
Remove
Move Up
Move Down
Advanced...
Description:
The Certificates snap-in allows you to browse the contents of the certificate stores for yourself, a service, or a computer.
OK
Cancel

De aanvraag starten





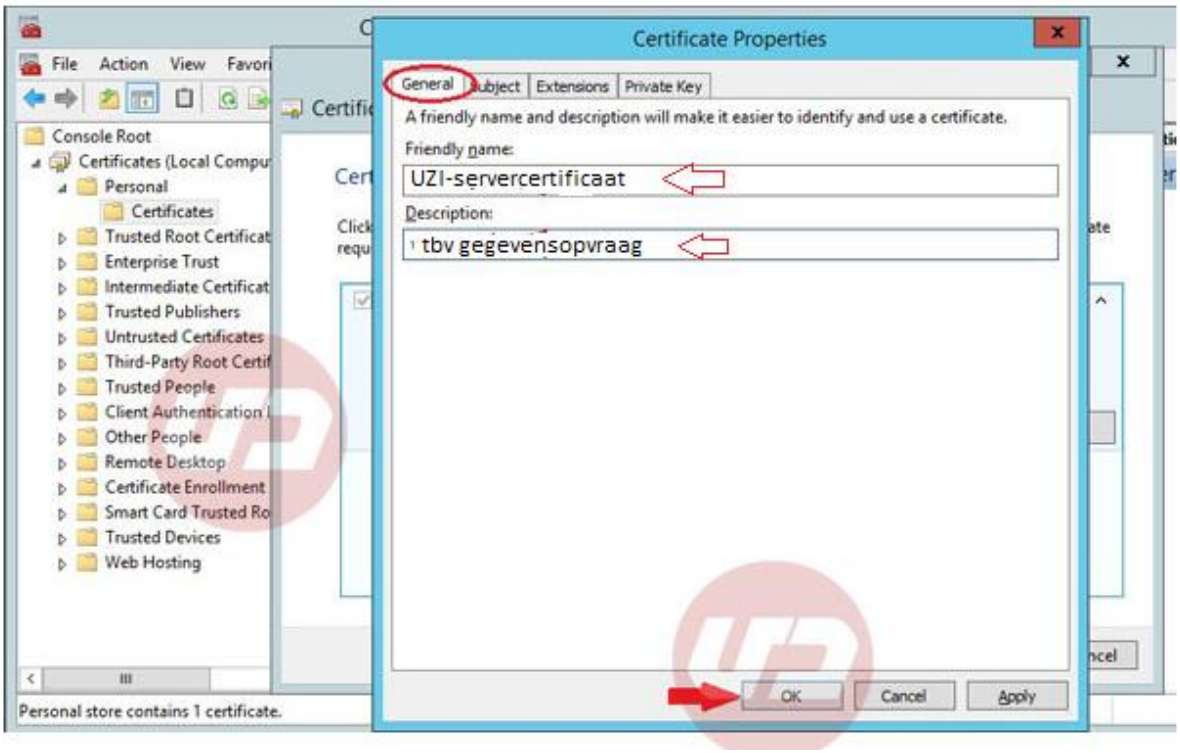

Console1 - [Console Root\Certificates (Local Computer)\Personal\Certificates]
File Action View Favor
Console Root
Certificates (Local Compu
Personal
Certificates
Trusted Root Certificat
Enterprise Trust
Intermediate Certificat
Trusted Publishers
Untrusted Certificates
Third-Party Root Certif
Trusted People
Client Authentication
Other People
Remote Desktop
Certificate Enrollment
Smart Card Trusted Ro
Trusted Devices
Web Hosting
Certificate Enrollment
Select Certificate Enrollment Policy
Certificate enrollment policy enables enrollment for certificates based on predefined certificate templates.
Certificate enrollment policy may already be configured for you.
Configured by you
Add New
Custom Request
Proceed without enrollment policy
Next
Cancel


Console1 - [Console Root\Certificates (Local Computer)\Personal\Certificates]
File Action View Favor
Console Root
Certificates (Local Compu
Personal
Certificates
Trusted Root Certificat
Enterprise Trust
Intermediate Certificat
Trusted Publishers
Untrusted Certificates
Third-Party Root Certif
Trusted People
Client Authentication
Other People
Remote Desktop
Certificate Enrollment
Smart Card Trusted Ro
Trusted Devices
Web Hosting
Certificate Enrollment
Custom request
Chose an option from the list below and configure the certificate options as required.
Template:
(No template) CNG key
Suppress default extensions
Request format:
PKCS #10
CMC
Note: Key archival is not available for certificates based on a custom certificate request, even when this option is specified in the certificate template.
Next
Personal store contains 1 certificate.


Console1 - [Console Root\Certificates (Local Computer)\Personal\Certificates]
File Action View Favori
Console Root
Certificates (Local Compu
Personal
Certificates
Trusted Root Certificat
Enterprise Trust
Intermediate Certificat
Trusted Publishers
Untrusted Certificates
Third-Party Root Certif
Trusted People
Client Authentication
Other People
Remote Desktop
Certificate Enrollment
Smart Card Trusted Ro
Trusted Devices
Web Hosting
Certificate Enrollment
Certificate Information
Click Next to use the options already selected for this template, or click Details to customize the certificate request, and then click Next.
Custom request
STATUS: Available
Details
Next
Cancel


Console1 - [Console Root\Certificates (Local Computer)\Personal\Certificates]
File Action View Favori
Console Root
Certificates (Local Compu
Personal
Certificates
Trusted Root Certificat
Enterprise Trust
Intermediate Certificat
Trusted Publishers
Untrusted Certificates
Third-Party Root Certif
Trusted People
Client Authentication
Other People
Remote Desktop
Certificate Enrollment
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Trusted Devices
Web Hosting
Certificate Enrollment
Certificate Information
Click Next to use the options already selected for this template, or click Details to customize the certificate request, and then click Next.
Custom request
STATUS: Available
Details
The following options describe the uses and validity period that apply to this type of certificate:
Key usage:
Application policies:
Validity period (days):
Properties
Next
Cancel

De benodigde opties invullen





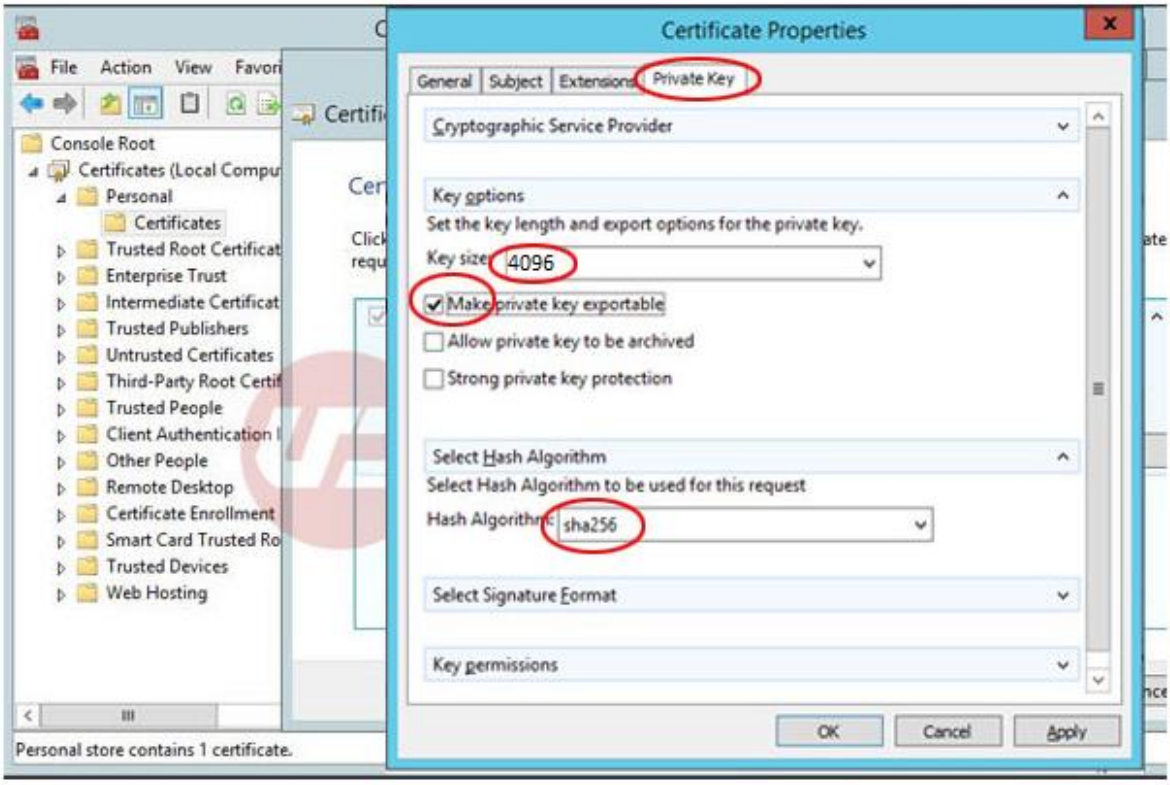
Hier is een voorbeeldnaam ingevuld

Vul in bovenstaande scherm (Subject) de volgende waarden in:

-Common Name
(Voer in het eerste scherm de velden in. Bij “Common Name” moet dezelfde naam opgegeven worden als de systeemnaam (FQDN) op het aanvraagformulier)
-Organization
-Organizational Unit
-Locality (Woonplaats)
-State (Provincie)
-Country

Let op: geen afkortingen gebruiken

En vul bij Private Key het volgende in:

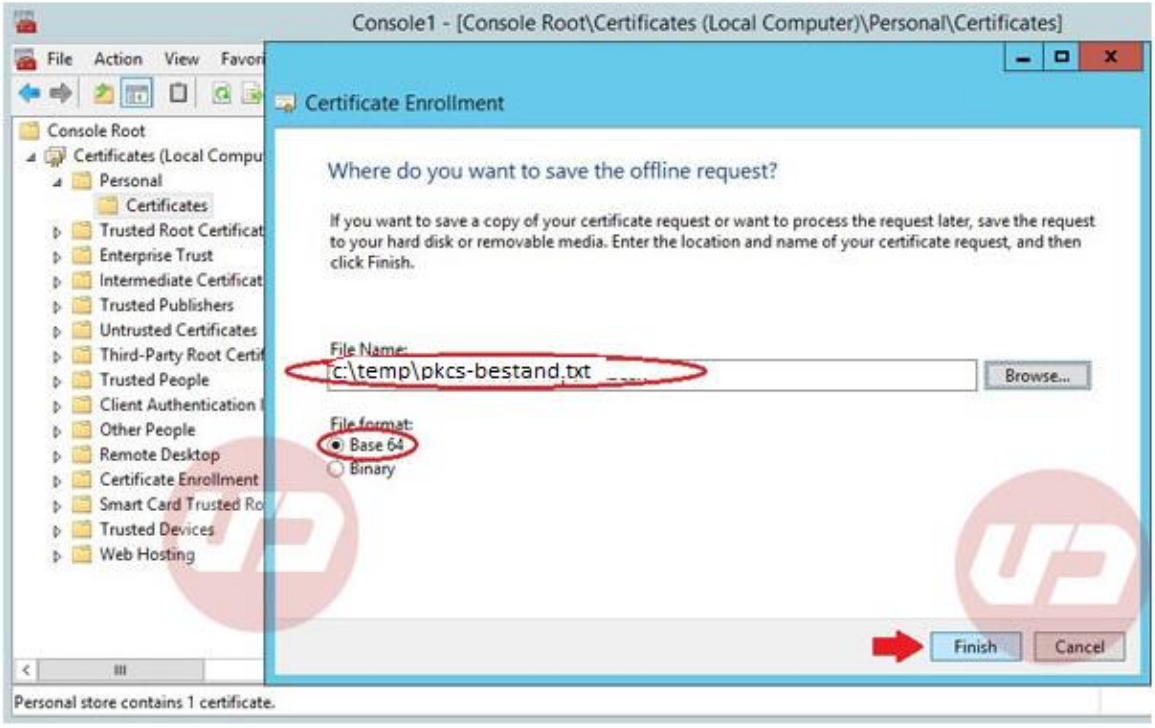


LET OP
Als het servercertificaat op een andere server (computer) geïnstalleerd moet worden dan de server waar het PKCS#10 bestand op gegenereerd is, zorg er dan voor dat het vakje '**Make Private key exportable**' is aangevinkt. Hierdoor kunt u het servercertificaat exporteren als .pfx.

Mocht u zijn vergeten het vakje 'Make Private key exportable' aan te vinken dan is de enige oplossing voor u om het net aangemaakte certificaat in te trekken en een nieuw certificaat met een nieuwe PKCS#10 bestand (met vinkje 'Make private key exportable') aan te vragen.

Note: Houd er rekening mee dat bij het intrekken en opnieuw aanvragen van het certificaat een nieuwe factuur wordt gestuurd.

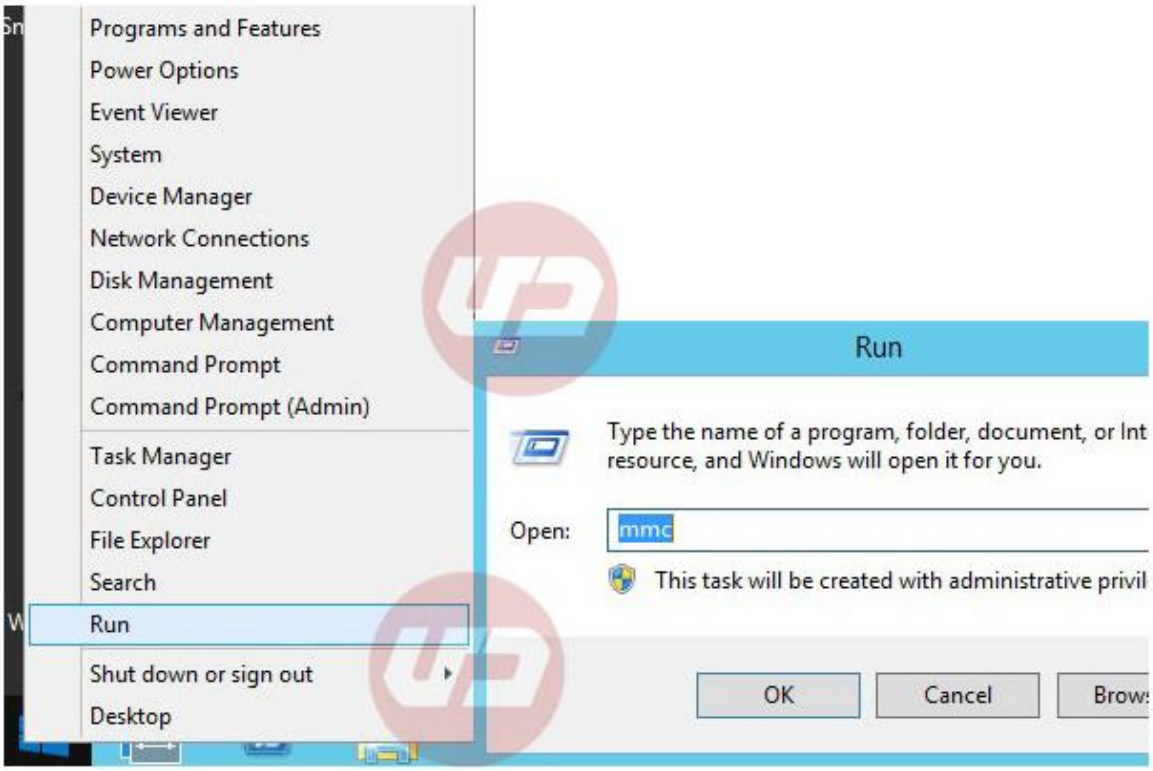
PKCS-10 bestand genereren en opslaan.



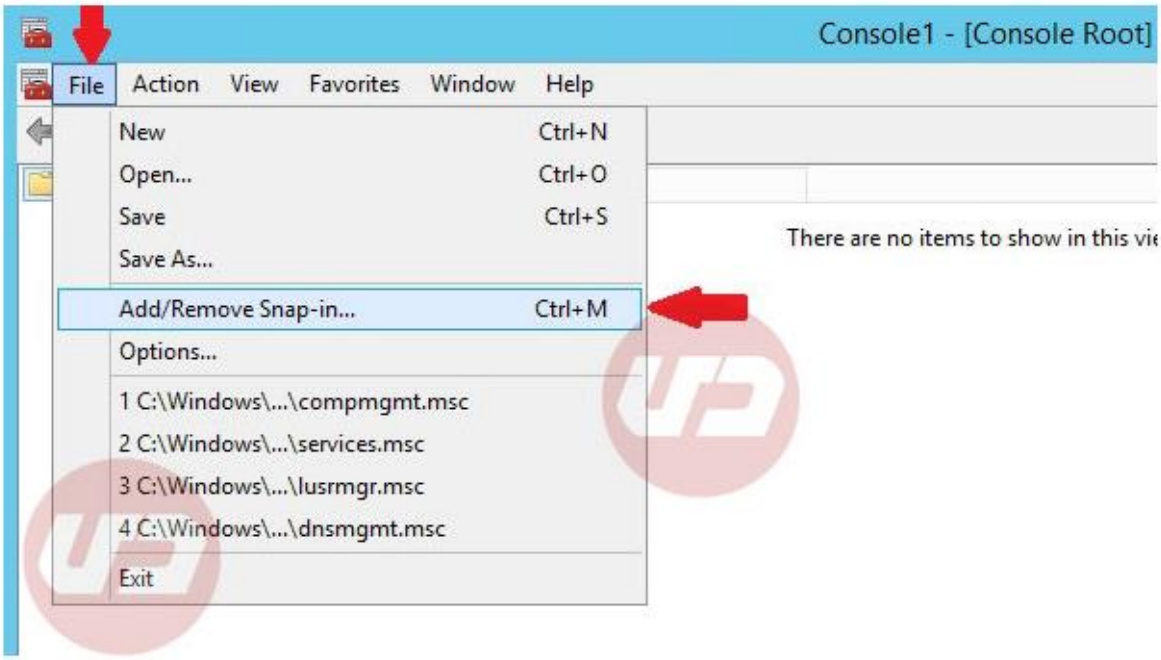
2. Installeren servercertificaat via MMC

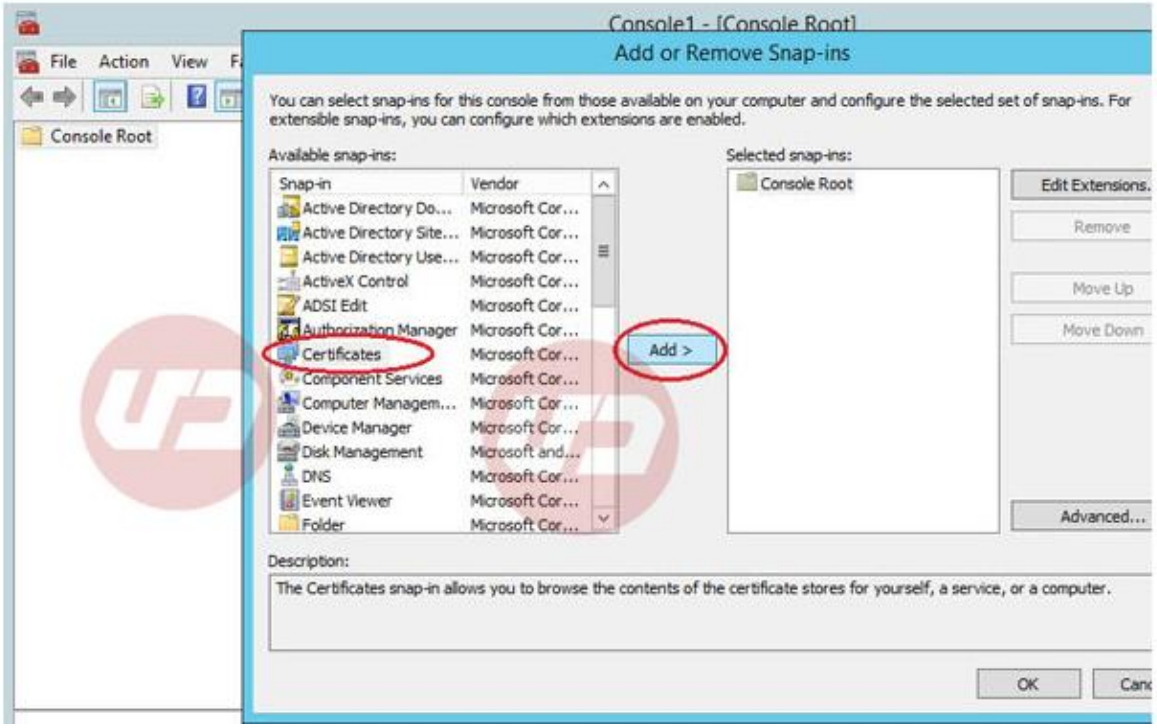
MMC Prepareren

Start MMC

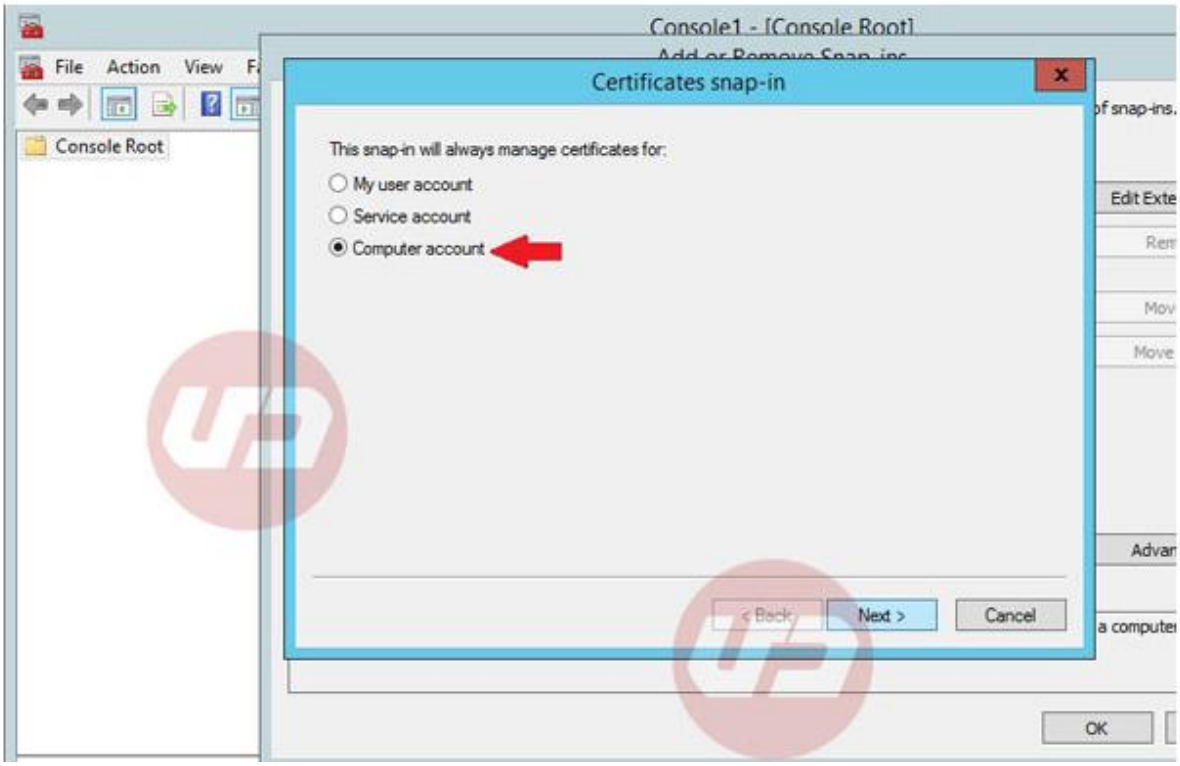


Voeg Certificaatmodule toe

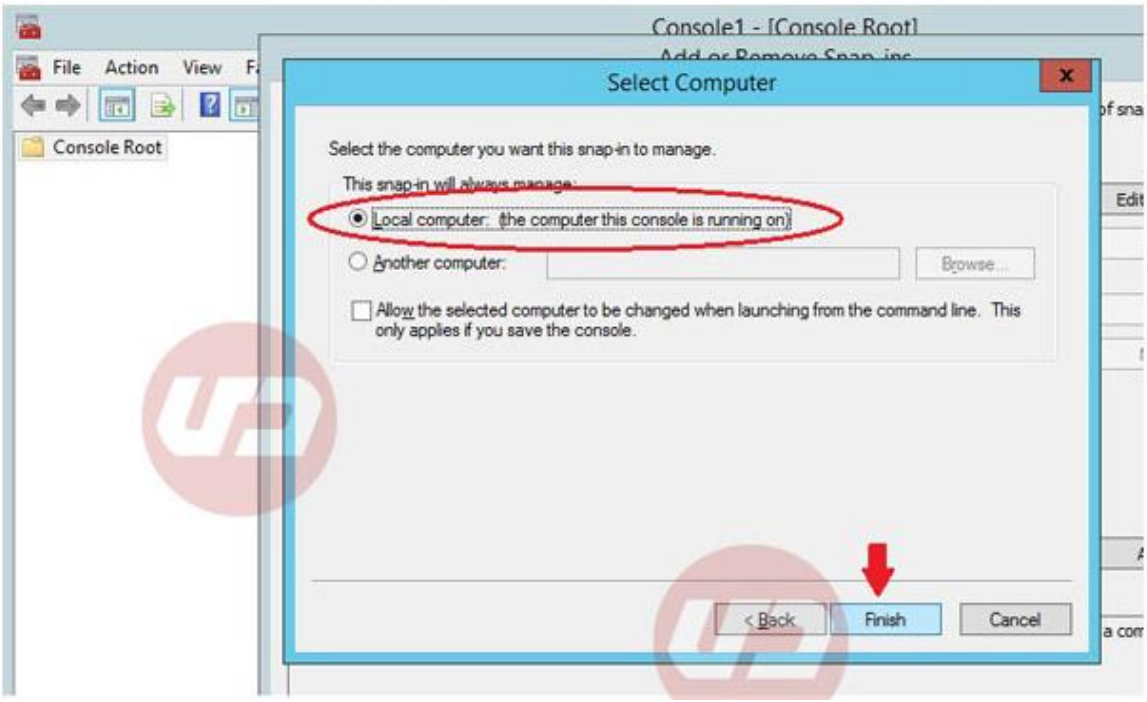

Console1 - [Console Root]
File
Action
View
Favorites
Window
Help
New Ctrl+N
Open... Ctrl+O
Save Ctrl+S
Save As...
Add/Remove Snap-in... Ctrl+M
Options...
1 C:\Windows\...\compmgmt.msc
2 C:\Windows\...\services.msc
3 C:\Windows\...\lusrmgr.msc
4 C:\Windows\...\dnsmgmt.msc
Exit
There are no items to show in this vie

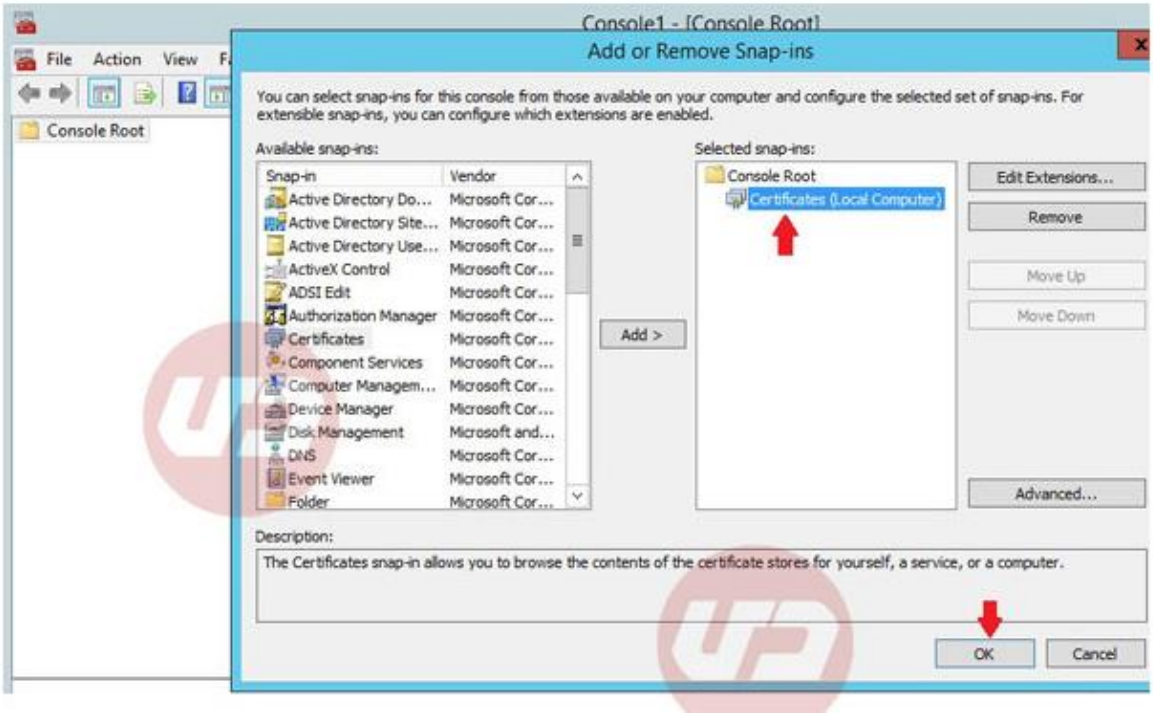

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Certificates Microsoft Cor...
Component Services Microsoft Cor...
Computer Managem... Microsoft Cor...
Device Manager Microsoft Cor...
Disk Management Microsoft and...
DNS Microsoft Cor...
Event Viewer Microsoft Cor...
Folder Microsoft Cor...
Add >
Selected snap-ins:
Console Root
Edit Extensions...
Remove
Move Up
Move Down
Advanced...
Description:
The Certificates snap-in allows you to browse the contents of the certificate stores for yourself, a service, or a computer.
OK

Kies ComputerAccount



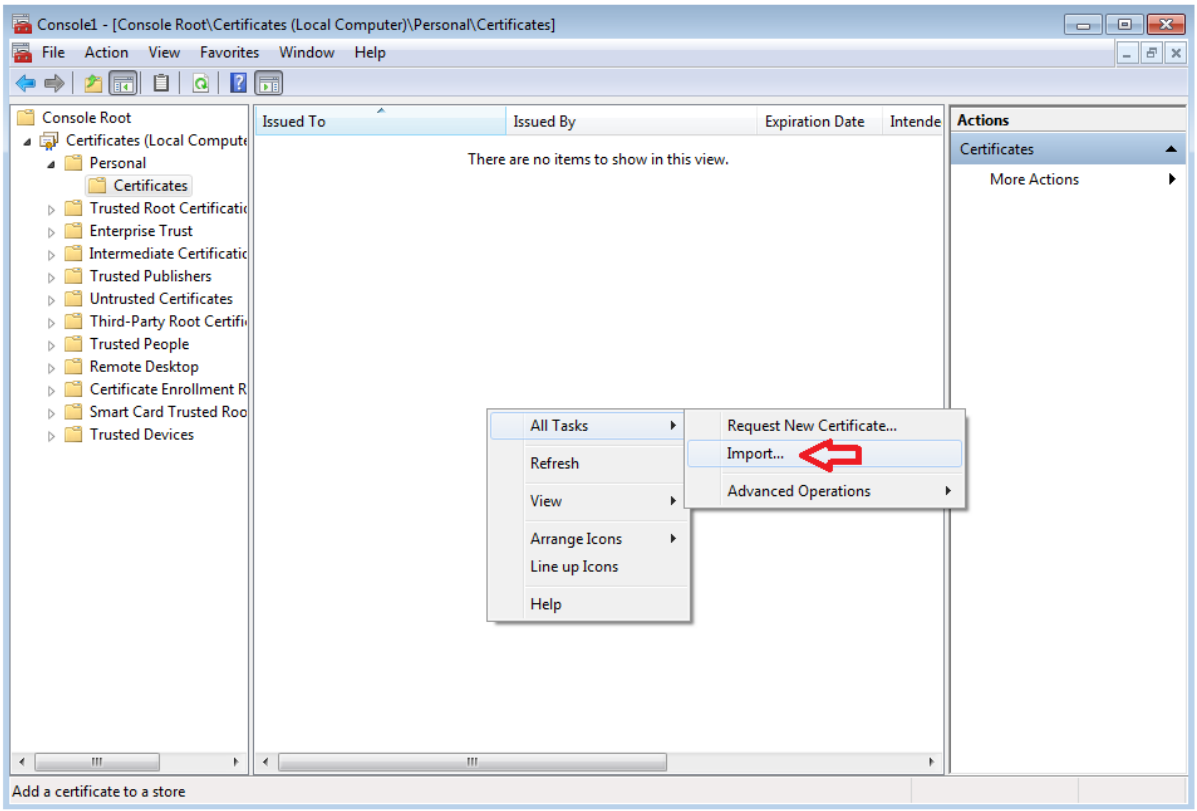
NB: Is deze optie er niet, start MMC dan als Administrator



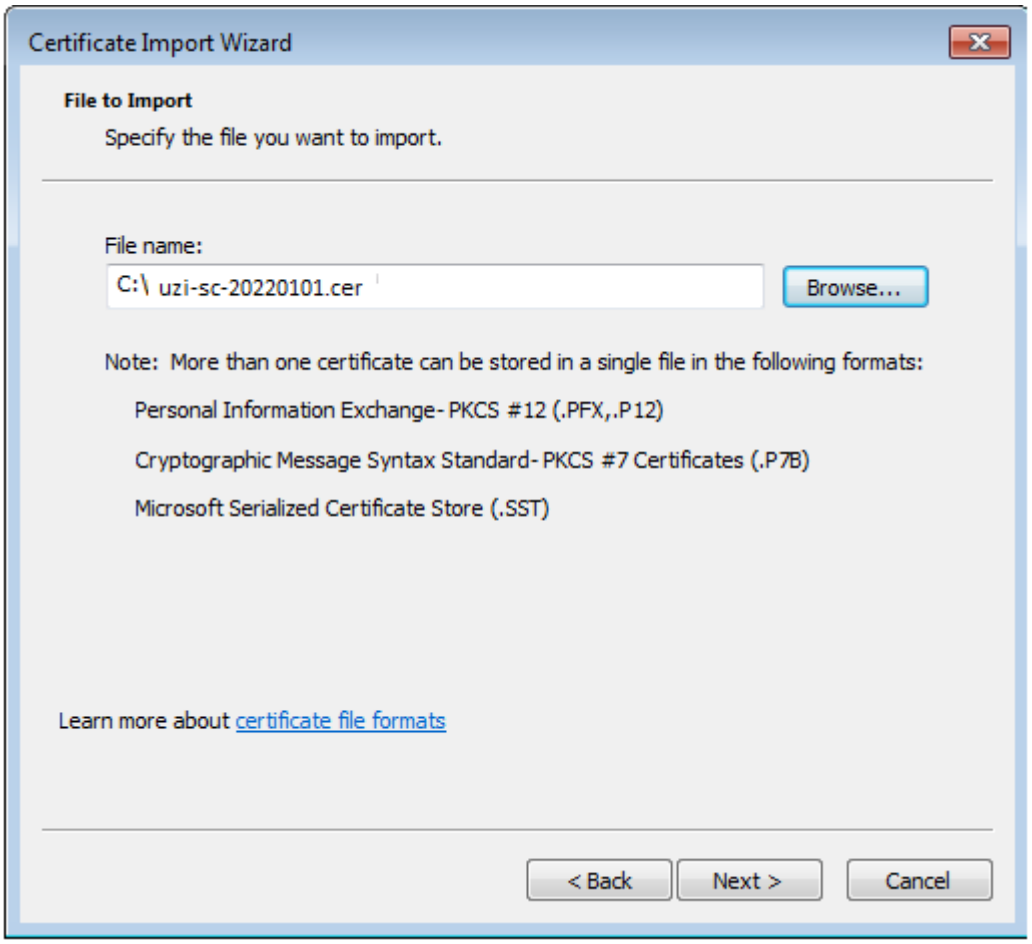

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Active Directory Do... Microsoft Cor...
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Active Directory Use... Microsoft Cor...
ActiveX Control Microsoft Cor...
ADSI Edit Microsoft Cor...
Authorization Manager Microsoft Cor...
Certificates Microsoft Cor...
Component Services Microsoft Cor...
Computer Managem... Microsoft Cor...
Device Manager Microsoft Cor...
Disk Management Microsoft and...
DNS Microsoft Cor...
Event Viewer Microsoft Cor...
Folder Microsoft Cor...
Add >
Selected snap-ins:
Console Root
Certificates (Local Computer)
Edit Extensions...
Remove
Move Up
Move Down
Advanced...
Description:
The Certificates snap-in allows you to browse the contents of the certificate stores for yourself, a service, or a computer.
OK
Cancel

De installatie

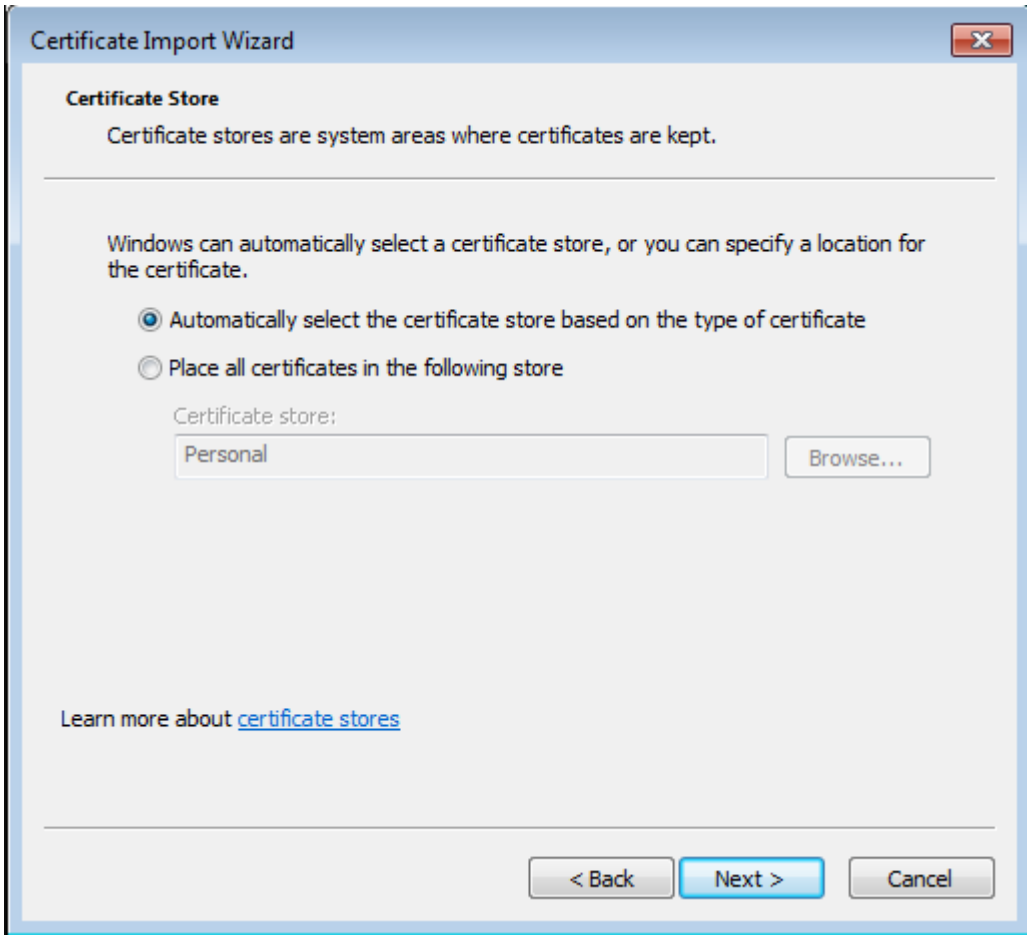
Klik met de rechtermuisknop op Certificates en Kies All Tasks/Import



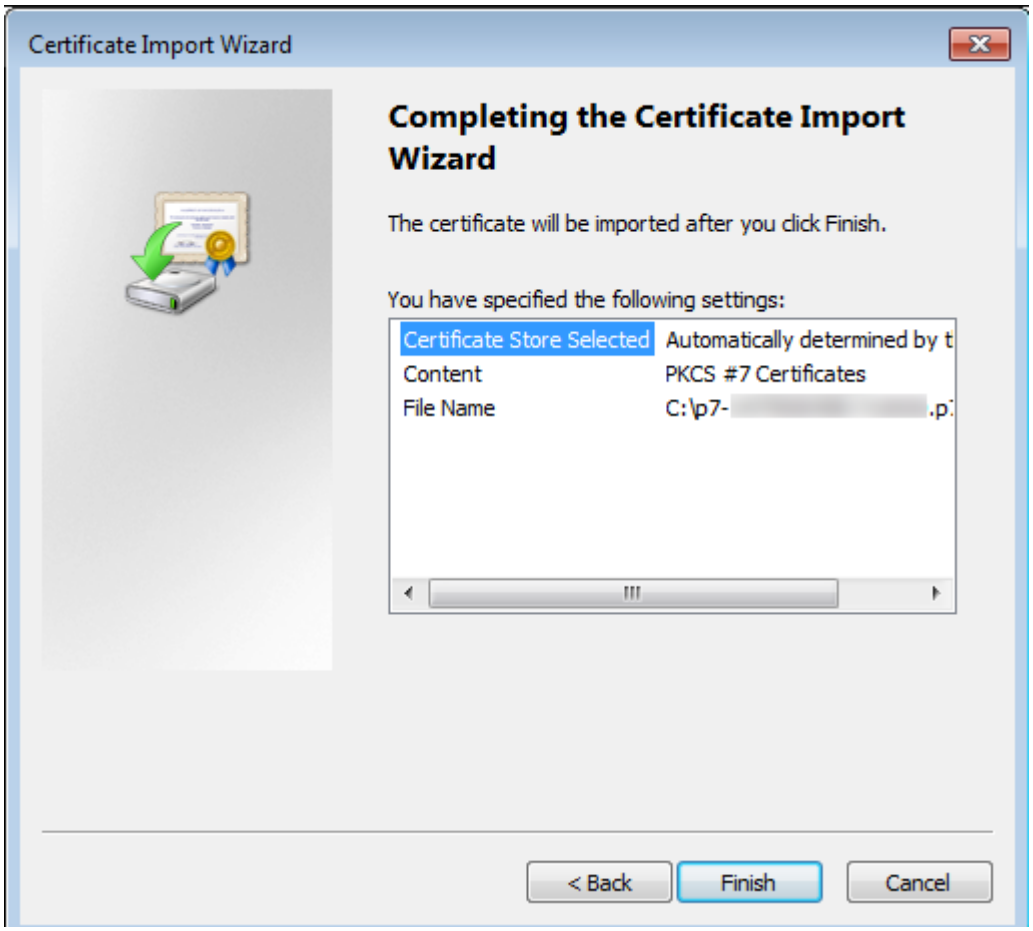
Zoek het gewenste bestand en klik Next



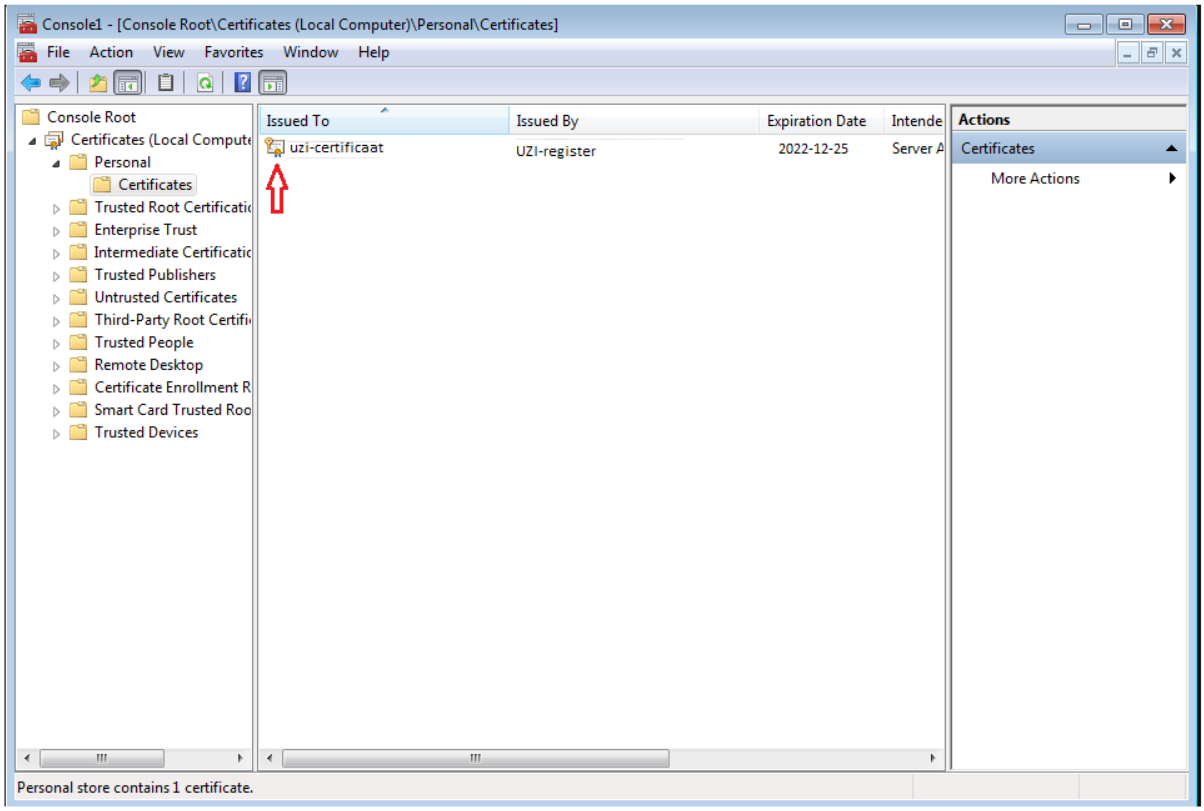
Klik Next


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 the certificate.
Automatically select the certificate store based on the type of certificate
Place all certificates in the following store
Certificate store:
Personal
Browse...
Learn more about certificate stores
< Back
Next >
Cancel

Klik Finish


Certificate Import Wizard
Completing the Certificate Import Wizard
The certificate will be imported after you click Finish.
You have specified the following settings:
Certificate Store Selected
Automatically determined by t
Content
PKCS #7 Certificates
File Name
C:\p7-
< Back
Finish
Cancel

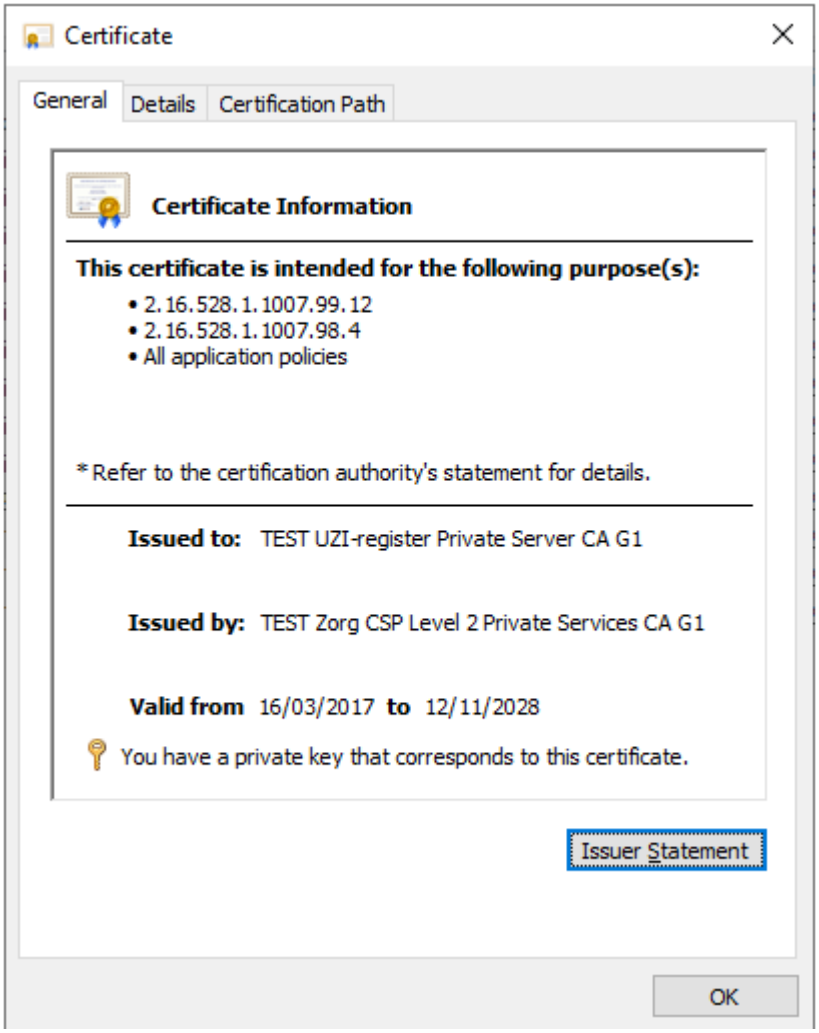
Na installatie zal het certificaat zichtbaar met een sleutel, ten teken dat het correspondeert met de eerder gemaakt private key (PKCS)

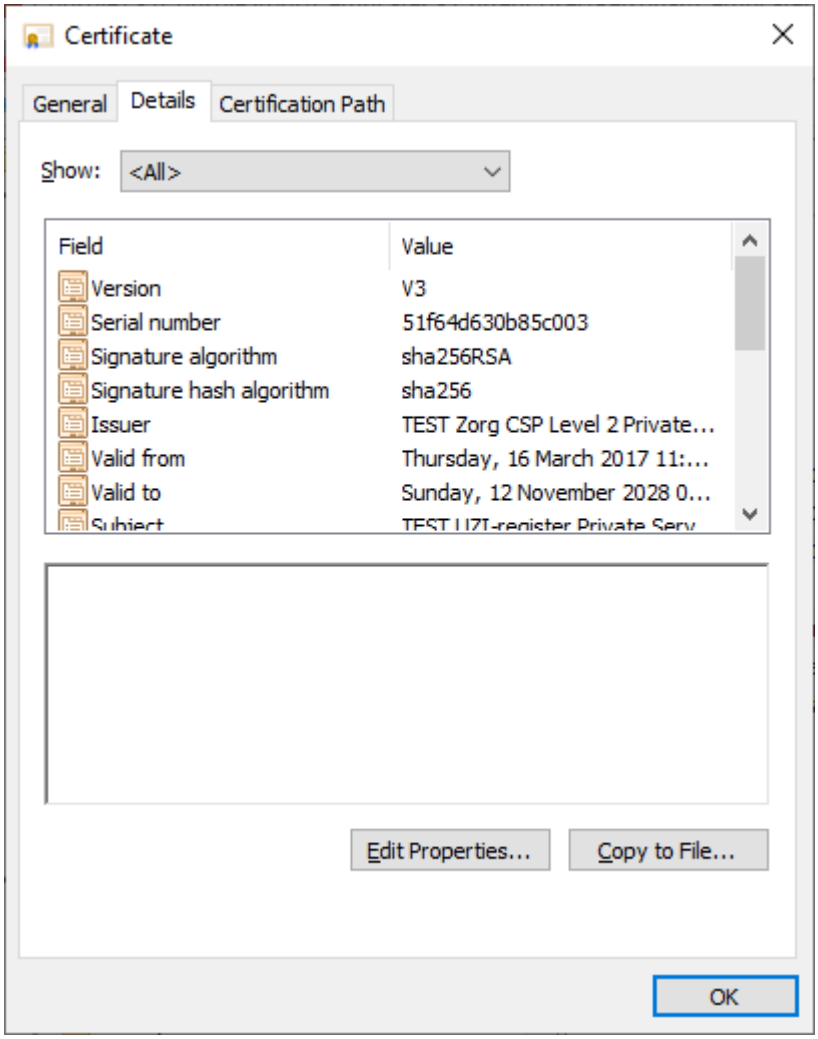


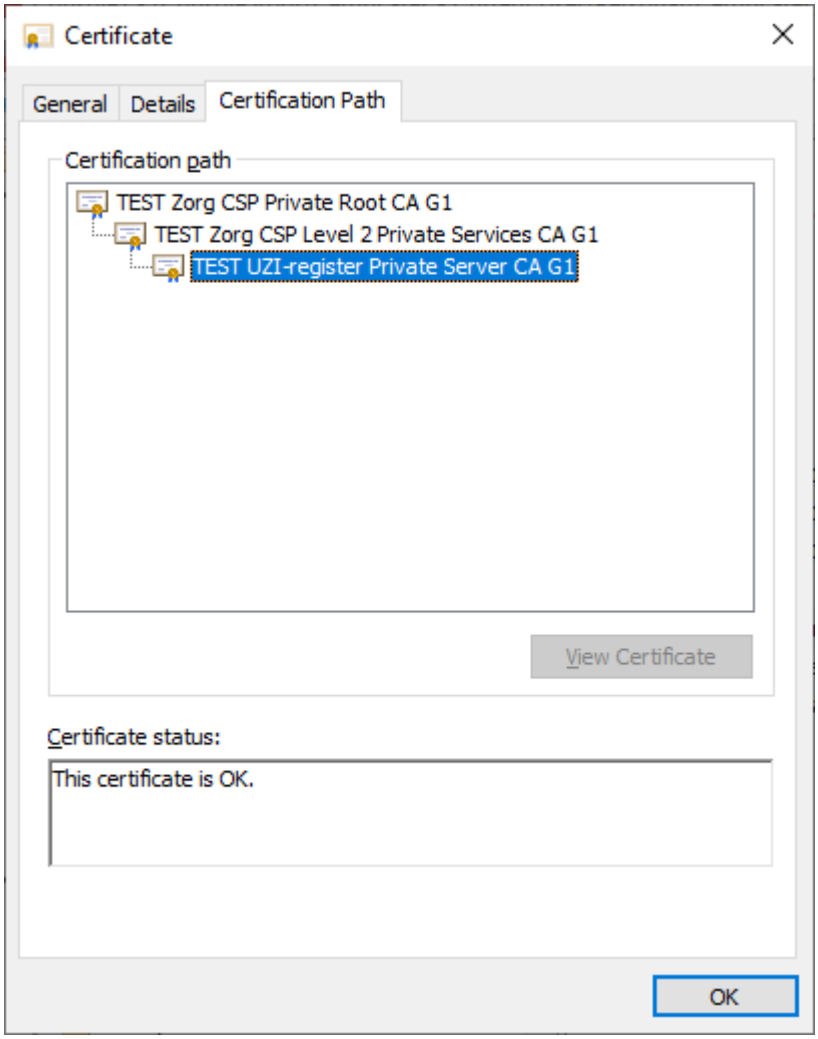
Mocht het certificaat niet werken dan ontbreken mogelijk de keten-certificaten.
Deze staan op: https://www.zorgcsp.nl/ca-certificaten

3. Controles

Dubbelklik op het certificaat, onderstaande tabbladen zult u te zien moeten krijgen.




Certificate
General
Details
Certification Path
Show:
<All>
Field
Value
Version
V3
Serial number
51f64d630b85c003
Signature algorithm
sha256RSA
Signature hash algorithm
sha256
Issuer
TEST Zorg CSP Level 2 Private...
Valid from
Thursday, 16 March 2017 11:...
Valid to
Sunday, 12 November 2028 0...
Edit Properties...
Copy to File...
OK

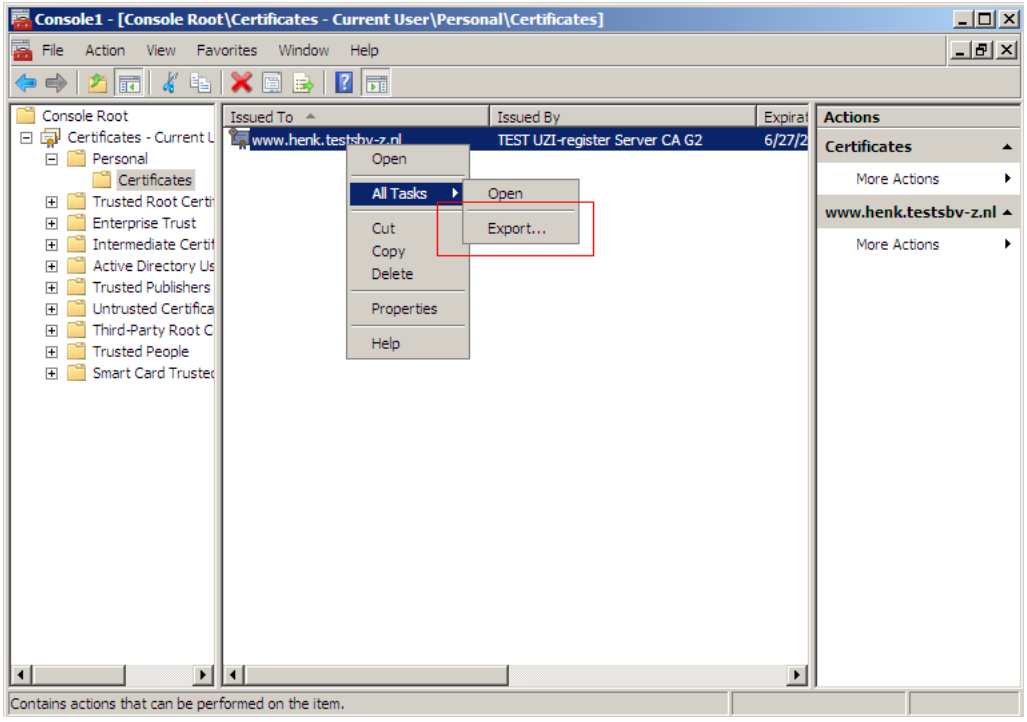

Certificate
General
Details
Certification Path
Certification path
TEST Zorg CSP Private Root CA G1
TEST Zorg CSP Level 2 Private Services CA G1
TEST UZI-register Private Server CA G1
View Certificate
Certificate status:
This certificate is OK.
OK

4. Het exporteren van het servercertificaat naar PFX

Het servercertificaat is nu geïnstalleerd. Dit servercertificaat bevat zowel de publieke als de private sleutel. U kunt dit exporteren naar PFX. In dit hoofdstuk staat beschreven hoe dit moet. Voorwaarde hierbij is wel dat het servercertificaat correct is geïnstalleerd.

Start de MMC op en ga naar de map in Certificates (Local Computer) -> Personal -> Certificates.

Klik met de rechtermuisknop op het betreffende certificaat en kies voor All Tasks -> Export…



De Export Wizard verschijnt. Klik op “Next”.

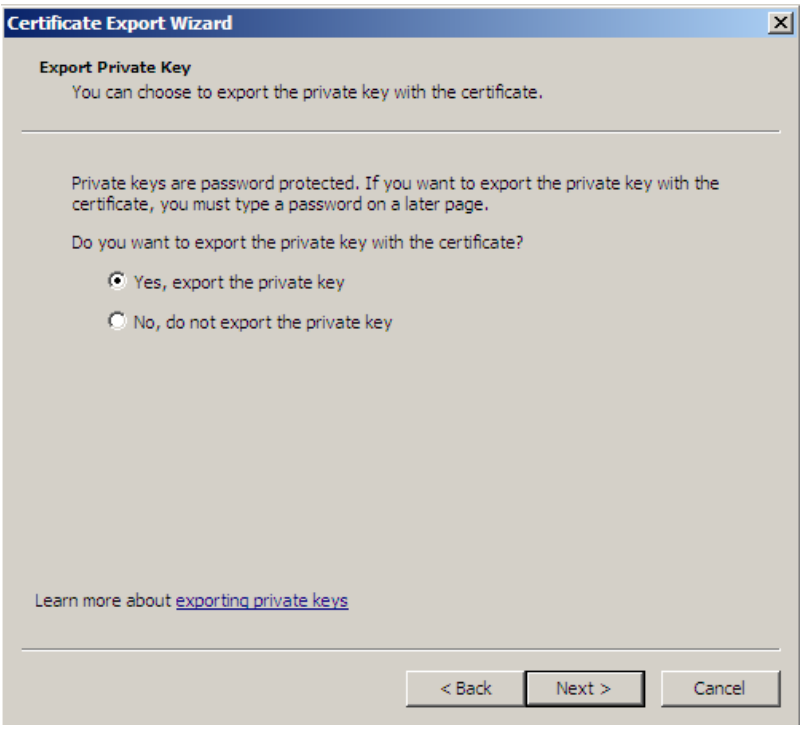


Selecteer “Yes, export the private key”. Dit betekent dat de private sleutel wordt meegenomen in het export bestand.

Als u tijdens het aanmaken van het PKCS#10 bestand het vinkje 'Make Private key exportable' vergeten bent, dan kunt u het servercertificaat niet exporteren. Dit is helaas niet met terugwerkende kracht aan te passen

De enige oplossing voor u om het huidige certificaat in te trekken en een nieuwe certificaat met een nieuwe PKCS#10 bestand (met vinkje private key exportable) aan te vragen. Dit brengt kosten met zich mee."

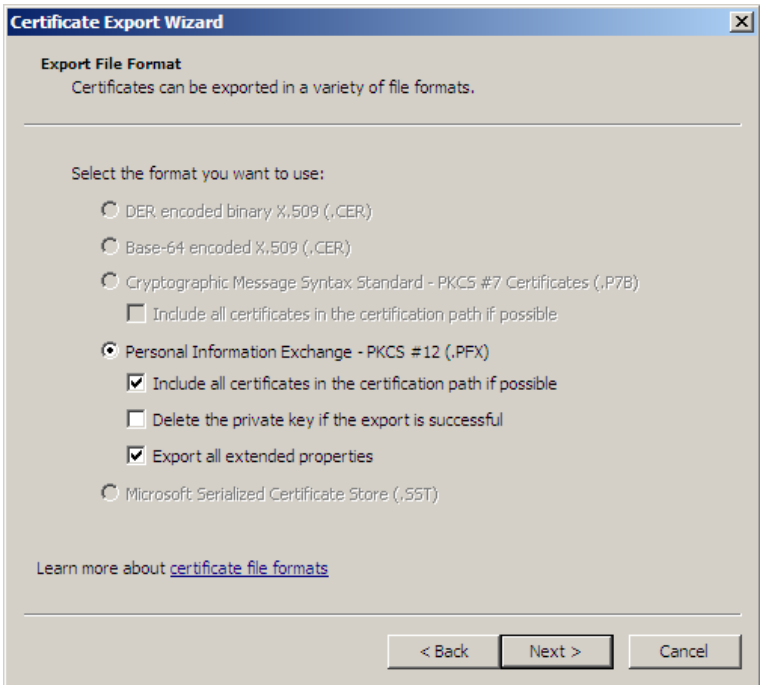
LET OP! Zonder de private sleutel kan het servercertificaat niet gebruikt worden. Klik daarna op “Next”.


Certificate Export Wizard
Export Private Key
You can choose to export the private key with the certificate.
Private keys are password protected. If you want to export the private key with the certificate, you must type a password on a later page.
Do you want to export the private key with the certificate?
Yes, export the private key
No, do not export the private key
Learn more about exporting private keys
< Back
Next >
Cancel

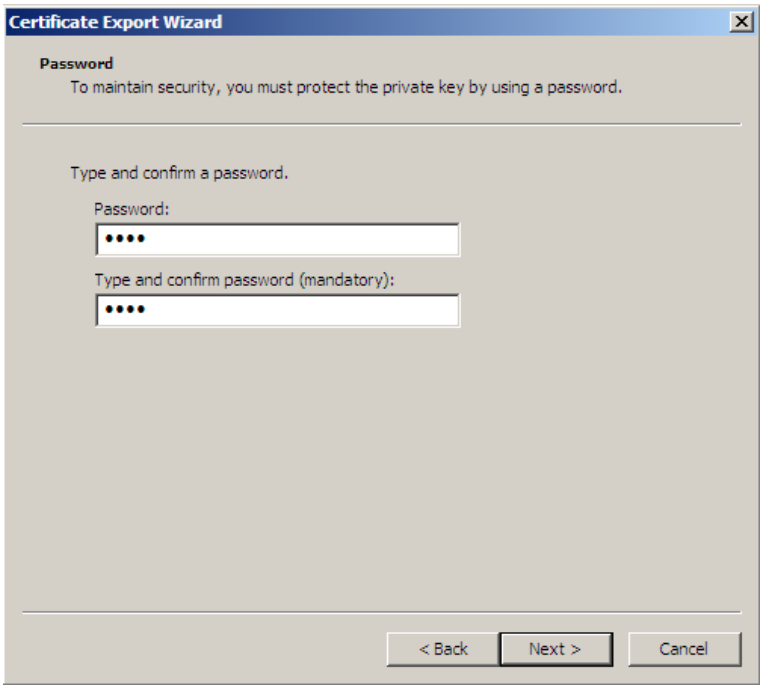
Selecteer de hieronder getoonde opties.

LET OP! Haal het vinkje weg dat staat bij “Delete the private key if the export is successful”. De private key moet u straks nogmaals exporteren voor archivering op de server.

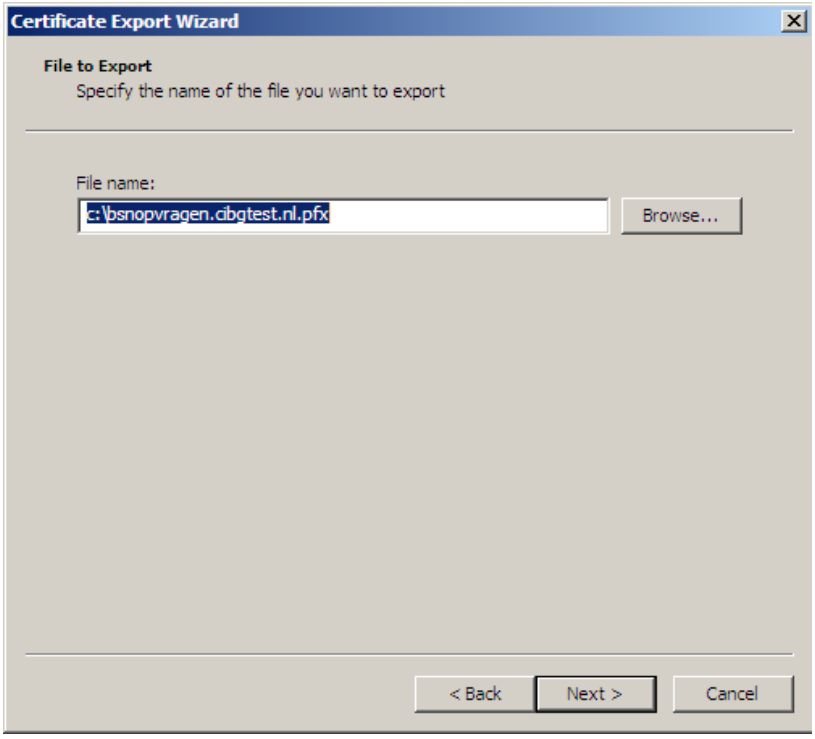
Klik vervolgens op “Next”.



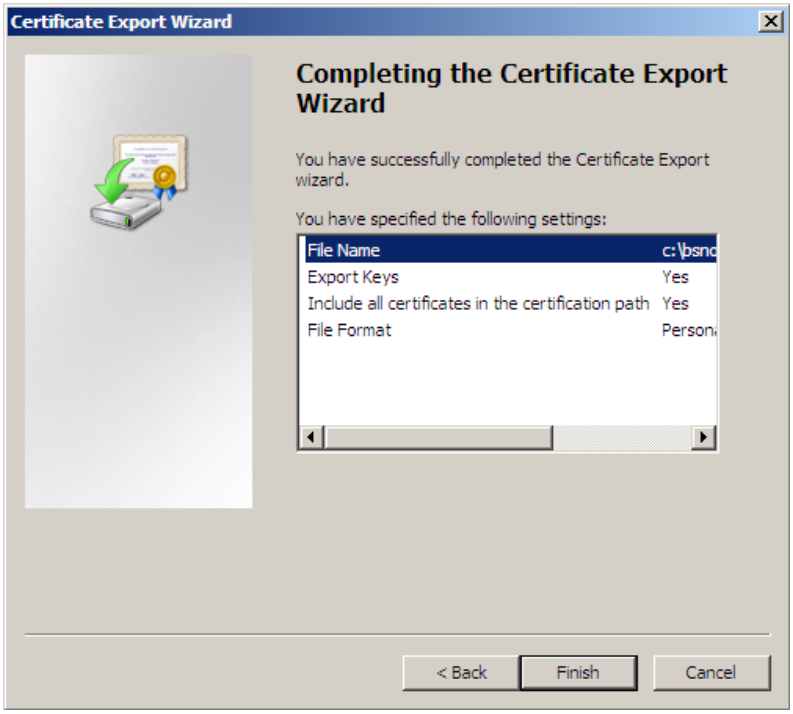
Voer hier het wachtwoord in om het servercertificaat te beveiligen. Dit wachtwoord moet u bij het importen van het servercertificaat invoeren.


Certificate Export Wizard
Password
To maintain security, you must protect the private key by using a password.
Type and confirm a password.
Password:
••••
Type and confirm password (mandatory):
••••
< Back
Next >
Cancel

Kies bij 'Browse' de locatie waar het PFX bestand opgeslagen moet worden.
Zorg dat in de bestandsnaam de volledige FQDN staat. Klik daarna op “Next”.



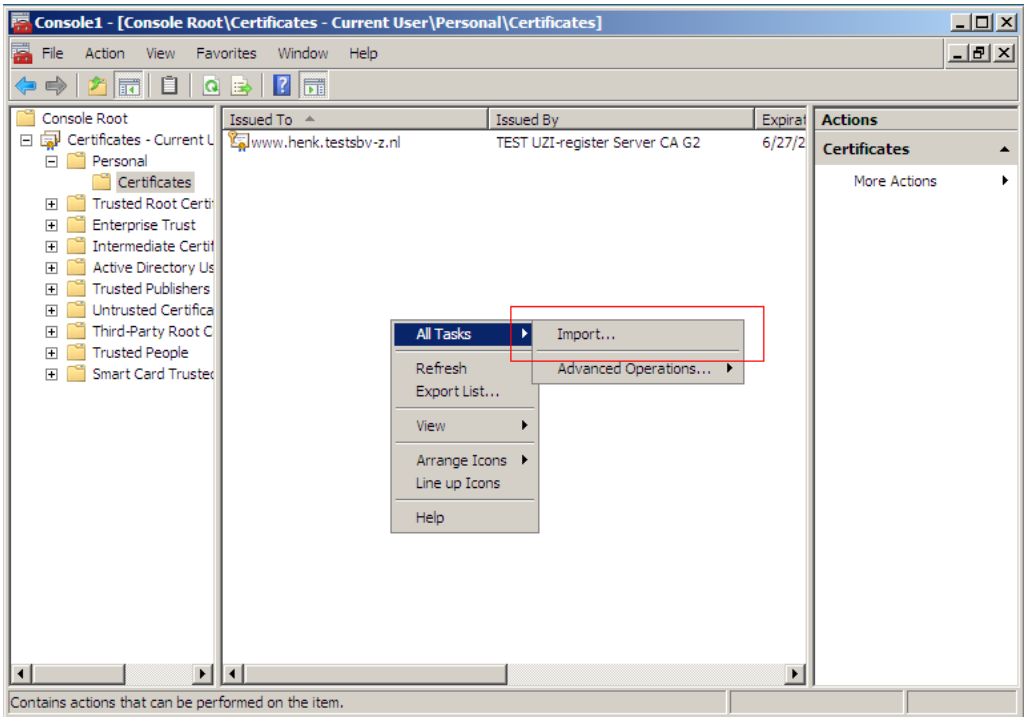
Controleer of alle settings correct zijn gekozen en klik op “Finish”.



Vervolgens krijgt u een melding betreft het succesvol exporteren en klikt u op “OK”.

1 Het installeren van het servercertificaat in PFX formaat

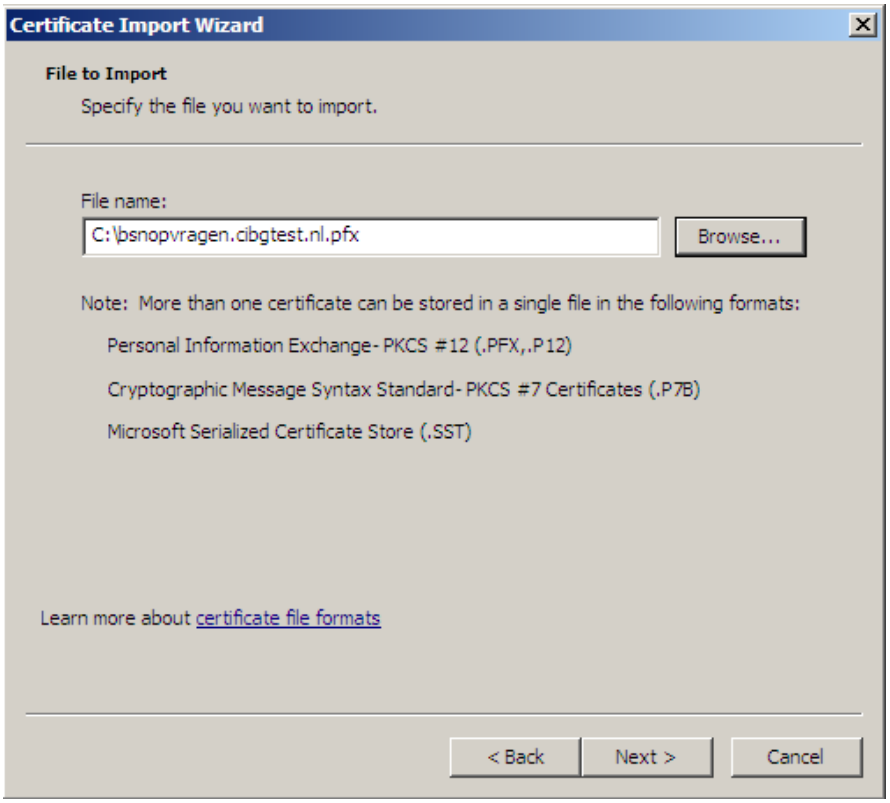
Ga in de “MMC” naar “Certificates (Local Computer) -> Personal -> Certificates” en klik vervolgens met de rechtermuisknop op Certificates, selecteer “All Tasks” en vervolgens “Import…”.



De Certificate Import Wizard wordt gestart. Klik op “Next”.

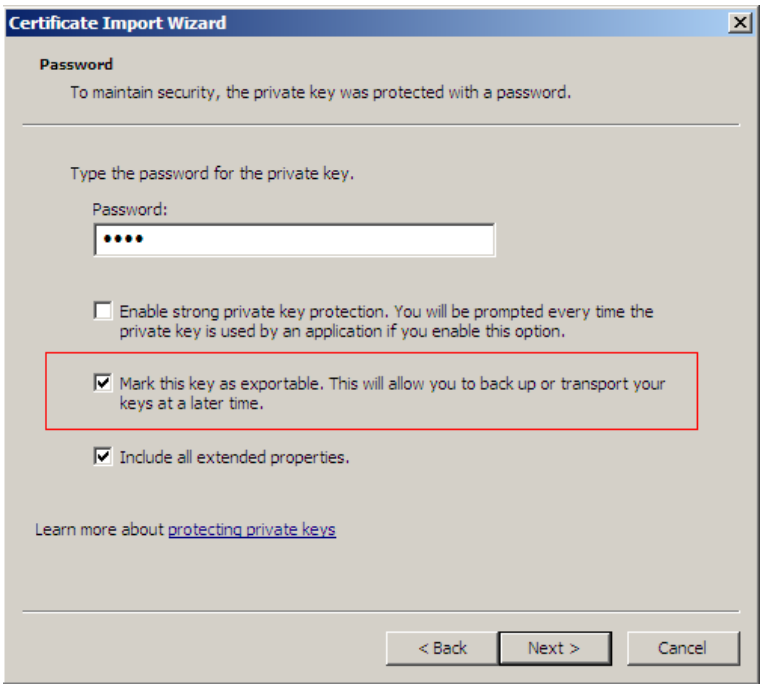


Selecteer bij “Browse” het PFX bestand en klik op “Next”.

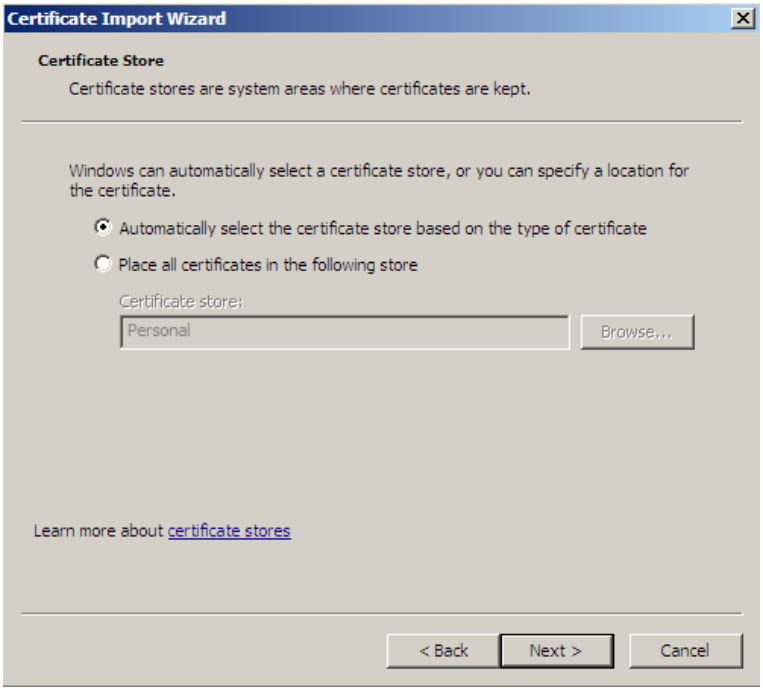

Certificate Import Wizard
File to Import
Specify the file you want to import.
File name:
C:\bsnopvragen.cibgtest.nl.pfx
Browse...
Note: More than one certificate can be stored in a single file in the following formats:
Personal Information Exchange- PKCS #12 (.PFX,.P12)
Cryptographic Message Syntax Standard- PKCS #7 Certificates (.P7B)
Microsoft Serialized Certificate Store (.SST)
Learn more about certificate file formats
< Back
Next >
Cancel

Voer het wachtwoord in wat u in hoofdstuk 6 heeft opgegeven.

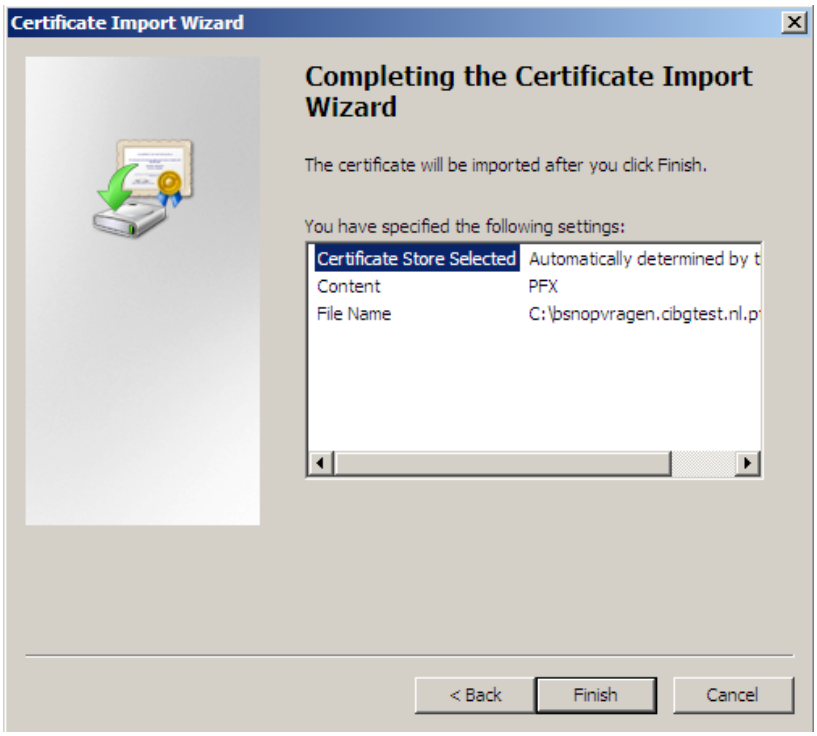
LET OP! Indien er geen vinkje bij “Mark this key as exportable. This will allow you to back up or transport your keys at a later time.” staat kan het geïnstalleerde certificaat niet meer worden geëxporteerd naar een nieuw PFX bestand.



Kies voor: “Automatically select the certificate store based on the type of certificate.” Hiermee worden zowel de bovenliggende certificaatniveaus (bijv. Root CA) en het servercertificaat op de juiste plaats opgeslagen.


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 the certificate.
Automatically select the certificate store based on the type of certificate
Place all certificates in the following store
Certificate store:
Personal
Browse...
Learn more about certificate stores
< Back
Next >
Cancel

Controleer of de juiste instellingen zijn gekozen en klik daarna op “Finish”.



Het importeren is voltooid op de betreffende server.

