How to Create Your Own Certificate to Sign AutoCAD OEM

For building AutoCAD OEM product, it is required to sign OEM bits with a digital certificate.

We highly recommend to purchase a commerical digital certificate for signing OEM buillt MSI.

However for testing on development machine, you can create your own Digital Certificate.

Launch Visual Studio 2022 Developer Command Prompt with adminstrator privileges.

1. Check if certutils.exe and signtool.exe are available on your machine.

```
where certutil
where signtool
```

```
mkdir %userprofile%\Documents\DigiCert
cd %userprofile%\Documents\DigiCert
makecert -r -sv madadn.pvk -n "CN=ADNDevtech" madadn.cer -b 05/22/2022 -e 05/21/2024
pvk2pfx -pvk madadn.pvk -pi mypassword -spc madadn.cer -pfx madadn.pfx -po mypassword
certutil.exe -p mypassword -importpfx madadn.pfx
signtool sign /f madadn.pfx /p mypassword /fd sha1 /tr http://timestamp.digicert.com
Hello.exe
```

Note:

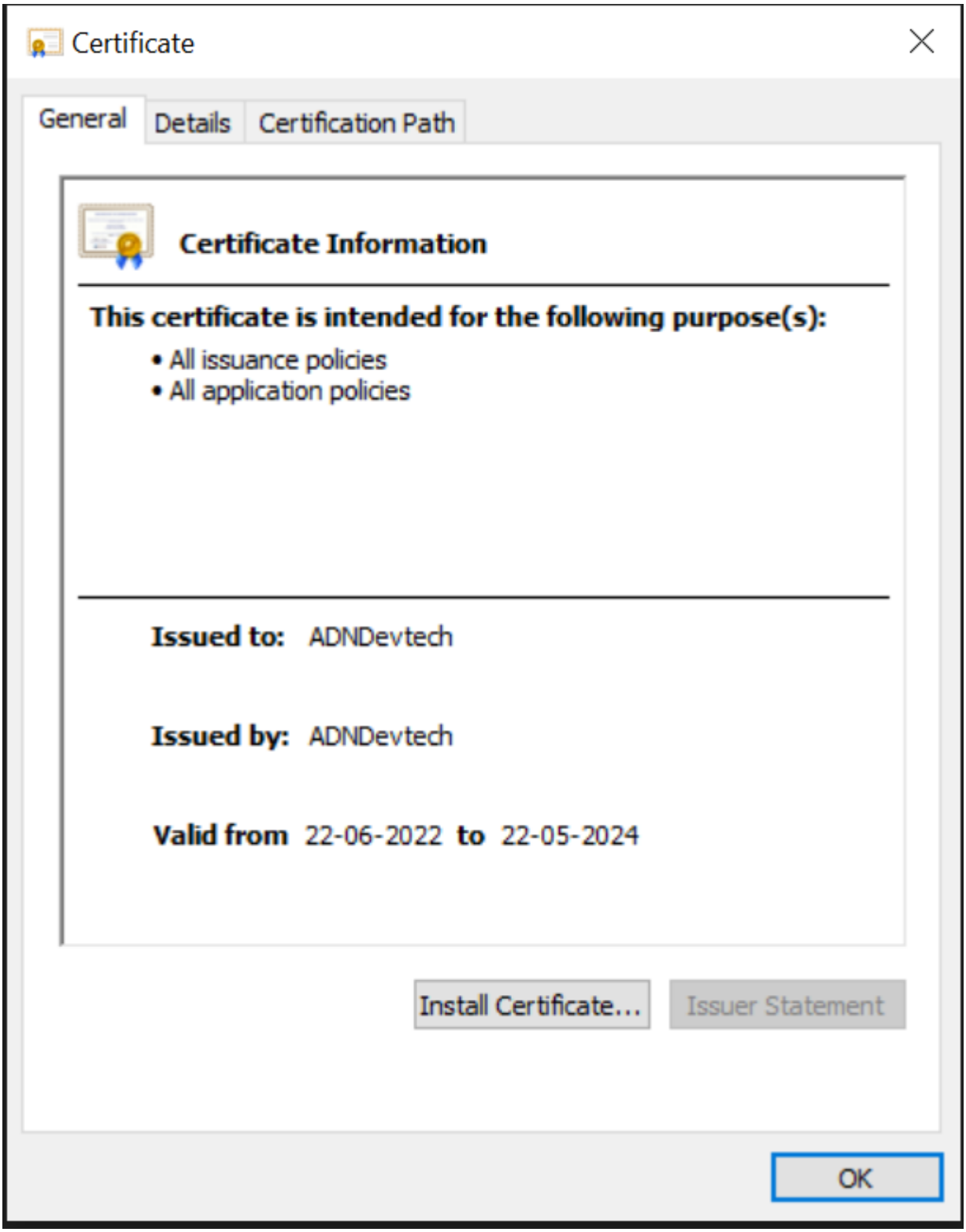
- ADNDevtech is command name that attributes to your product or organisation name.
- madadn.cer is the name of desired certificate to be created.
- `certutil.exe` learn more about certutil | Microsoft Learn
- `signtool.exe` learn more about SignTool.exe (Sign Tool) - .NET Framework | Microsoft Learn

After signing the MSI and other OEM custom modules with the digital signature created in the above steps, it is now important to enable the certificate as trusted on the target machine

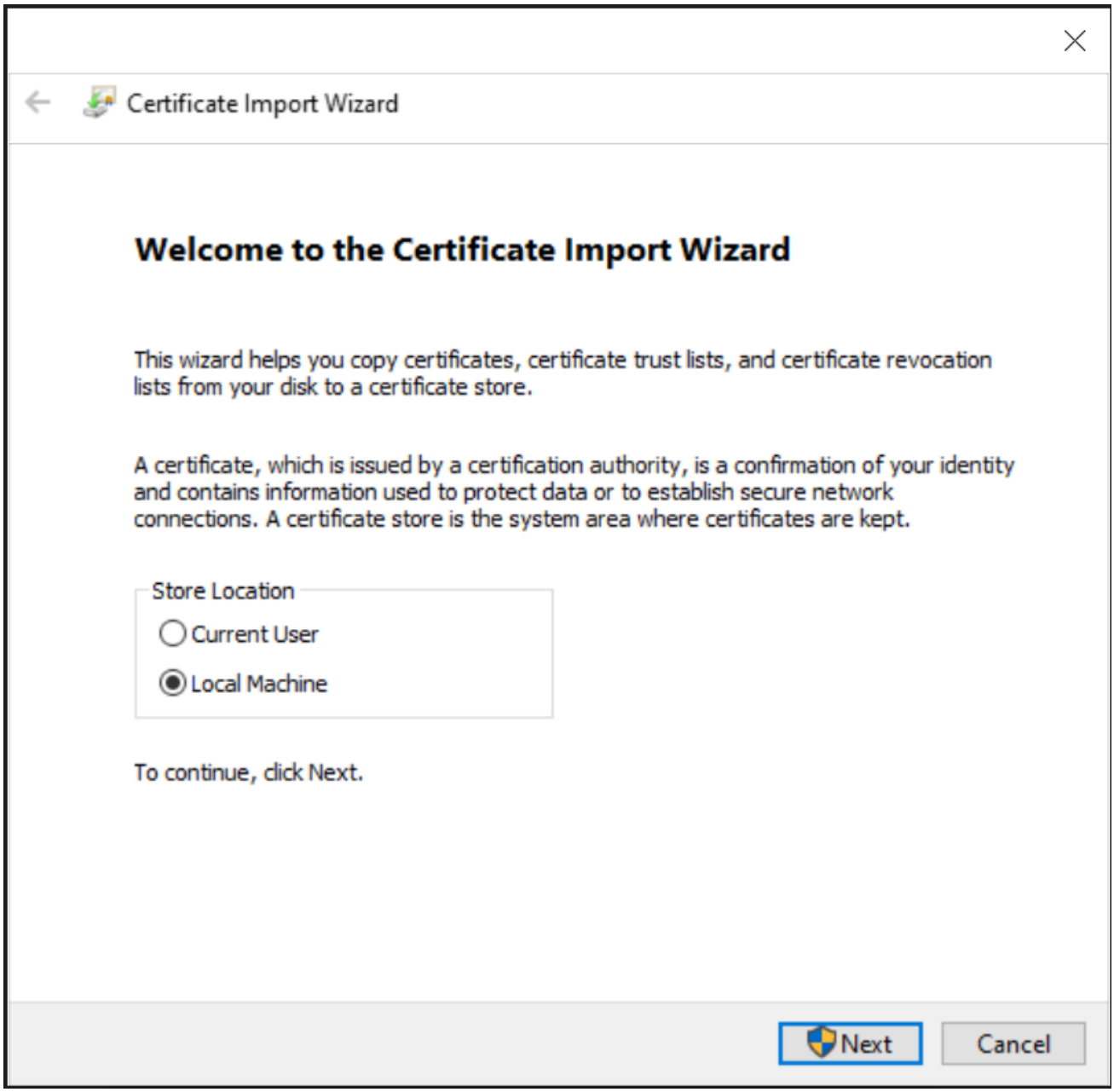
Target machine: A testing or end-user machine that will install your OEM product setup created from the Installer Wizard.

Install self-signed Certificate as Trusted on Target Machine

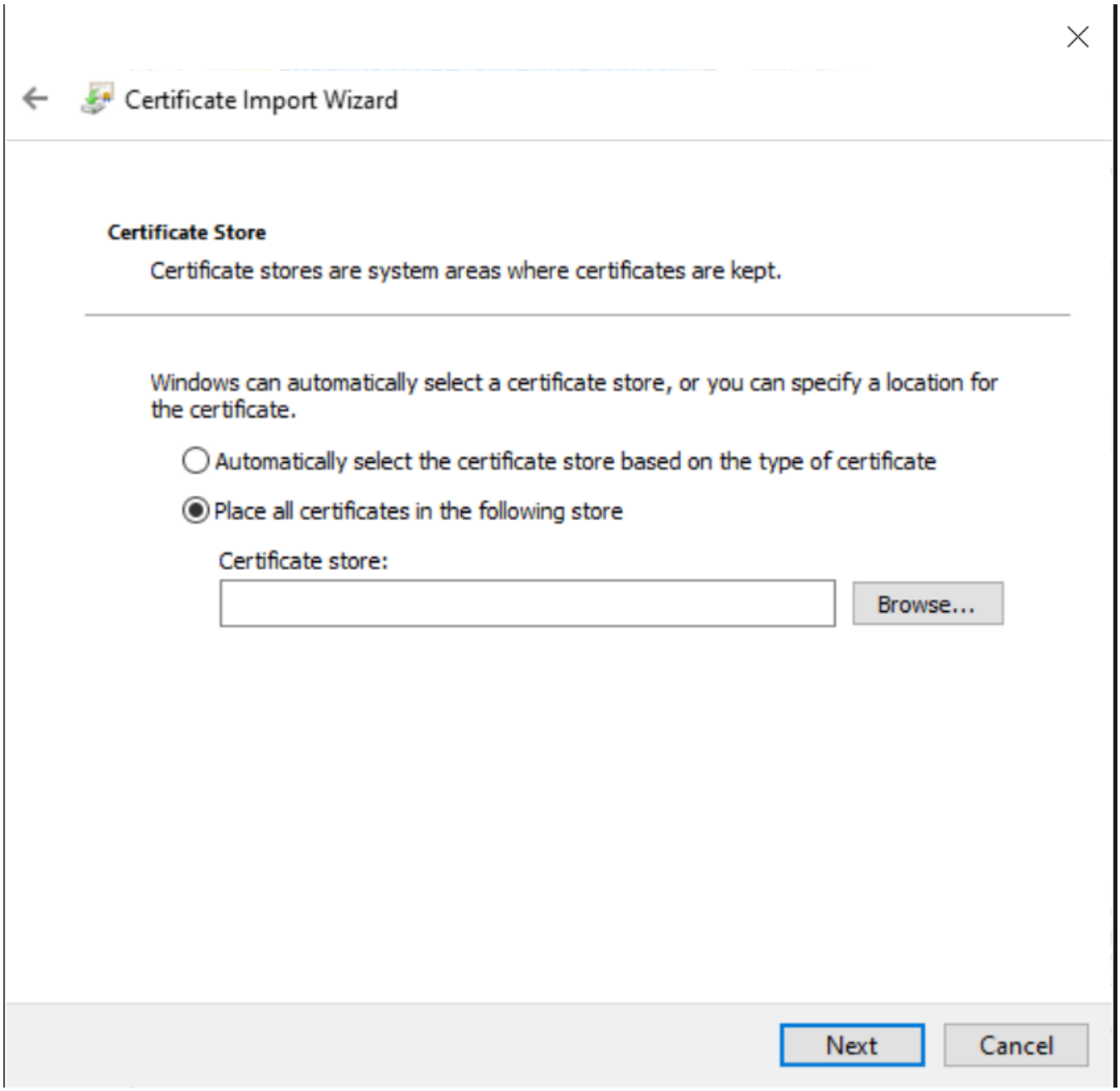
- Double Click on cer, ex: madadn.cer
- Click `Install` certificate.



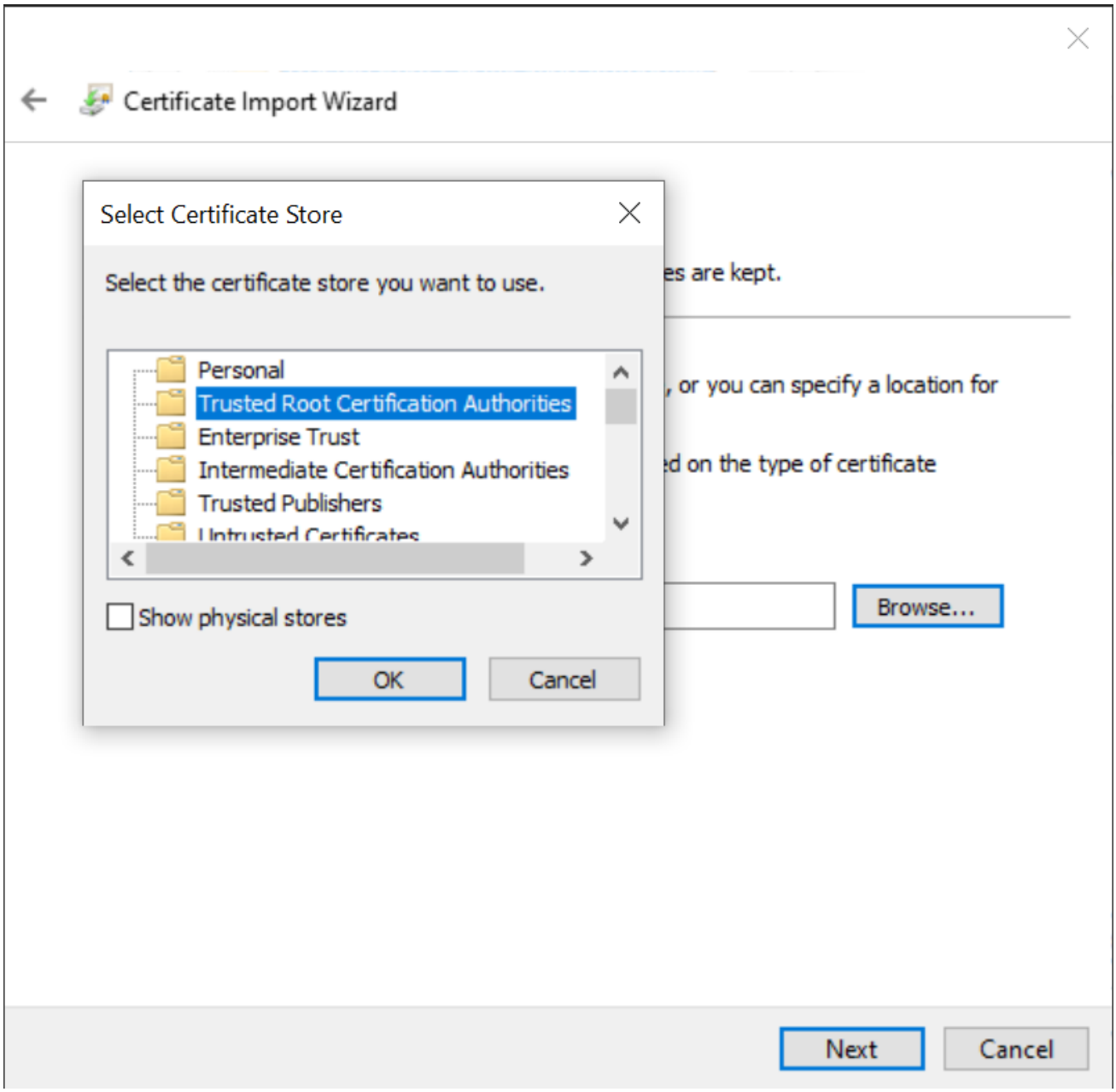
- Store Location, select LocalMachine and Next,



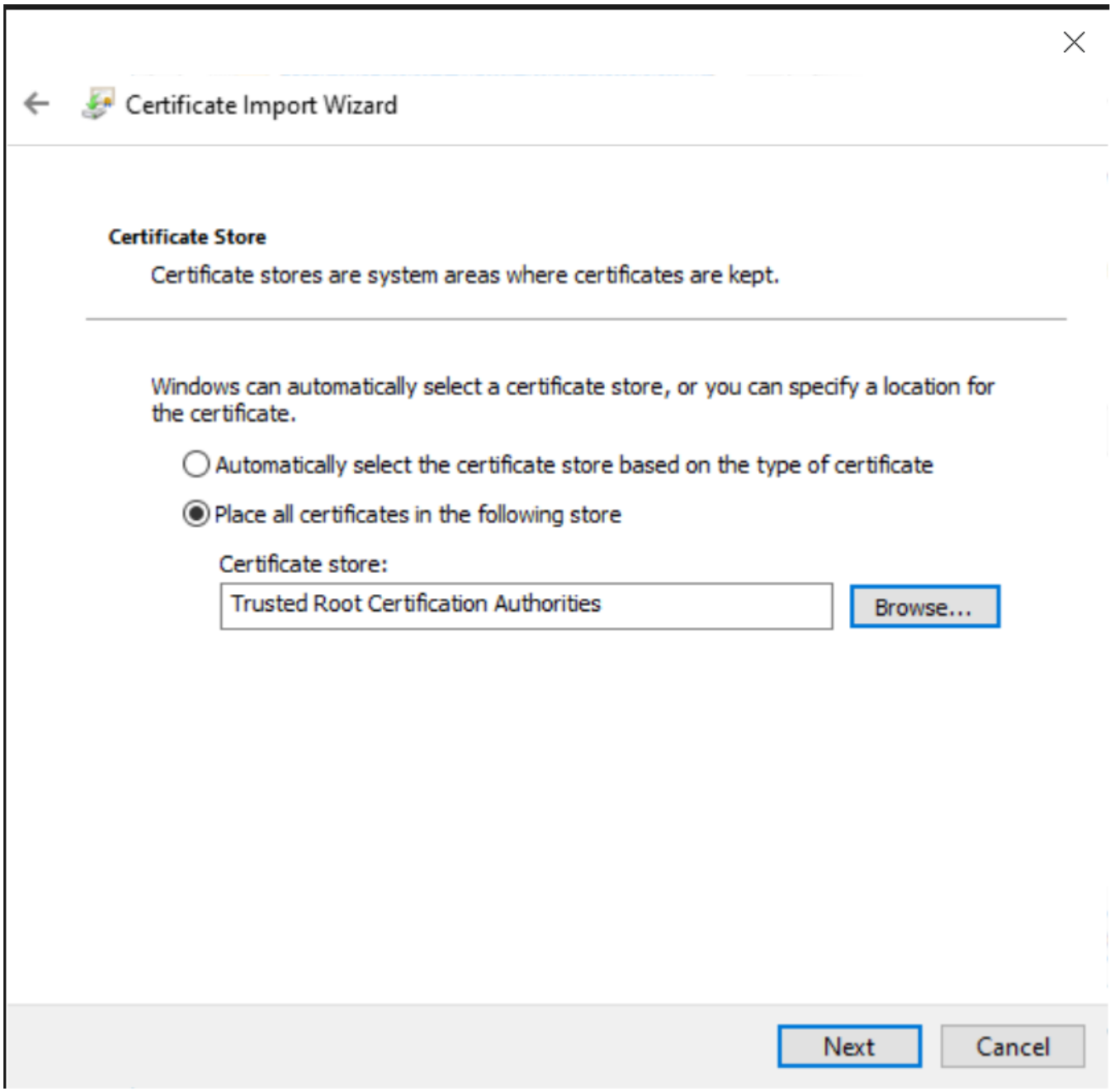
- Certificate Store select "Place all certificates in the following store" and click "Browse" button.



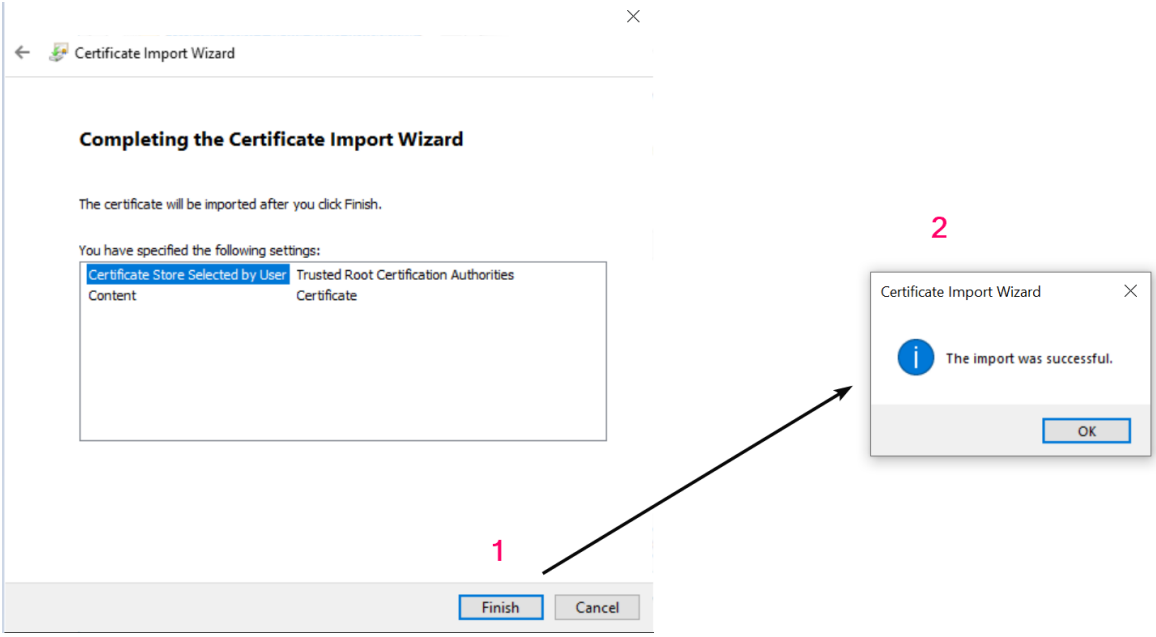
- Select Certificate Store select "Trusted Root Certification Authorities" then "OK"


Certificate Import Wizard
Select Certificate Store
Select the certificate store you want to use.
Personal
Trusted Root Certification Authorities
Enterprise Trust
Intermediate Certification Authorities
Trusted Publishers
Untrusted Certificates
Show physical stores
OK
Cancel
es are kept.
, or you can specify a location for
d on the type of certificate
Browse...
Next
Cancel

- 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:
Trusted Root Certification Authorities
Browse...
Next
Cancel

- 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 by User
Trusted Root Certification Authorities
Content
Certificate
1
Finish
Cancel
2
Certificate Import Wizard
The import was successful.
OK