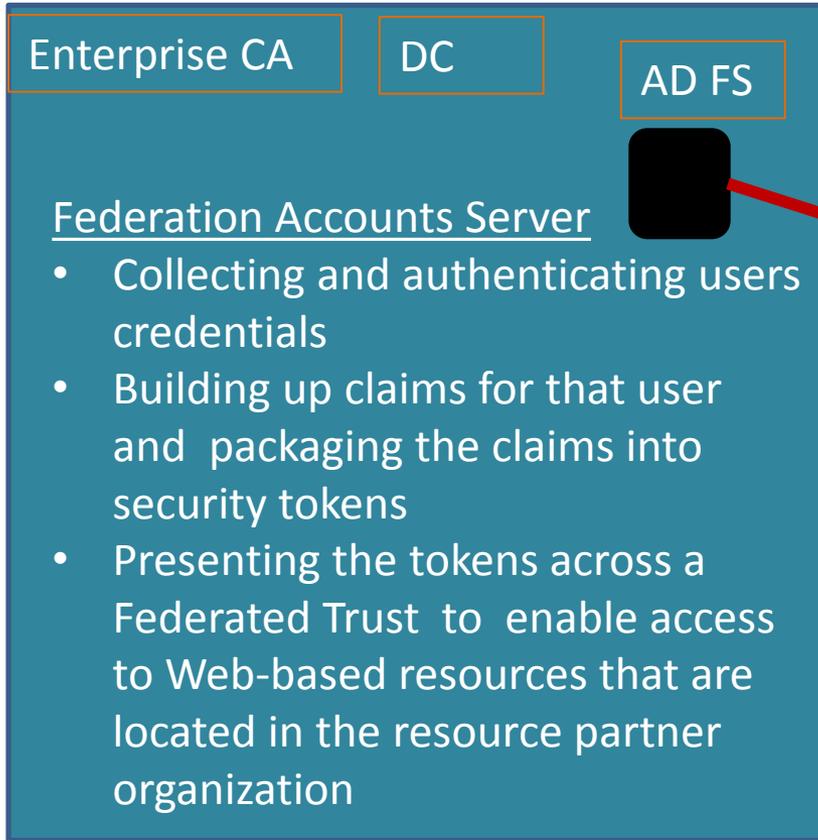


AD FS Relying Party Trust

Server 2012R2

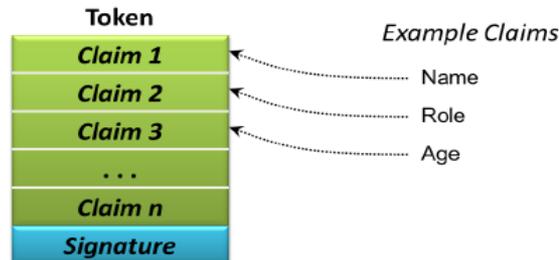
COMPANY A – Accounts Partner

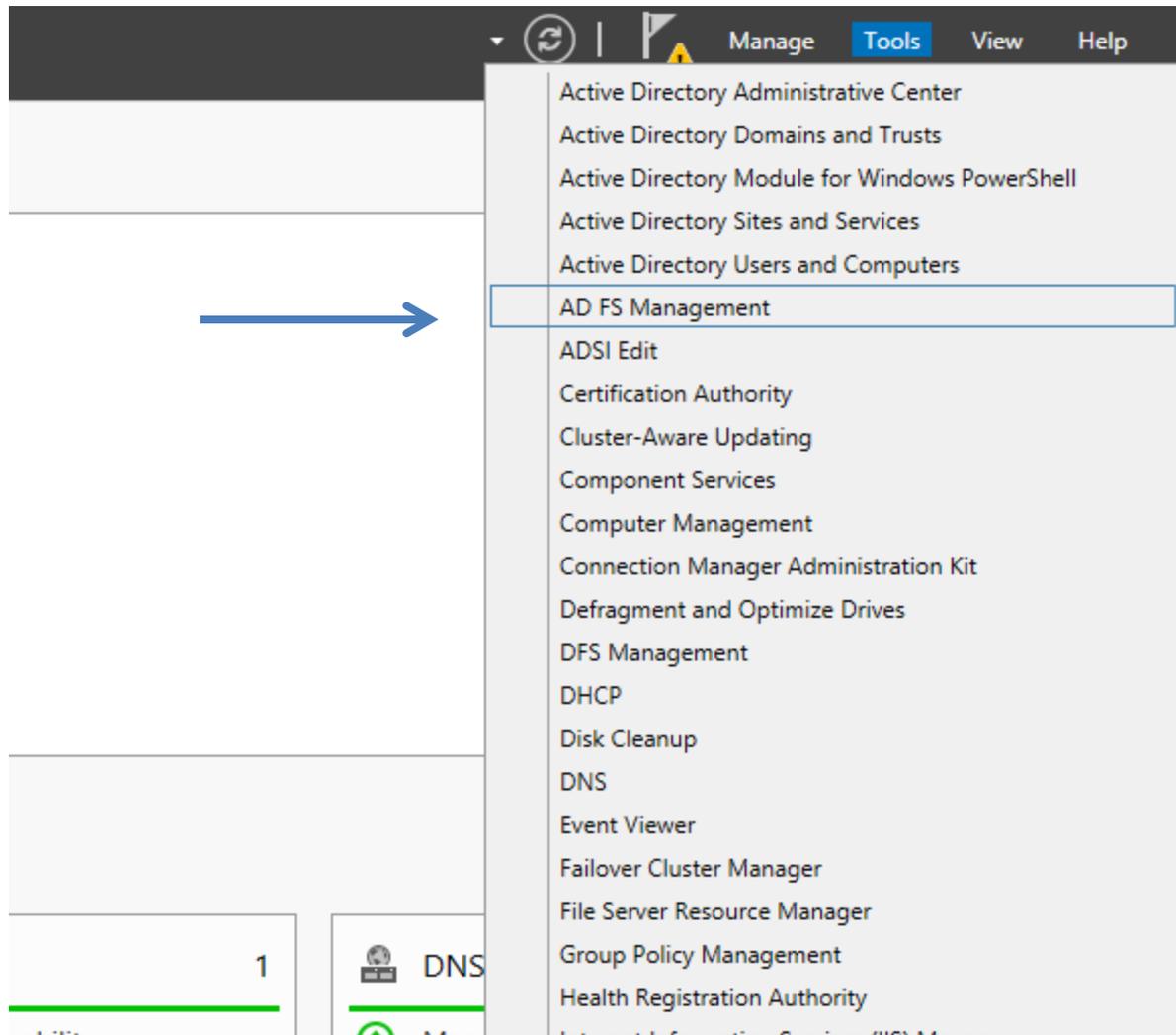


COMPANY B – Resource Partner



In a claims-based world, a token contains one or more *claims*, each of which carries some piece of information about the user it identifies.







- AD FS
 - Service
 - Endpoints
 - Certificates
 - Claim Descriptions
 - Trust Relationships
 - Authentication



Trust Relationships

Trust Relationships Overview

AD FS uses trust relationships to manage how claims are accepted and issued from the Federation Service. Claims provider trusts contain configuration data about claims providers and rules that govern how claims are accepted. Relying party trusts contain configuration data about relying parties and rules that govern how claims are issued.

- Add Relying Party Trust...
- Add Non-Claims-Aware Relying Party Trust...
- Add Claims Provider Trust...
- Add Attribute Store...
- View
- New Window from Here
- Refresh
- Help

Actions

Trust Relationships

- Add Relying Party Trust...
- Add Non-Claims-Aware Relying Party Trust...
- Add Claims Provider Trust...
- Add Attribute Store...
- View
- New Window from Here
- Refresh
- Help



Welcome

Steps

- Welcome
- Select Data Source
- Configure Multi-factor Authentication Now?
- Choose Issuance Authorization Rules
- Ready to Add Trust
- Finish

Welcome to the Add Relying Party Trust Wizard

This wizard will help you add a new relying party trust to the AD FS configuration database. Relying parties consume claims in security tokens that are issued by this Federation Service to make authentication and authorization decisions.

The relying party trust that this wizard creates defines how this Federation Service recognizes the relying party and issues claims to it. You can define issuance transform rules for issuing claims to the relying party after you complete the wizard.

< Previous

Start

Cancel

Add Relying Party Trust Wizard

Select Data Source

Steps

- Welcome
- Select Data Source
- Configure Multi-factor Authentication Now?
- Choose Issuance Authorization Rules
- Ready to Add Trust
- Finish

Select an option that this wizard will use to obtain data about this relying party:

- Import data about the relying party published online or on a local network
Use this option to import the necessary data and certificates from a relying party organization that publishes its federation metadata online or on a local network.
Federation metadata address (host name or URL): Name of the other AD FS server
Example: fs.contoso.com or https://www.contoso.com/app
- Import data about the relying party from a file
Use this option to import the necessary data and certificates from a relying party organization that has exported its federation metadata to a file. Ensure that this file is from a trusted source. This wizard will not validate the source of the file.
Federation metadata file location:
- Enter data about the relying party manually
Use this option to manually input the necessary data about this relying party organization.

If you do not have a direct connection between the two servers you can use the second option.
Certificate used by first server must be trusted by the second server. The next slide explains.

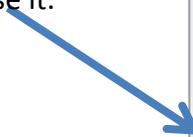


AD FS
Service
Endpoints
Certificates
Claim Descriptions
Trust Relationships
Claims Provider Trusts
Relying Party Trusts
Attribute Stores
Authentication Policies

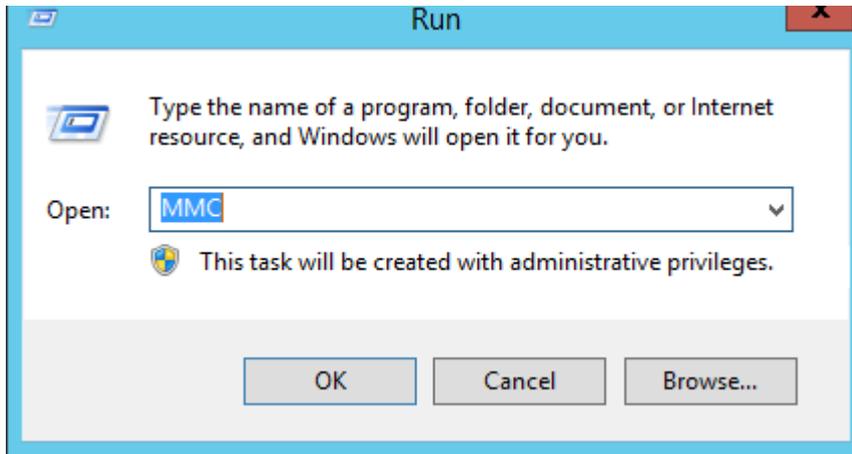
Endpoints

Enabled	Proxy Enabled	URL Path	Type
No	No	/adfs/services/trust/2005/issuedtokensymmetrictriplede...	WS-Trust 2005
No	No	/adfs/services/trust/2005/issuedtokensymmetrictriplede...	WS-Trust 2005
No	No	/adfs/services/trust/2005/issuedtokenmixedsymmetrictripl...	WS-Trust 2005
No	No	/adfs/services/trust/2005/issuedtokenmixedsymmetrictripl...	WS-Trust 2005
Yes	No	/adfs/services/trust/13/kerberosmixed	WS-Trust 1.3
No	No	/adfs/services/trust/13/certificate	WS-Trust 1.3
Yes	Yes	/adfs/services/trust/13/certificatemixed	WS-Trust 1.3
No	No	/adfs/services/trust/13/certificatetransport	WS-Trust 1.3
No	No	/adfs/services/trust/13/useame	WS-Trust 1.3
No	No	/adfs/services/trust/13/useamebasictransport	WS-Trust 1.3
Yes	Yes	/adfs/services/trust/13/useamemixed	WS-Trust 1.3
No	No	/adfs/services/trust/13/issuedtokenasymmetricbasic256	WS-Trust 1.3
No	No	/adfs/services/trust/13/issuedtokenasymmetricbasic256sh...	WS-Trust 1.3
Yes	Yes	/adfs/services/trust/13/issuedtokenmixedasymmetricbasic...	WS-Trust 1.3
No	No	/adfs/services/trust/13/issuedtokenmixedasymmetricbasic...	WS-Trust 1.3
Yes	Yes	/adfs/services/trust/13/issuedtokenmixedsymmetricbasic2...	WS-Trust 1.3
No	No	/adfs/services/trust/13/issuedtokenmixedsymmetricbasic2...	WS-Trust 1.3
No	No	/adfs/services/trust/13/issuedtokensymmetricbasic256	WS-Trust 1.3
No	No	/adfs/services/trust/13/issuedtokensymmetricbasic256sha...	WS-Trust 1.3
No	No	/adfs/services/trust/13/issuedtokensymmetrictriplede...	WS-Trust 1.3
No	No	/adfs/services/trust/13/issuedtokensymmetrictriplede...	WS-Trust 1.3
No	No	/adfs/services/trust/13/issuedtokenmixedsymmetrictriplede...	WS-Trust 1.3
No	No	/adfs/services/trust/13/issuedtokenmixedsymmetrictriplede...	WS-Trust 1.3
No	No	/adfs/services/trust/13/windows	WS-Trust 1.3
No	No	/adfs/services/trust/13/windowsmixed	WS-Trust 1.3
No	No	/adfs/services/trust/13/windowstransport	WS-Trust 1.3
Yes	No	/adfs/services/trusttcp/windows	WS-Trust 2005
No	No	/adfs/services/trust/artifactresolution	SAML-ArtifactResolution
Yes	Yes	/adfs/oauth2/	OAuth
Metadata			
Yes	Yes	/adfs/services/trust/mex	WS-MEX
Yes	Yes	/FederationMetadata/2007-06/FederationMetadata.xml	Federation Metadata
Yes	No	/adfs/fs/federationsservice.asmx	ADFS 1.0 Metadata
Proxy			
Yes	No	/adfs/proxy/	Web Application Proxy
Yes	No	/adfs/proxy/EstablishTrust/	Web Application Proxy
Other			

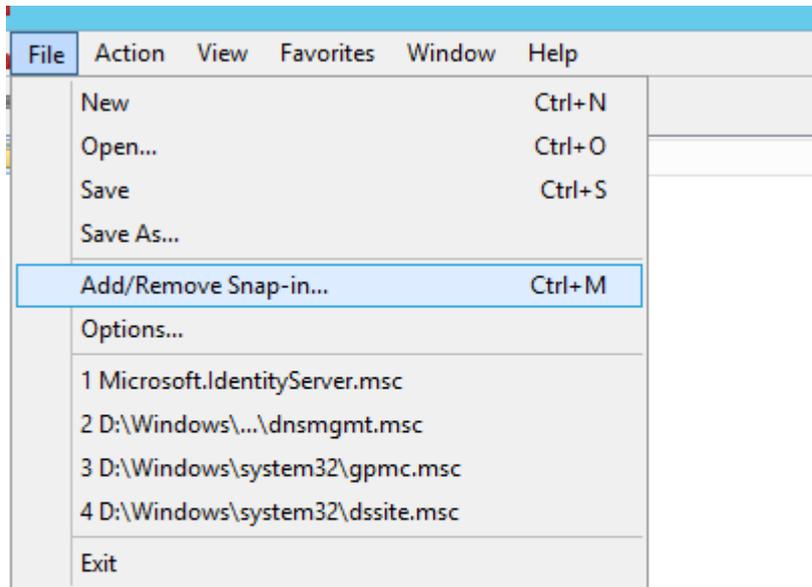
This file contains all the Configuration info about the other Server. Another Federation server can read This info and use it.



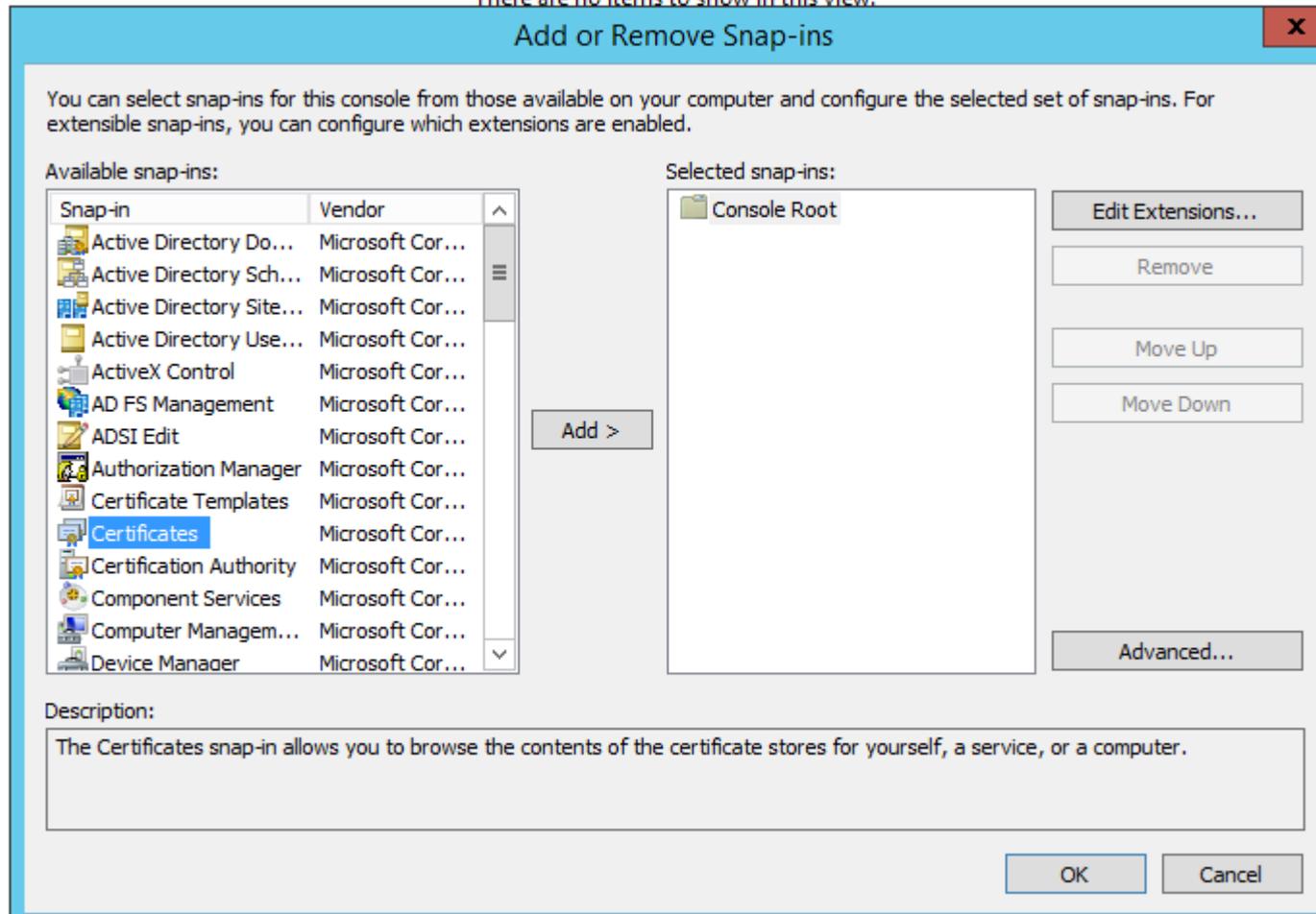
Transferring the certificate to the second AD FS Server



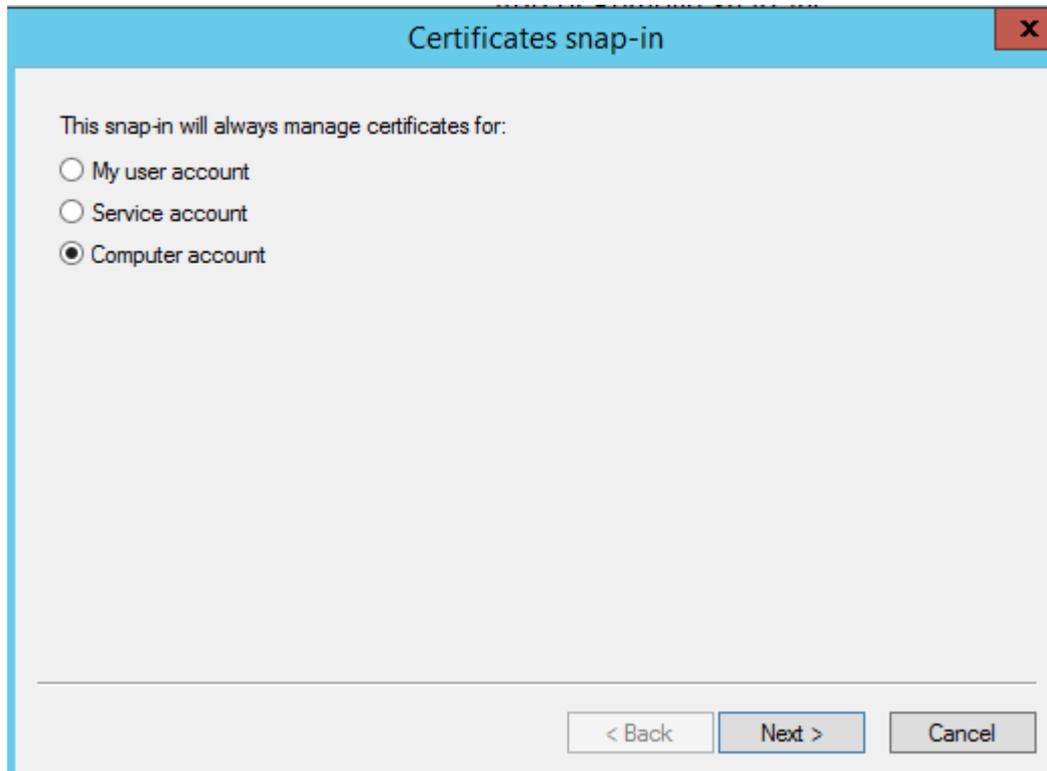
- From the run type mmc and click on ok
- In the mmc console click on Add/Remove Snap-in



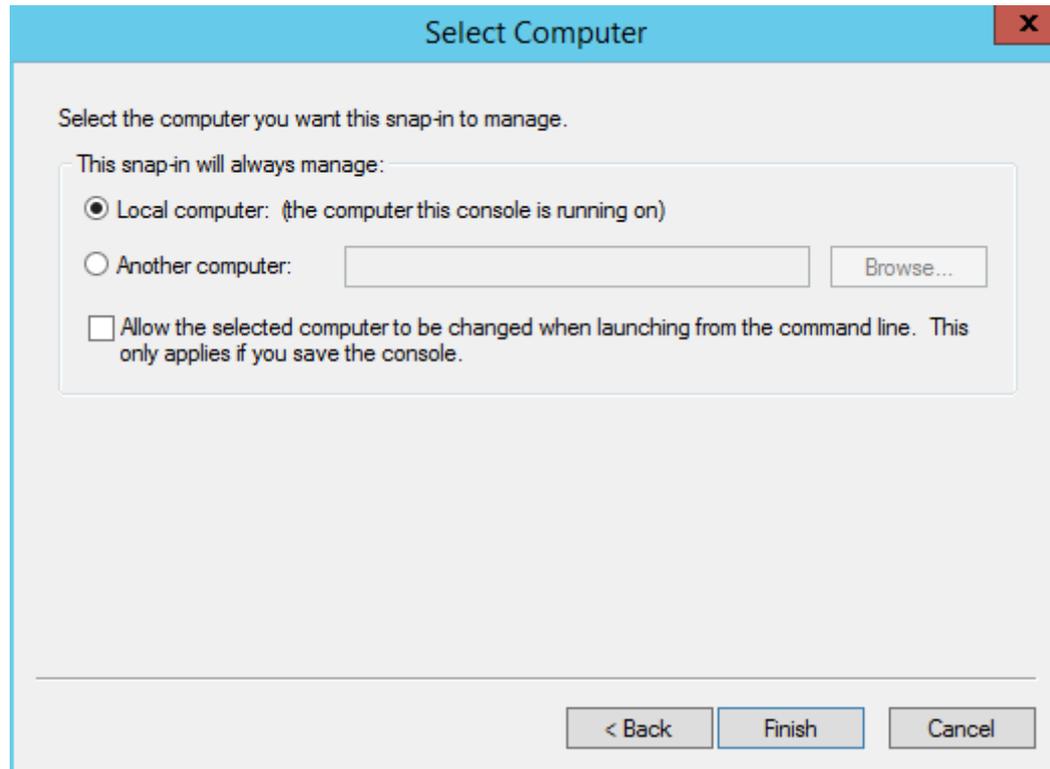
THERE ARE NO ITEMS TO SHOW IN THIS VIEW.



Select certificates then click on Add



Select computer account and click next



Select local computer then click finish

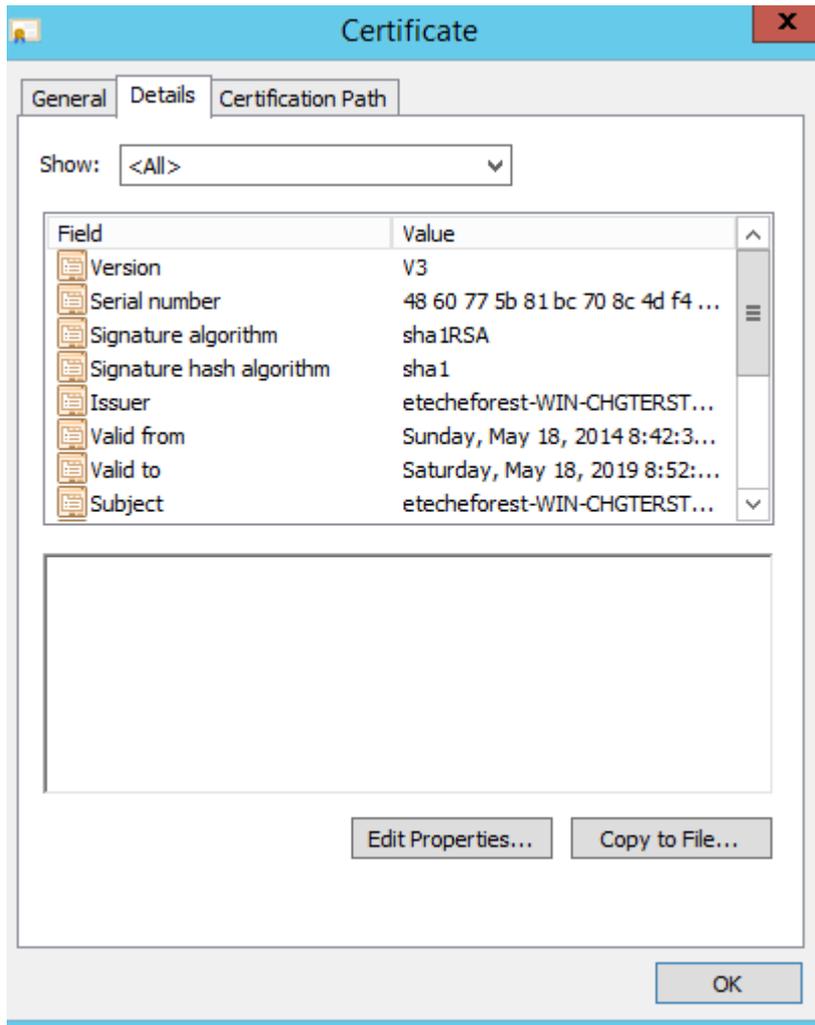
File Action View Favorites Window Help



- Console Root
 - Certificates (Local Computer)
 - Personal
 - Certificates
 - Trusted Root Certification Authorities
 - Enterprise Trust
 - Intermediate Certification Authorities
 - Trusted Publishers
 - Untrusted Certificates
 - Third-Party Root Certification Authorities
 - Trusted People
 - Client Authentication Issuers
 - Other People
 - AdfsTrustedDevices
 - Remote Desktop
 - Certificate Enrollment Requests
 - Smart Card Trusted Roots
 - Trusted Devices
 - Web Hosting

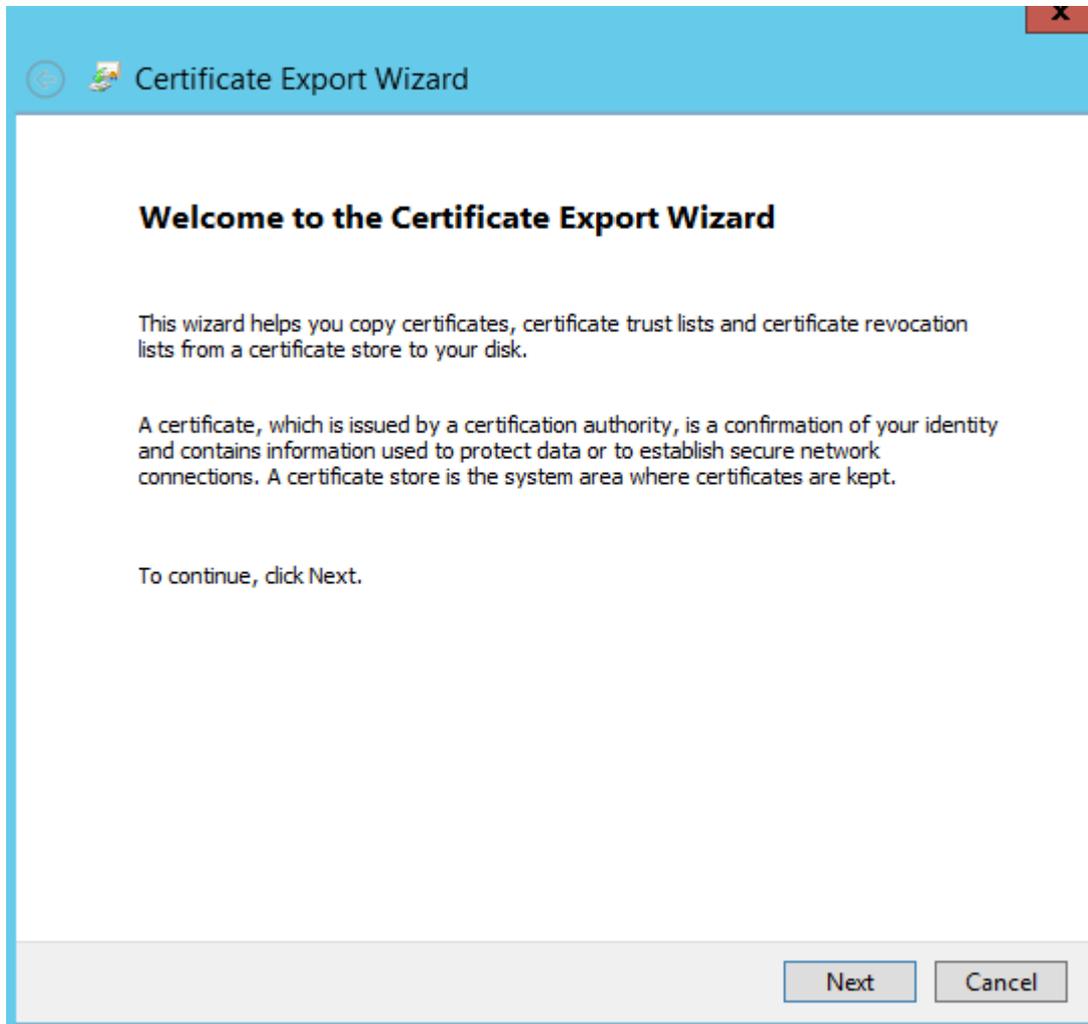
Issued To	Issued By	Expiration Date	Intended Purposes	Friendly Name
DirectAccess-NLS.etccheforest...	DirectAccess-NLS.etccheforest.com	11/26/2019	Server Authenticati...	DirectAccess-NLS
DirectAccess-RADIUS-Encrypt-...	DirectAccess-RADIUS-Encrypt-WI...	11/26/2019	<All>	Certificate issued
etccheforest-WIN-CHGTERST4...	etccheforest-WIN-CHGTERST4UP...	5/18/2019	<All>	<None>
WIN-CHGTERST4UP.etcchefore...	etccheforest-WIN-CHGTERST4UP...	5/20/2016	Client Authenticati...	<None>

Expand Certificates (Local Computer), Expand Personal
Select Certificates

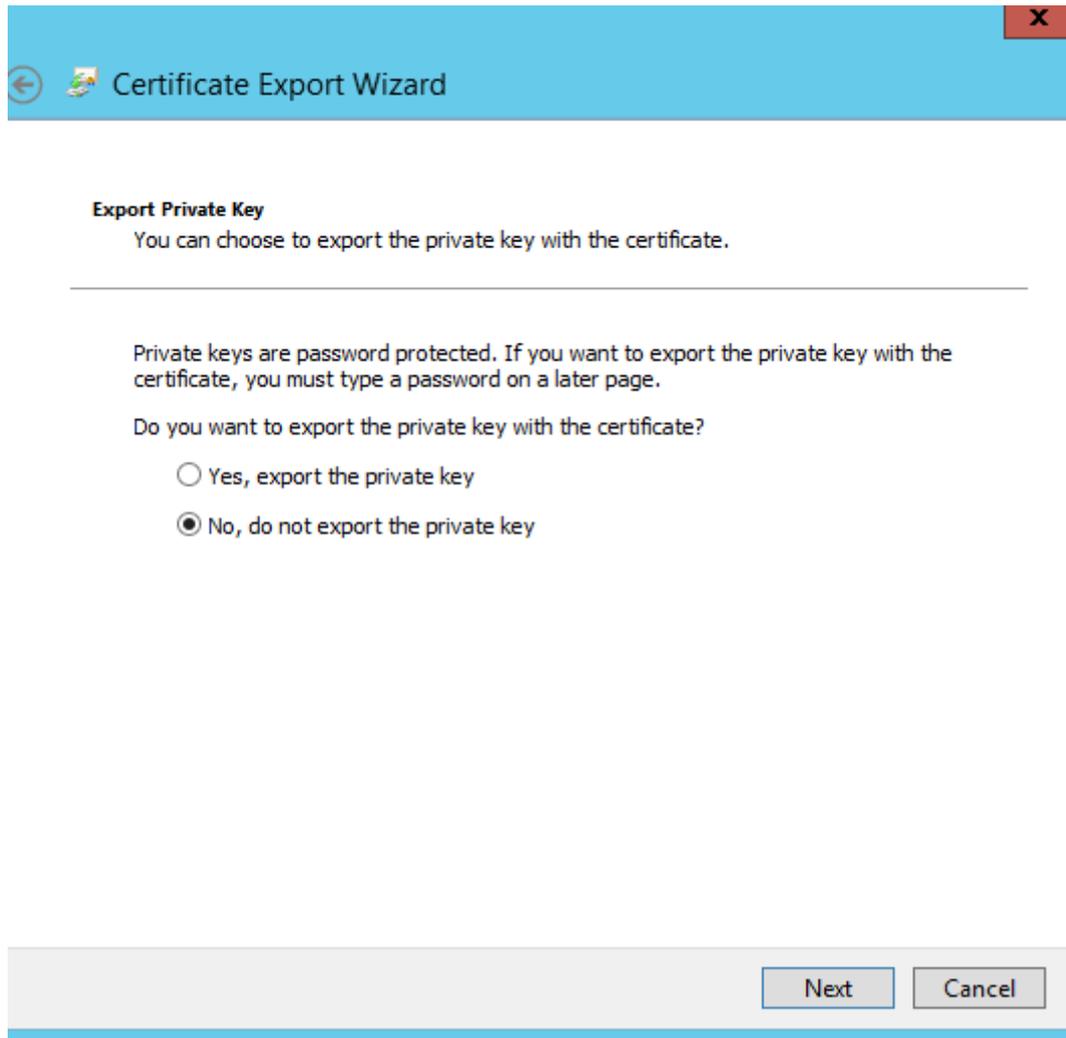


Double click the certificate and click on the details tab

Click on copy to file



Click Next



Click Next



Certificate Export Wizard



Export File Format

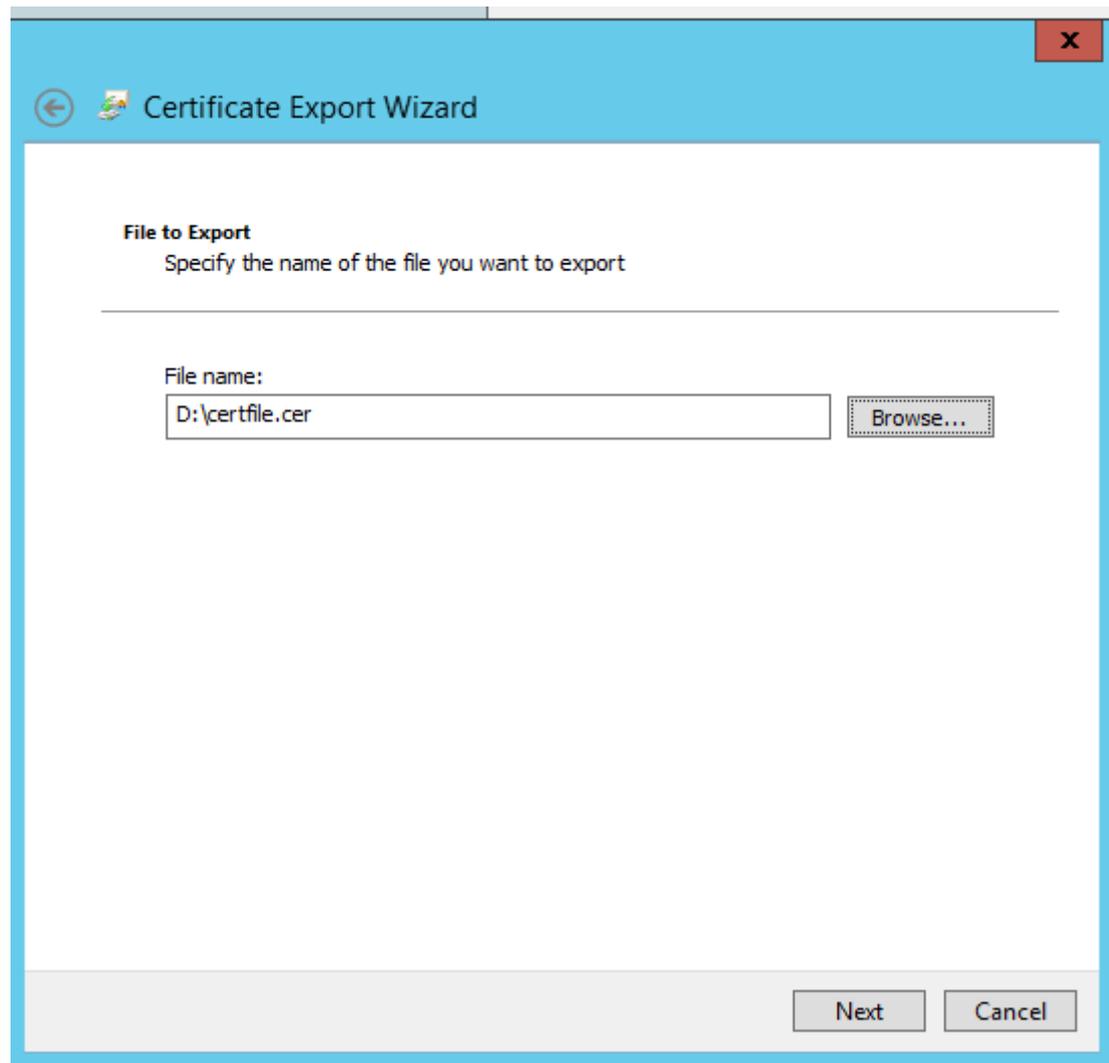
Certificates can be exported in a variety of file formats.

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
 - Delete the private key if the export is successful
 - Export all extended properties
- Microsoft Serialized Certificate Store (.SST)

Next

Cancel



Type the name of file and choose your saving location using the browse button



Certificate Export Wizard



Completing the Certificate Export Wizard

You have successfully completed the Certificate Export wizard.

You have specified the following settings:

File Name	D:\certfile.cer
Export Keys	No
Include all certificates in the certification path	No
File Format	DER Encoded Binary X.509 (*.cer)

Certificate Export Wizard



The export was successful.

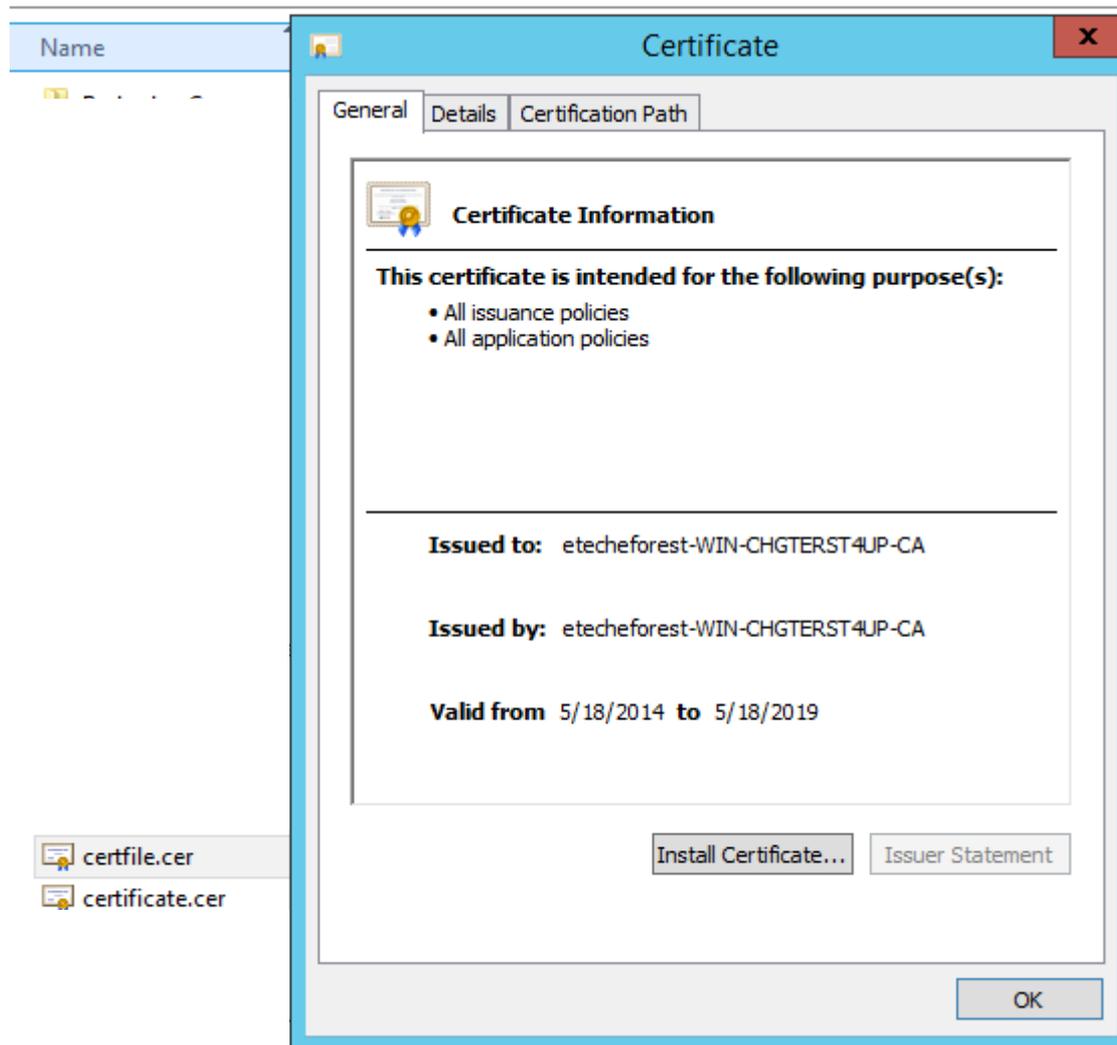
OK

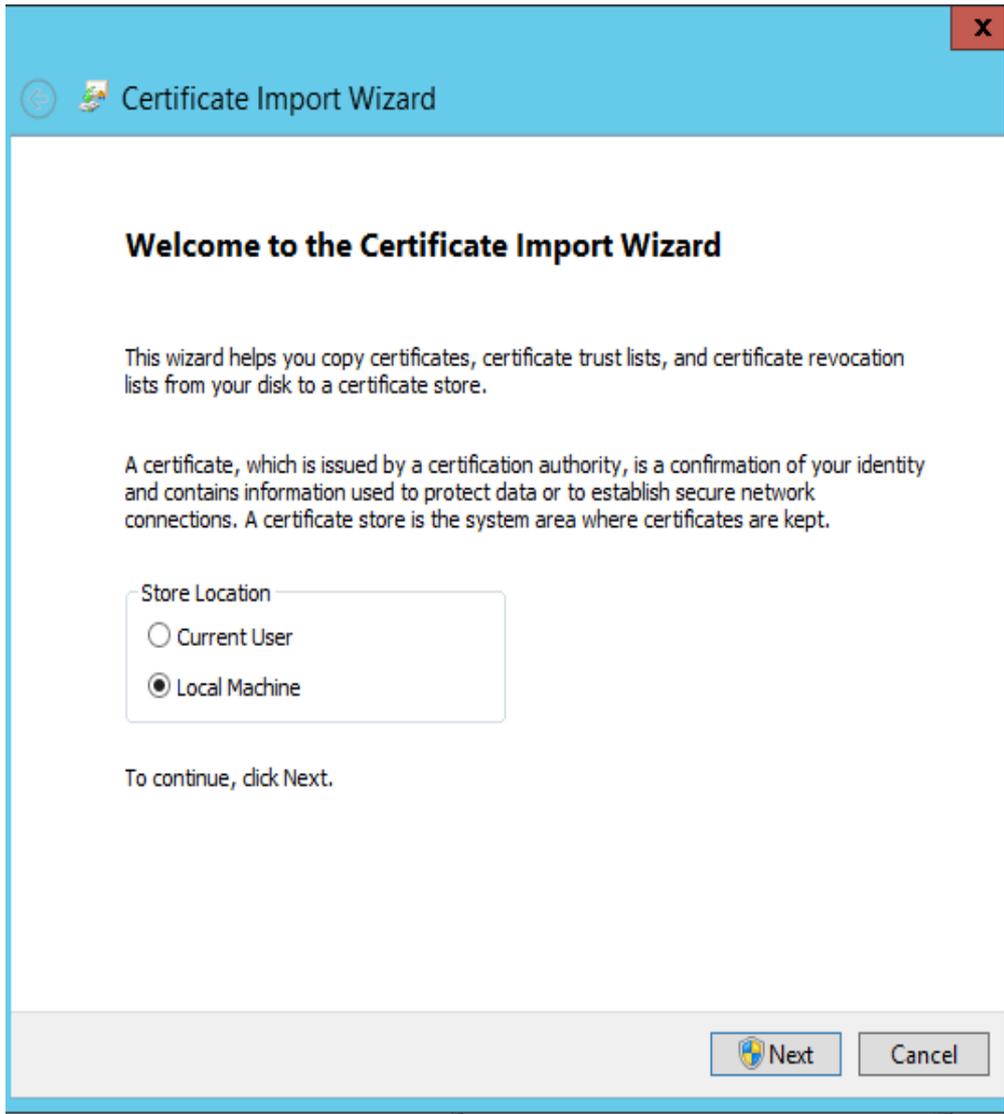
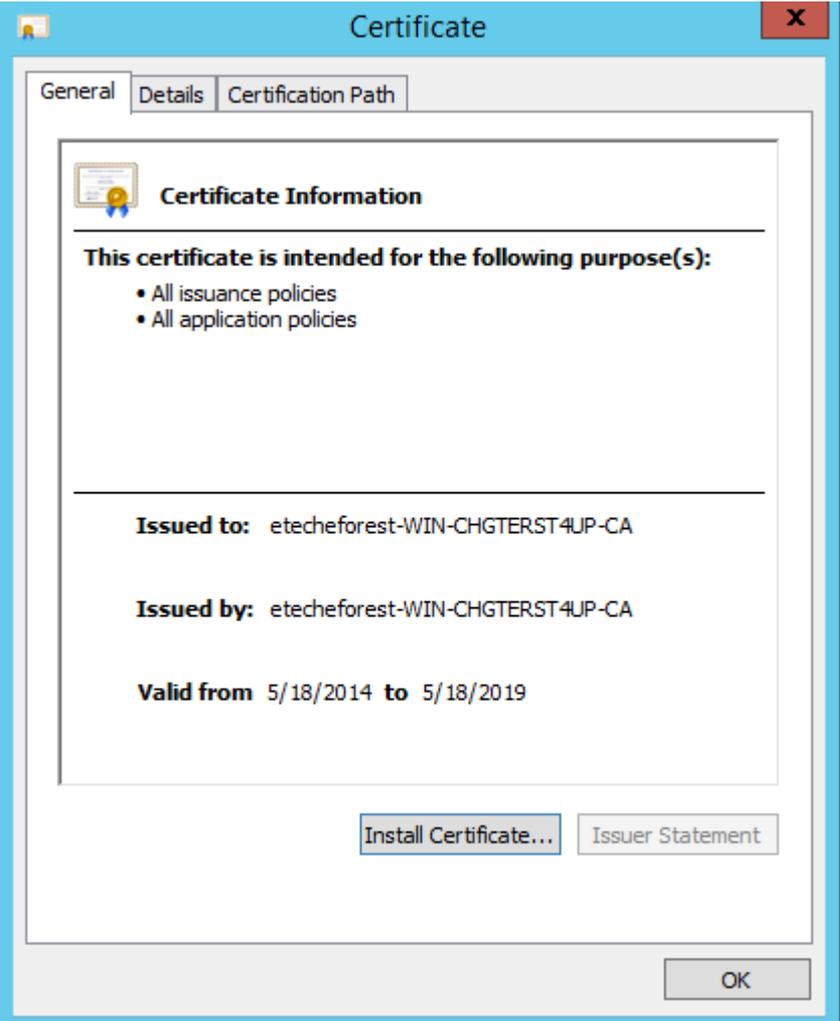
Finish

Cancel

Go to the second server

Using Windows explorer navigate the exported certificate and double click to open it





Click on install then select local machine



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.

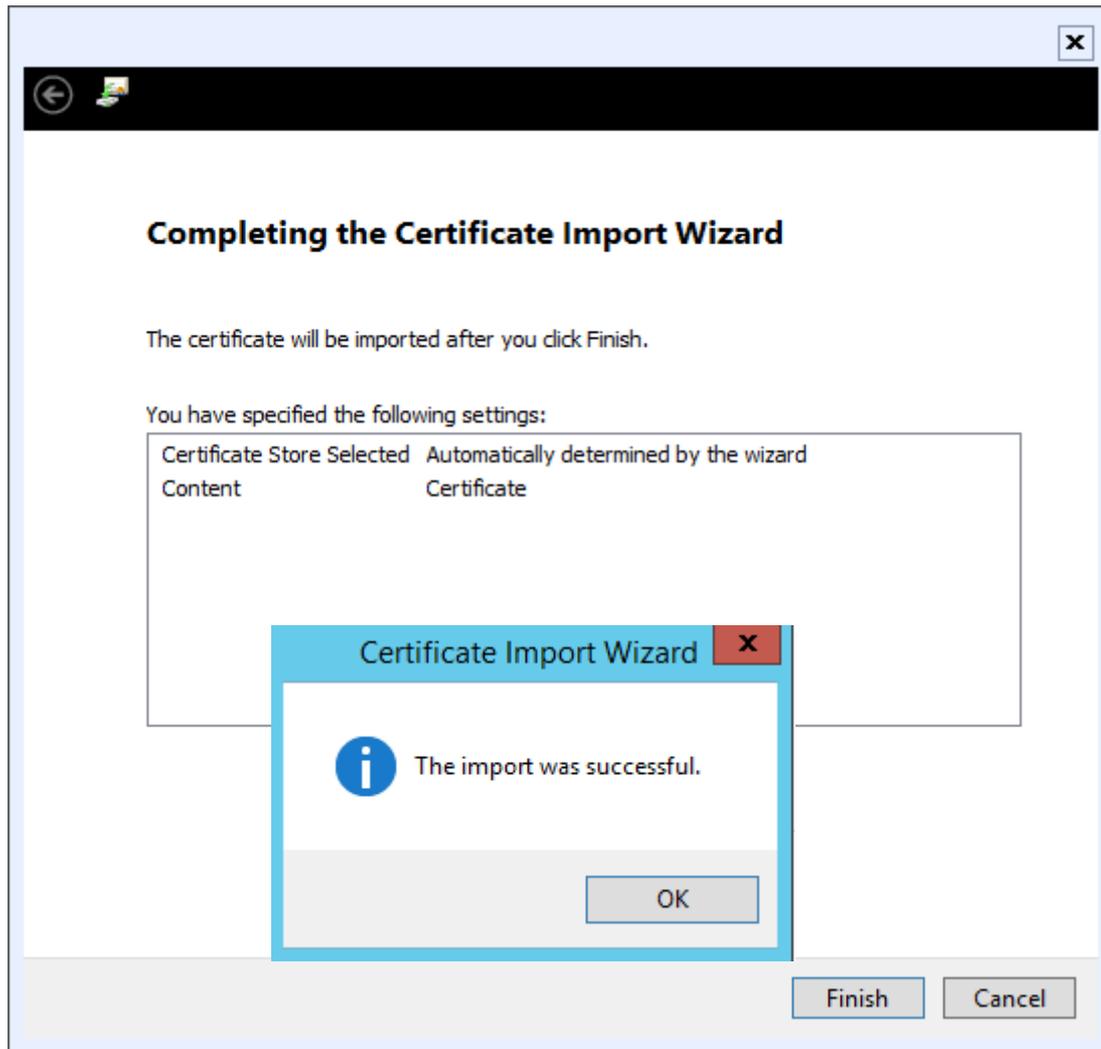
- Automatically select the certificate store based on the type of certificate
- Place all certificates in the following store

Certificate store:

Browse...

Next

Cancel



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 the wizard
Content	Certificate

 The import was successful.

OK

Finish

Cancel



Add Relying Party Trust Wizard



Specify Display Name

Steps

- Welcome
- Select Data Source
- Specify Display Name
- Configure Multi-factor Authentication Now?
- Choose Issuance Authorization Rules
- Ready to Add Trust
- Finish

Enter the display name and any optional notes for this relying party.

Display name:

Notes:

< Previous Next > Cancel



Add Relying Party Trust Wizard



Steps

- Welcome
- Select Data Source
- Specify Display Name
- Configure Multi-factor Authentication Now?
- Choose Issuance Authorization Rules
- Ready to Add Trust
- Finish

Configure multi-factor authentication settings for this relying party trust. Multi-factor authentication is required if there is a match for any of the specified requirements.

Multi-factor Authentication		Global Settings
Requirements	Users/Groups	Not configured
	Device	Not configured
	Location	Not configured

- I do not want to configure multi-factor authentication settings for this relying party trust at this time.
- Configure multi-factor authentication settings for this relying party trust.

You can also configure multi-factor authentication settings for this relying party trust by navigating to the Authentication Policies node. For more information, see [Configuring Authentication Policies](#).

< Previous

Next >

Cancel



Choose Issuance Authorization Rules

Steps

- Welcome
- Select Data Source
- Specify Display Name
- Configure Multi-factor Authentication Now?
- Choose Issuance Authorization Rules**
- Ready to Add Trust
- Finish

Issuance authorization rules determine whether a user is permitted to receive claims for the relying party. Choose one of the following options for the initial behavior of this relying party's issuance authorization rules.

Permit all users to access this relying party

The issuance authorization rules will be configured to permit all users to access this relying party. The relying party service or application may still deny the user access.

Deny all users access to this relying party

The issuance authorization rules will be configured to deny all users access to this relying party. You must later add issuance authorization rules to enable any users to access this relying party.

You can change the issuance authorization rules for this relying party trust by selecting the relying party trust and clicking Edit Claim Rules in the Actions pane.

< Previous

Next >

Cancel



Add Relying Party Trust Wizard



Ready to Add Trust

Steps

- Welcome
- Select Data Source
- Specify Display Name
- Configure Multi-factor Authentication Now?
- Choose Issuance Authorization Rules
- Ready to Add Trust
- Finish

The relying party trust has been configured. Review the following settings, and then click Next to add the relying party trust to the AD FS configuration database.

Encryption | Signature | Accepted Claims | Organization | Endpoints | Notes | Advanced | < | >

Specify the encryption certificate for this relying party trust.

Encryption certificate:

Issuer: CN=ADFS Encryption - WIN-CHGTERST4UP.etccheforest.com
Subject: CN=ADFS Encryption - WIN-CHGTERST4UP.etccheforest.com
Effective date: 5/30/2015 6:38:16 PM
Expiration date: 5/29/2016 6:38:16 PM

View...

< Previous

Next >

Cancel



Add Relying Party Trust Wizard



Ready to Add Trust

Steps

- Welcome
- Select Data Source
- Specify Display Name
- Configure Multi-factor Authentication Now?
- Choose Issuance Authorization Rules
- Ready to Add Trust
- Finish

The relying party trust has been configured. Review the following settings, and then click Next to add the relying party trust to the AD FS configuration database.

Encryption Signature Accepted Claims Organization Endpoints Notes Advanced < >

Specify the signature verification certificates for requests from this relying party.

Subject	Issuer	Effective Date	Expiration Date
 CN=ADFS Sig...	CN=ADFS Signi...	5/30/2015 6:38:...	5/29/2016 6:38:...

View...

< Previous

Next >

Cancel



Add Relying Party Trust Wizard



Ready to Add Trust

Steps

- Welcome
- Select Data Source
- Specify Display Name
- Configure Multi-factor Authentication Now?
- Choose Issuance Authorization Rules
- Ready to Add Trust
- Finish

The relying party trust has been configured. Review the following settings, and then click Next to add the relying party trust to the AD FS configuration database.

Encryption	Signature	Accepted Claims	Organization	Endpoints	Notes	Advanced	<	>
This relying party publishes the following claim types as accepted claim types in federation metadata.								
Accepted Clai...	Required							
E-Mail Address	No							
Given Name	No							
Name	No							
UPN	No							
Common Name	No							
AD FS 1x E-M...	No							
Group	No							
AD FS 1x UPN	No							
Role	No							
Surname	No							
PPID	No							
Name ID	No							
Authentication t...	No							
Authentication ...	No							
Deny only grou...	No							
Deny only prim...	No							
Deny only prim...	No							
Group SID	No							
Primary group S...	No							

< Previous

Next >

Cancel



Add Relying Party Trust Wizard



Ready to Add Trust

Steps

- Welcome
- Select Data Source
- Specify Display Name
- Configure Multi-factor Authentication Now?
- Choose Issuance Authorization Rules
- Ready to Add Trust
- Finish

The relying party trust has been configured. Review the following settings, and then click Next to add the relying party trust to the AD FS configuration database.

Encryption	Signature	Accepted Claims	Organization	Endpoints	Notes	Advanced	<	>
------------	-----------	-----------------	--------------	-----------	-------	----------	---	---

This relying party publishes the following organization information in federation metadata.

< Previous Next > Cancel



Add Relying Party Trust Wizard



Ready to Add Trust

Steps

- Welcome
- Select Data Source
- Specify Display Name
- Configure Multi-factor Authentication Now?
- Choose Issuance Authorization Rules
- Ready to Add Trust
- Finish

The relying party trust has been configured. Review the following settings, and then click Next to add the relying party trust to the AD FS configuration database.

Encryption	Signature	Accepted Claims	Organization	Endpoints	Notes	Advanced	<	>
Specify the endpoints to use for SAML and WS-Federation Passive protocols.								
URL	Index	Binding	Default	Response URL				
WS-Federation Passive Endpoints								
https://win-chgterst4up.etch...		POST	Yes					
SAML Assertion Consumer Endpoints								
https://win-chgterst4up.etch...	0	POST	Yes					
https://win-chgterst4up.etch...	1	Artifact	No					
https://win-chgterst4up.etch...	2	Redirect	No					
SAML Logout Endpoints								
https://win-chgterst4up.etch...		Redirect	No					
https://win-chgterst4up.etch...		POST	No					

< Previous

Next >

Cancel



Add Relying Party Trust Wizard



Ready to Add Trust

Steps

- Welcome
- Select Data Source
- Specify Display Name
- Configure Multi-factor Authentication Now?
- Choose Issuance Authorization Rules
- Ready to Add Trust
- Finish

The relying party trust has been configured. Review the following settings, and then click Next to add the relying party trust to the AD FS configuration database.

Encryption	Signature	Accepted Claims	Organization	Endpoints	Notes	Advanced	<	>
------------	-----------	-----------------	--------------	-----------	-------	----------	---	---

Specify any notes about this relying party trust.

Notes:

Claims server

< Previous

Next >

Cancel

Ready to Add Trust

- Steps**
- Welcome
 - Select Data Source
 - Specify Display Name
 - Configure Multi-factor Authentication Now?
 - Choose Issuance Authorization Rules
 - Ready to Add Trust
 - Finish

The relying party trust has been configured. Review the following settings, and then click Next to add the relying party trust to the AD FS configuration database.

Encryption	Signature	Accepted Claims	Organization	Endpoints	Notes	Advanced	< >
------------	-----------	-----------------	--------------	-----------	-------	----------	-----

Specify the secure hash algorithm to use for this relying party trust.

Secure hash algorithm:



Add Relying Party Trust Wizard



Finish

Steps

- Welcome
- Select Data Source
- Specify Display Name
- Configure Multi-factor Authentication Now?
- Choose Issuance Authorization Rules
- Ready to Add Trust
- Finish

The relying party trust was successfully added to the AD FS configuration database.

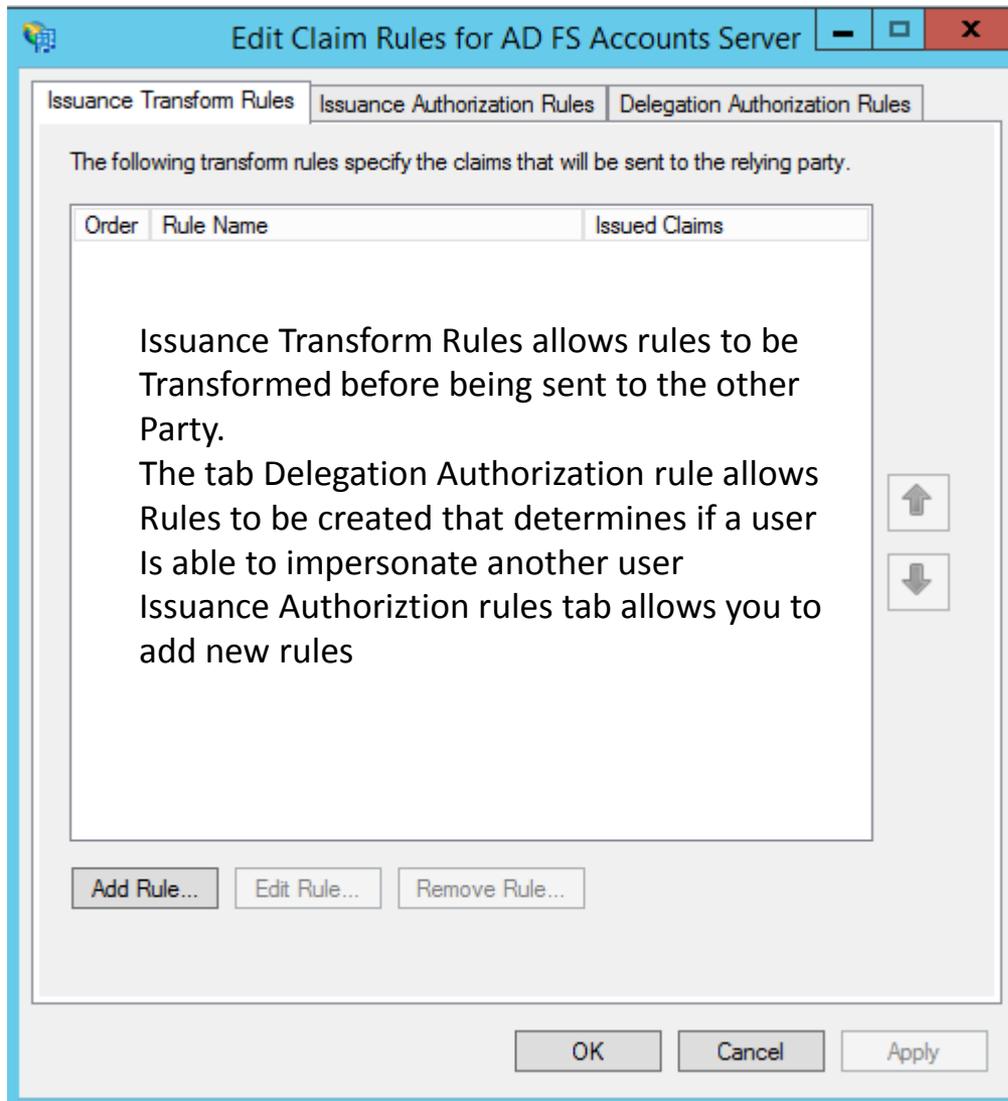
You can modify this relying party trust by using the Properties dialog box in the AD FS Management snap-in.

- Open the Edit Claim Rules dialog for this relying party trust when the wizard closes

Close

Editing claims

Right click the Relying Trust and click on Edit claims rules





Add Issuance Authorization Claim Rule Wizard



Select Rule Template

Steps

- Choose Rule Type
- **Configure Claim Rule**

Select the template for the claim rule that you want to create from the following list. The description provides details about each claim rule template.

Claim rule template:

- Permit or Deny Users Based on an Incoming Claim
- Permit or Deny Users Based on an Incoming Claim
- Permit All Users
- Send LDAP Attributes as Claims
- Send Group Membership as a Claim**
- Transform an Incoming Claim
- Pass Through or Filter an Incoming Claim
- Send Claims Using a Custom Rule

template. Users who are permitted to access the relying party from the federation service may still be denied service by the relying party.

or deny users
you can use
value of
All Users rule

< Previous

Next >

Cancel



Add Transform Claim Rule Wizard



Select Rule Template

Steps

- Choose Rule Type
- **Configure Claim Rule**

Select the template for the claim rule that you want to create from the following list. The description provides details about each claim rule template.

Claim rule template:

Send Group Membership as a Claim

Claim rule template description:

Using the Send Group Membership as a Claim rule template you can select an Active Directory security group to send as a claim. Only a single claim will be emitted from this rule, based on the group selected. For example, you can use this rule template to create a rule that will send a group claim with a value of "Admin" if the user is a member of the "Domain Admins" security group. This rule template should only be used for users of the local Active Directory Domain.

< Previous

Next >

Cancel



Configure Rule

Steps

- Choose Rule Type
- **Configure Claim Rule**

You can configure this rule to send a claim based on a user's Active Directory group membership. Specify the group that the user is a member of, and specify the outgoing claim type and value to issue.

Claim rule name:

Rule template: Send Group Membership as a Claim

User's group:

Browse...

Outgoing claim type:

Outgoing name ID format:

Outgoing claim value:

< Previous

Finish

Cancel



Add Issuance Authorization Claim Rule Wizard



Configure Rule

Steps

- Choose Rule Type
- **Configure Claim Rule**

You can configure this rule to send a claim based on a user's Active Directory group membership. Specify the group that the user is a member of, and specify the outgoing claim type and value to issue.

Claim rule name:

Rule template: Send Group Membership as a Claim

User's group:

Outgoing claim type:

Specify Claim Type...
E-Mail Address
Given Name
Name
UPN
Common Name
AD FS 1.x E-Mail Address
Group
AD FS 1.x UPN
Role
Surname
PPID
Name ID
Authentication time stamp
Authentication method
Deny only group SID
Deny only primary SID
Deny only primary group SID
Group SID
Primary group SID
Primary SID
Windows account name
Is Registered User
Device Identifier
Device Registration Identifier
Device Registration DisplayName
Device OS type
Device OS Version
Is Managed Device
Forwarded Client IP