

Date: 28/04/2022 Version: 1.0

Censornet Archive – OAuth with ADFS Configuration Guide



Contents

Introduction
ADFS side Settings - Step by Step
Step 1: Register an ADFS Client for OAuth4
Step 2: Create a Relying Party Trust5
Step 3: Create a Rule to Send LDAP Attributes as Claims for a Relying Party Trust
Step 4: Set the option "EnableJWT" to true
Step 5: Grant permission to registered client app to access relying party
Censornet Side Settings
Create the OAuth connection for Microsoft ADFS provider type
Access Control
Local User Accounts for OAuth
Censornet Archiving OAuth Configuration16
Modify registration settings for an OAuth client registered with ADFS16
Check the registration settings for an OAuth client registered with ADFS
Remove OAuth client registered with ADFS16



Introduction

This document shows how to configure OAuth for user's authentication against on premise Microsoft Active Directory via Active Directory Federated Service (ADFS).



ADFS side Settings - Step by Step

A quick run through of the steps involved in supporting the Active Directory Federation Services (ADFS) for authentication using OAUTH2 in Windows Server 2012 R2 and above.

Step 1: Register an ADFS Client for OAuth

Register the OAuth client with ADFS by using calling PowerShell cmdlet. A template for the command is shown here – showing key elements that you will need to supply:

Add-AdfsClient -Name <ClientApp> -ClientId <ClientId> -RedirectUri https://archive.clouduss.com/uss/microsoftoauth.do -Description "ADFS OAuth" Where:

-ClientId: Client identifier for the OAuth client to register with ADFS. It can be set as any *random string that is likely to be unique for this client. Note that the same string needs to be specified under OAuth connection created at Censornet Archive end. Replace the <ClientId> with a reasonably long text string (e.g. "71d3cf488b4bf413547e83410e047885f3148ec5bcd90913") that cannot be easily

guessed.

*Note - You can use an online UUID tool for the creation of the ClientId

-RedirectUri: Specifies your Censornet Archive redirection URIs to register with ADFS against this OAuth client. Except URIs registered here, no other URI can be used as target endpoint for successful authentication by ADFS.

*Replace the <https://archive.clouduss.com/uss/microsoftoauth.do> with your Censornet Archive region hostname.

*Check Censornet support site for the URL's for Censornet's another Archive regions.

-Description: Any suitable description for the OAuth client

-Name: Any appropriate name for the OAuth client

Replace the **<ClientApp**> with a string value like "Client App", this is likely to be used as the target name for the app.

Example 1: Add a client

```
Add-AdfsClient -Name "CensornetADFS" -ClientId
"71d3cf488b4bf413547e83410e047885f3148ec5bcd90913" -RedirectUri
https://archive.clouduss.com/uss/microsoftoauth.do -Description "ADFS OAuth"
```

Step 2: Create a Relying Party Trust

A new relying party trust needs to be added by using the ADFS Management snap-in. This requires following procedure.

Membership in Administrators or equivalent, on the local computer is the minimum required to complete this procedure.

- 1. In Server Manager, click Tools, and then select **AD FS Management**.
- 2. Under Actions, click Add Relying Party Trust.

** In 11 m
(See Section Frame Window Holp, Control Section Frame Window Holp, Control Section Frame Window Holp, Control Section Secti

3. On the **Welcome** page, choose **Claims aware** and click **Start**.

🗌 Add Relying Party Trust W	izard	>
Welcome		
Welcome Steps • Welcome • Select Data Source • Choose Access Control Polocy • Ready to Add Trust • Prinsh	Welcome to the Add Rolying Party Trust Wizard Inter-sware applications consume claims in security takens to make suffering and explore the second and use Vindows the suffering and the suf	
	< Previous Start Cance	



4. On the Select Data Source page, click Enter data about the relying party manually, and then click Next.

Mi Add Relying Party Trust	Wizard
Select Data Source	
Steps Welcome Select Data Source Specify Display Name Configure Cetificate Configure URL	Select an option that this wizard will use to obtain data about this relying party: O 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 orline or on a local network. Federation metadata address (host name or URL):
Configure Identifiens Ohoose Access Control Policy Ready to Add Trust Finish	Example: fs contose com or https://www.contose.com/app O 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 seponded fits 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.
	< Previous Next > Cancel

 On the Specify Display Name page, type any appropriate name in Display name, under Notes type a description for this relying party trust, and then click Next. This name is to be used as the Target Name for this Relying Party.

🏟 Add Relying Party Trust \	Wizard	\times
Specify Display Name	N	
Steps	Enter the display name and any optional notes for this relying party.	
Welcome	Display name:	
Select Data Source	Censomet Archive	
Specify Display Name	Notes:	
 Configure Certificate 		
Configure URL		
Configure Identifiers		
 Choose Access Control Policy 		~
Ready to Add Trust		_
Finish		
	< Previous Next > Cancel	



6. On the **Configure Certificate** page, just click on the **Next** button.

Steps	Specify an optional token encryption certificate. The token encryption certificate is used to encrypt the cli
Welcome Select Data Source Source Data Source Configure Catfloate Configure URL Configure URL Configure Ventilies Configure Ventilies Console Access Control Polocy Ready to Add Thust Finish	tria ar even to the refuye party. The refung party will use the private key of this certificate to decoupt the clarms that are set in a. To specify the certificate, click Browse.

 On the Configure URL page, select the Enable support for the WS-Federation Passive protocol check box. Under Relying party WS-Federation Passive protocol URL, type the URL for this relying party trust, and then click Next.

This URL can be like https://<your-adfs.fqdn>/adfs/services/trust this must be unique amongst the Relying Parties. Please note that, for the purposes of OAuth, this URL does not need to be a real web address – it is just used as a unique identifier name. It will be used later in Censornet's Archive OAuth configuration and in the **Grant-AdfsApplicationPermission PowerShell command**.

Steps AD FS supports the WS-Trust, WS-Federation and SAML 2.0 Web SSO protocols for relying parties. If • Welcome WS-Federation, SAML, or both are used by the relying party, select the check boxes for them and specify the URLs to use. Support for the WS-Trust protocol is always enabled for a relying party. • Select Data Source Enable support for the WS-Trust protocol is always enabled for a relying party.	Add Relying Party Trust W	Vizard X
Welcome Welcome Welcome Welcome Welcome Welcome Welcome Select Data Source Select Data Source Final S	Configure URL	
	Welcome Select Data Source Specify Display Name Configure Certificate Configure URL Configure Identifiers Choose Access Control Polcy Ready to Add Trust	WS-Federation, SAML, or both are used by the relying party, select the check boxes for them and specify the URLs to use. Support for the WS-Trat protocol is always enabled for a relying party. ☑ Enable support for the WS-Federation Passive protocol The WS-Federation Passive protocol URL supports Web-browser-based claims providers using the WS-Federation Passive protocol URL: https://your-adfs.fqdn/adfs/services/trust Example: https://s.contoso.com/adfs/ls/ Engline support for the SAML 2.0 WebSSO protocol The SAML 2.0 aside agin-on (SSO) service URL supports Web-browser-based claims providers using the SAML 2.0 WebSSO protocol The SAML 2.0 SSO service URL supports Web-browser-based claims providers using the SAML 2.0 WebSSO protocol Relying party SAML 2.0 SSO service URL:



8. On the Configure Identifiers page, click Next.



9. On the **Choose Access Control Policy** select a policy and click **Next**. Choose Access Control Policy

eps	Choose an access control policy:		
Welcome	Name	Description	^
Select Data Source	Permit everyone	Grant access to everyone.	
Specify Display Name	Permit everyone and require MFA	Grant access to everyone and requi	
Configure Certificate	Permit everyone and require MFA for specific group	Grant access to everyone and requi	
Configure URL	Permit everyone and require MFA from extranet access	Grant access to the intranet users a	
	Permit everyone and require MFA from unauthenticated devices	Grant access to everyone and requi	
Configure Identifiers	Permit everyone and require MFA, allow automatic device registr	Grant access to everyone and requi	e
Choose Access Control	Permit everyone for intranet access	Grant access to the intranet users.	
Policy	Parmit manific on in	Grant access to users of one or mor	- 1
Ready to Add Trust		,	-
Finish	Policy		
	☐ I do not want to configure access control policies at this time. No	user will be cermitted access for this	
	application.		

10. On the **Ready to Add Trust** page, review the settings, and then click **Next** to save your relying party trust information.

	The end of the state of the
Welcome	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.
Select Data Source	Monitoring Identifiers Encryption Signature Accepted Claims Organization Endpoints Note + •
Specify Display Name	Specify the monitoring settings for this relying party trust.
Configure Certificate	Relving party's federation metadata URL:
Configure URL	
Configure Identifiers	Monitor relying party
Choose Access Control Policy	Automatically update relying party
Ready to Add Trust	This relying party's federation metadata data was last checked on:
Finish	<pre></pre>
	This relying party was last updated from federation metadata on: $<\mbox{never}>$

11. On the **Finish** page, click **Close**. This action automatically displays the **Edit Claim Rules** dialog box.

输 Add Relying Party Trust Wi	zard	×
Finish		
Steps © Vielcome © Select Data Source © Soporty Display Name © Configure Oetfloate © Configure URL © Configure URL © Configure Identifiems © Choose Access Control Policy © Ready to Add Trust © Prish	The relying party trust was successfully added.	
		Close

Step 3: Create a Rule to Send LDAP Attributes as Claims for a Relying Party Trust

Using the "Send LDAP Attributes as Claims rule" template in AD FS, we can create a rule that will select required attributes from a LDAP attribute store, to send as claims to the relying party.

Membership in **Administrators**, or equivalent, on the local computer is the minimum required to complete this procedure.

- 1. In Server Manager, click **Tools**, and then select **AD FS Management**.
- 2. In the console tree, under **AD FS**, click **Relying Party Trusts**.

AD FS	AD 15	Actives	
Anone Canada Phalana Anone Canada Phalana Phalana Canada Phalana Phalana Canada Phalana Anglinutes Grays	<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	4415 Alt Diryophang Sunt. Alt Diryophang Sunt. Alt Angelesis Stran. Alt Angelesis Stran. Alt Angelesis Stran. Alt Angelesis Stran. Elli Padalast Clare Karela Alt Angelesis Stran. Nan Madaut Angelesis Nan Madaut Angelesis Nan Madaut Angelesis Halpan	



3. Right-click the selected trust, and then click **Edit Claim Issuance Policy**.

Relying Farty Trusts Actions		
Relying Party Trans Parking Name Facelik as opportunition Colombia (Parking) Mark (Hastalar Kee Colombia (Parking) Add Start Of Colombia (Parking) Add Start Of Colombia (Parking)	Derive memory Derive memory Part and the latter Annual Control Marg Microsoft Strategies and the support of the support o	

4. In the Edit Claim Issuance Policy dialog box, under Issuance Transform Rules click Add Rule to start the rule wizard.

The folk		specify the claims that	will be sent to the relying ;	party.
Order	Rule Name		Issued Claims	
				1
				4
Add F	Edit Rule	Remove Rule		

5. On the Select Rule Template page, under Claim rule template, select Send LDAP Attributes as Claims from the list, and then click Next.





6. On the **Configure Rule** page under **Claim rule name** type the display name for this rule, select the **Attribute Store** (Active Directory) and then select each LDAP attribute required by Censornet Archive, and map it to the outgoing claim type. Add the Claims with the same Outgoing Claim Type name corresponding to the LDAP Attributes as shown:

tribute	nplate: Send LDAP Attributes as Claims	
	Directory	~
lapping	g of LDAP attributes to outgoing claim types	S:
	LDAP Attribute (Select or type to add more)	Outgoing Claim Type (Select or type to add more)
	User-Principal-Name ~	userPrincipalName 🗸
	E-Mail-Addresses ~	mail 🗸 🗸
	Proxy-Addresses ~	proxyAddresses ~
	Sumame ~	Sumame 🗸 🗸
	Given-Name ~	givenName 🗸 🗸

View Rule Language...

OK Cancel

LDAP Attribute	Outgoing Claim Type
User-Principal-Name	userPrincipalName
E-Mail-Addresses	mail
Proxy-Addresses	proxyAddresses
Surname	Surname
Given-Name	GivenName

- 7. Click the **Finish** button.
- 8. In the **Edit Claim Rules** dialog box, click **OK** to save the rule.



Step 4: Set the option "EnableJWT" to true

Set the option "EnableJWT" to true on the Relying Party Trust you configured.

Execute the PowerShell Set-AdfsRelyingPartyTrust command. The template of this command is like this:

Set-AdfsRelyingPartyTrust -TargetName "<Relying Party Display Name>" -EnableJWT
\$true

Replace the *Relying Party Trust Name* with the display name of the Relying Party, that you specified in the **Step 2, point 5.**

Example:

Set-AdfsRelyingPartyTrust -TargetName "Censornet Archive" -EnableJWT \$true

Step 5: Grant permission to registered client app to access relying party

Run this command to explicitly grant clients permission to a resource

```
Grant-AdfsApplicationPermission -ClientRoleIdentifier "<ClientId>" -
ServerRoleIdentifier "<Relying Party Identifier>"
Where,
```

-ClientRoleIdentifier Client ID, that is set while adding the client. Refer to the **Step 1**.

-**ServerRoleIdentifier RP Identifier**. It should be the trust URL associated with Relying Party Trust as shown below



Example:

```
Grant-AdfsApplicationPermission -ClientRoleIdentifier
"71d3cf488b4bf413547e83410e047885f3148ec5bcd90913" -ServerRoleIdentifier
https://<your-adfs.fqdn>/adfs/services/trust
```



Censornet Side Settings

Create the OAuth connection for Microsoft ADFS provider type

 Login as admin user to your Censornet Archive environment, click on Adv. Configuration menu and then select SSO – OAuth.

censornet.		Censornet Email Archive	
Monitor & Reports	^	Summary —	
System Monitor		NTP on cryoserverntp: Thu Apr 28 09:40:06 UTC 2022 Import Size=0 Respool Size=0 Error Size=0	
Reports		Current Hour: 0 (Imported: 0) Last Hour: 0 (Imported: 0)	
System Alert History		View Full Monitor Page	
Admin Audit History			
Basic Configuration	~		
Adv. Configuration	~		
Solr Configuration	~		
Management	~		
Storage Management	~		
Email Management	~		
Mailbox Reader	~		

2. <u>Click the **Create New Connection** button to create a new OAuth</u> Connection.

censornet.				Censornet Email Archive
Monitor & Reports	~	OAuth Connection Settings	-	
Basic Configuration	~	Existing Connections	Connection Detail	s
Adv. Configuration	^	4	Provider Type:	
			Redirect URIs:	
SSO - Single Sign On			Connection Name:	
SSO - OAuth			Client Id:	
Zookeeper Configuration			Client Secret:	
			Authorization URL	
NTP Configuration		Create New Connection	Access Token URL	
Web Certificate			User Detail URL:	
Adv Company Config				



3. Under the Create New Connection, select **Microsoft ADFS** from the provider type drop down and enter the following details

Existing Connections		Connection Details	
		Provider Type:	Microsoft ADFS
		Redirect URIs:	https://archive.clouduss.com/uss/microsoftoauth.do
			https://archive.clouduss.com/ussv9/microsoftoauth.do
		Connection Name:	Microsoft ADFS
		Client Id:	Your Client ID
	-	NOTE:	Authorization URL, Access Token URL and User Detail URL are mandatory.
Save Connection		Authorization URL:	https:// <adfs-server-hostname>/adfs/oauth2/authorize</adfs-server-hostname>
Care Connection		Access Token URL:	https:// <adfs-server-hostname>/adfs/oauth2/token</adfs-server-hostname>
Cancel		User Detail URL:	https:// <your-adfs.fqdn>/adfs/services/trust</your-adfs.fqdn>

where,

- **Connection Name:** A relevant connection name that will also get displayed with label of OAuth login button on the login page.

- **Client Id:** Identity of the registered OAuth Client App. This should be the same "clientId" string as specified under step 1 of ADFS side settings.

- Authorization URL: URL where frontend will redirect the user for

authorization, It is of the form "https://<adfs-server-

hostname>/adfs/oauth2/authorize"

Access Token URL: URL for getting access token against authorization code. It is of the form "https://<adfs-server-hostname>/adfs/oauth2/token"
 User Detail URL: Specify the Relying party trust identifier. It should be the same URL as first provided in Step 2: Create a Relying Party Trust, part 7 (Relying party WS-Federation Passive protocol URL) and later as the

ServerRoleIdentifier value specified under Step 5 of ADFS side settings.

- 4. Now save the connection and you are done!
- 5. The login page should now display a new button with the label "Login with <Connection Name>", to allow user login via **Microsoft ADFS** as shown

censornet.
Username:
l Password:
Login
Quick Connect (\$\$O)
Login With Censornet Azure AD
Login With Microsoft ADFS
Remember Me

Access Control

For security, URL links pointing to Censornet's Archive will only be allowed for registered domains. The domains that are unexpected, the system will respond with an "Access barred" error message:

is barred. Please ask a Censornet administrator to add this referrer to the list of valid names, if the link appears to be genuine.

censornet.

To fix this, you must contact **Censornet's Support Team** and ask them to add your OAuth service as a valid "referrer" to Censornet's Archive solutions.

Local User Accounts for OAuth

Access from host

When a user accesses Censornet's Archive for the first time using OAuth, it will create a Local User Account entry within Censornet's Archive solution.

To review the accounts created by OAuth logins, visit the **Basic Configuration > Local User Accounts**. The users accounts will show the user's email address as their username. They will be set to "external authorization" (meaning that their password is not held in Censornet's Archive solution so must be validated with some external system).



Censornet Archiving OAuth Configuration

Modify registration settings for an OAuth client registered with ADFS

The **Set-AdfsClient** cmdlet modifies registration settings for an OAuth 2.0 client registered with Active Directory Federation Services (AD FS). Use this cmdlet to modify the settings, including the client identifier, redirection URI, name, or description of the OAuth 2.0 client. You can also use this cmdlet to register additional redirection URIs for the OAuth 2.0 client.

Set-AdfsClient -TargetName "<ClientApp>" -RedirectUri @("https://<archive.clouduss.com>/uss/microsoftoauth.do", "https://<archive.uk.clouduss.com>/uss/microsoftoauth.do")

Example:

```
Set-AdfsClient -TargetName "Client App" -RedirectUri @("
https://archive.clouduss.com/uss/microsoftoauth.do",
"https://archive.uk.clouduss.com/uss/microsoftoauth.do")
```

Check the registration settings for an OAuth client registered with ADFS

Use the following cmdlet template

Get-AdfsClient -name "<ClientApp>"

Example: Get-AdfsClient -name "CensornetADFS"

Remove OAuth client registered with ADFS

The Revoke-AdfsApplicationPermission cmdlet revokes permission for an application in Active Directory Federation Services (AD FS).

Use the following cmdlet template

Revoke-AdfsApplicationPermission -TargetClientRoleIdentifier "clientID " -TargetServerRoleIdentifier
"https://<your-adfs.fqdn>/adfs/services/trust"

Example:

Revoke-AdfsApplicationPermission -TargetClientRoleIdentifier "2960ba77-37fc-4c91-a8dd-f6e5093b1ea2" -TargetServerRoleIdentifier "https://ADFS.Censornet.com/adfs/services/trust/censornetarchive"

References:

<u>https://docs.microsoft.com/en-us/windows-server/identity/ad-fs/operations/create-a-relying-party-trust#to-</u> <u>create-a-claims-aware-relying-party-trust-using-federation-metadata</u>