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Censornet Archive – OAuth with ADFS Configuration Guide



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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.

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 A state A state	<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><text><text><text><text></text></text></text></text></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>	Act Maying Park, Trans. Act Maying Park, Trans. Act Maying Park, Trans. Act Advised Stars. Act Advised	

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 Choose 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	×
Specify Display Name	•	
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 Sourch Data Source Sourch Data Source Configure URL Configure URL Configure URL Configure Ventiles Oncose 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 to at. 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**.

🗌 Add Relying Party Trust \	Wizard X
Configure URL	
Steps Velcome Select Data Source Specify Display Name Configure Certificate Configure URL Configure URL Configure URL Ready to Add Trust Finish	AD FS supports the WS-Trust, WS-Federation and SAML 2.0 WebSSO protocols for relying parties. If 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. Image: 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 URLs using the SFR fight/adfs/services/trust] Example: https://s.contess.com/adfs/s/ Image: Support for the SAML 2.0 WebSSO protocol The Symparty 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 Example: https://www.contoso.com/adfs/s/
	< Previous Next > Cancel



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.	1
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	ir 🗌
Configure LIRI	Permit everyone and require MFA from extranet access	Grant access to the intranet users a	n
conigue one	Permit everyone and require MFA from unauthenticated devices	Grant access to everyone and requ	ir 👘
Configure Identifiers	Permit everyone and require MFA, allow automatic device registr	Grant access to everyone and requi	je –
Choose Access Control	Permit everyone for intranet access	Grant access to the intranet users.	
Policy	Parmit manific on an	Grant access to users of one or mor	• 1
Ready to Add Trust		,	_
Databa	Policy		
	☐ I do not want to configure access control policies at this time. No	user will be permitted 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.

翰 Add Relying Party Trust 1	Wizard	×
Ready to Add Trust		
Steps Select Data Source Sector Data Source Specify Daplay Name Corfigure Certificate Corfigure URL Corfigure VIRL Configure VIRL Conf	The relying party hust has been configured. Review the following settings, and then click. Next to add the relying party hust to the AD PS configuration disabase. Monitoring Identifies Encoyston Signature Accepted Claims Organization Endpoints Not 4 Specify the monitoring settings for this mying party toutt. Relying party is federation metadata URL: Monitor relying party Accented claims Organization for the mying party party Accented claims Organization for the mying party Accented claims Organization for the mying party Accented claims Organization metadata data was last checked on: C never > This relying party was last updated from federation metadata on: C never >	
	c Previous Next > Cancel	

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

输 Add Relying Party Trust Wi	izard	×
Finish		
Steps Welcome © Select Data Source © Specify Display Name © Configure Ontflicate © Configure URL © Configure Identifiem © Thoose 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	Actices
 Gross Gross Gross Canno (exp transmission) Canno (horizon) Canno (horizon) Application Groups 	Overview A case to be services provides any in signs on (350) access for class on operations of the class of	Add Bring Shang, Yung, Y



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

AD PS Relying Party Trusts AD PS Relying Party Trusts AD PS Depily Name For edites, copeener.com	ig Party Trusts					Ac	tions	
	leplay Name	Frabled	Identifier		Access Control Policy	R	elying Perty Tousts	
	s-adfs-a.cryoserver.com	Yes	http://fcs-adfs-a.cryoser	ver.com/adfs/services/trust	Permit everyone		Add Relying Party Trust	
aims Provider Trusts	Auth App RP	Yes	https://fcs-edfs-e.cryose	rver.com/adfs/services/trust	Pernit everyone		View	
oplication Groups	Auth App RiPaty	No	https://fcs.edfs-e.cryose	rver.com/adis/is/first	Permit everyone		New Wasdow from Line	
	tariaa Metacala App Ino Client RP	Yes	https://tcs/edis/e.cryose	rver.com/adis/services/vices/ma	Permit everyone		new minister monitriere	
te	ut .	Yes	https://fea.adfa.a.oyoso	rver.com/adfs/s/test	Permit everyone	1	Defresh	
ADES Tour RP Core Clarat RPady	DFS Test HP	Yes	https://lest-adfs-server.org	con fa	Pernit everyone	2	Help	
	no Client RPaty Ueda	le from Federatio	on Metadata	da/vanicia/tual	Pamil avayone	0	ryo Client RParty	
	EditA	cons Control Pr	olicy				Update from Federation Meta	deta.
	Edit C	laim bouance Pr	olicy				Edit Access Control Policy	
	Diseb	le					Edit Claim Issuance Policy	
	Prope	rties					Disable	
	Delete						Properties	
							Delete	
	Help						Dente	
							Help	

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

suance The folk	Transform Rules	pecify the claims that w	ill be sent to the relying p	arty.
Order	Rule Name		Issued Claims	
				Ŷ
				4
Add F	Edit Rule	. Remove Rule		
			OK Cancel	Annly

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:

You can configure this late to send the values of LDAP attributes as claims. Select an attribute store from which to extract LDAP attributes. Specify how the attributes will map to the outgoing claim types that will be issued from the rule.				
Claim rule name:				
OAuth App Claim Rule				
Rule template: Send LDAP Attributes as Claims				
Attribute store:				
Active Directory	~			
Mapping of LDAP attributes to outgoing claim type	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 ~	r 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
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.				
Monitor & Reports	~	OAuth Connection Settings	-	
Basic Configuration	~	Existing Connections	Connection Details	
Adv. Configuration	~	A	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

OAuth Connection Settings				
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	
	Ŧ	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>	
Cancel		Access Token URL:	https:// <adfs-server-hostname>/adfs/oauth2/token</adfs-server-hostname>	
		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:
r Password:
Login
Quick Connect (\$\$0)
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>