

Configure Single Sign-on (SSO) with Microsoft AD FS

An overview of how to set up Stack Overflow for Teams Enterprise SAML authentication with Microsoft Active Directory Federation Service (AD FS).



ADMIN PRIVILEGES REQUIRED

This documentation is for **Stack Overflow for Teams Enterprise**. Free, Basic, and Business users can access their documentation here. Find your plan.

Overview

This article is an overview of how to set up Stack Overflow for Teams Enterprise (SOE) for single sign-on authentication with Microsoft Active Directory Federation Service (AD FS). This document covers AD FS 4.0 on Windows Server 2016. Previous versions will look and behave differently.

NOTE: This article is not a comprehensive guide to AD FS, but rather a quick overview.

THIS ARTICLE APPLIES TO STACK OVERFLOW FOR TEAMS ENTERPRISE ONLY.

Other Stack Overflow for Teams users should read this article instead. Find your plan.

Create a Relying Party Trust

Manual setup

Before configuring SOE, you must manually set up the relying party trust.

1. In the AD FS folder tree, right-click on Relying Party Trusts. Click Add Relying Party Trust.



- 2. Choose Enter data about the relying party manually.
- 3. Enter a name of your choice.
- 4. Optional: Specify a certificate to encrypt the SAML assertion. This is a public key for which the SOE server has the private key.
- 5. Check Enable support for the SAML 2.0 WebSSO protocol and enter the full SAML 2.0 post URL for your SOE instance (https://[your_site]/auth/saml2/post) into the Relying party SAML 2.0 SSO service URL.

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.
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.
Relying party WS-Federation Passive protocol URL:
Example: https://fs.contoso.com/adfs/ls/
Enable support for the SAML 2.0 WebSSO protocol
The SAML 2.0 single-sign-on (SSO) service URL supports Web-browser-based claims providers using the SAML 2.0 WebSSO protocol.
Relying party <u>S</u> AML 2.0 SSO service URL:
https://dev.soe.devdomains.org/auth/saml2/post
Example: https://www.contoso.com/adfs/ls/

- 6. Set an **Identifier**. You can make this anything you like. You'll enter this value as **Issuer** on your SOE authentication settings page.
- 7. Choose your desired Access Control Policy.
- 8. To add an optional certificate, right-click on the new Relying Party Trust. Select **Properties**, then the **Signature** tab. Click **Add** to add a certificate. This allows SOE to sign authentication requests and AD FS to validate the signature.



Additional configuration

Some settings for the Relying Party Trust cannot be configured through the GUI, but require PowerShell. Please refer to the Set-AD FSRelyingPartyTrust cmdlet for a full list of settings.

Here is an example Set-AD FSRelyingPartyTrust cmdlet command:

```
Set-AD FSRelyingPartyTrust -TargetName "SOE" -SignedSamlRequestsRequired $true -SignatureAlgorithm "http
```

Some settings that you might want to check:

- SignedSamlRequestsRequired Enforces the need for AuthnRequests to be signed.
- SignatureAlgorithm Configures SHA-256 instead of the default SHA-1.
- SamlResponseSignature Sets which part of the XML Response are signed.
- **SigningCertificateRevocationCheck** Configures if and how the signing certificate is checked for validity (used when verifying signed AuthnRequests).
- **EncryptionCertificateRevocationCheck** Configures if and how the encrypting certificate is checked for validity (used when encrypting the SAML Response).

Configure the claim issuance policy

You need to configure the claims that are being sent in the SAML response. SOE requires a user identifier, display name, and email address.

Using rule language

The following command configures FS AD to send the displayName, mail, and objectSID attributes.

```
c:[Type == "http://schemas.microsoft.com/ws/2008/06/identity/claims/windowsaccountname", Issuer == "AD AI
=> issue(store = "Active Directory", types = ("http://schemas.xmlsoap.org/ws/2005/05/identity/claims/nar
```

Manual setup

1. Right-click your new Relying Party Trust and select Edit Claim Issuance Policy.



2. Set Claim rule template to Send LDAP Attributes as Claims.

<u>C</u> laim rule template:	
Send LDAP Attributes as Claims	\sim

3. Configure the required attributes. Note that SOE does not currently use **Name ID**, but you should set it the same as **User Identifier** in case this changes in the future.

<u>C</u> laim ru	le name:								
Enterpr	ise Claims								
Rule ter	mplate: Send LDAP Attributes as Claims								
Attribute	e <u>s</u> tore:								
Active	Directory	~							
<u>M</u> appin	Mapping of LDAP attributes to outgoing claim types:								
	LDAP Attribute (Select or type to add more)	Outgoing Claim Type (Select or type to add more)							
•	Display-Name 🗸 🗸	http://schemas.microsoft.com/identity/claims/displa	\sim						
	E-Mail-Addresses ~	E-Mail Address	\sim						
	objectSID ~	Name ID	\sim						
	objectSID ~	http://schemas.microsoft.com/identity/claims/objec	\sim						
	~		\sim						

Troubleshooting AD FS

AD FS has an application-specific event log that is informative and helpful when troubleshooting problems. To access the AD FS log, open your local Event Viewer and expand the **Applications and Services Logs** folder. Expand the **AD FS** folder and click **Admin**.

Event Viewer (Local)	Admin	Number of events: 883							
> 📑 Custom Views	Laud		Data and Time		Courses	Event ID	Task Catagory		
> Kindows Logs	Level		Date and Time		Source	Event ID	Task Category		
Applications and Services Lo	Error		10/4/2017 3:35:07 PM		AD FS	320	None		
😭 Active Directory Web Ser	Error		10/4/2017 3:33:51 PM		AD FS	364	None		
🗸 🎬 AD FS	Error		10/4/2017 3:33:51 PM		AD FS	320	None		
Admin	Error		10/4/2017 12:47:28 PM		AD FS	364	None		
> Device Registration Service	Error		10/4/2017 12:47:28 PM		AD FS	261	None		
DFS Replication	(i) Inform	nation	10/4/2017 12:36:19 PM		AD FS	388	None		
Directory Service	لم								
DNS Server	DNS Server Event 320, AD FS								
Hardware Events	General	Details							
Internet Explorer		. Details							
Key Management Service	nice								
> Microsoft	Mescape issues sont of the SAWL message signature rated.								
Windows PowerShell	hell Exception details:								
Subscriptions	Subscriptions MSIS7086: The relying party trust 'spn:fc6fe0ba-b140-4663-8228-2459799d412b' indicates that authentication requests sent by this relyi								
	signed but no signature is present.								
	This request failed.								
	User Action Verify that the message issuer configuration in the AD FS configuration database is up to date. Configure the signing certificate for the specified issuer. Verify that the issuer's certificate is up to date.								
	Log N	a <u>m</u> e: AD FS/Admi	n						
	Source	e: AD FS	Logg	e <u>d</u> : 10/4/2017	3:33:51 PM				