Creating and configuring an ADFS IDP server for use with EFT SAML

THE INFORMATION IN THIS ARTICLE APPLIES TO:

- EFT v7.3.3 and later

NOTE: This article provides guidelines for using a third-party tool with EFT. This article is not meant as formal support for that tool, but only as an example of setup options. Contact the third-party seller's support for detailed information about their product. Globalscape is not responsible for any configuration errors involving the third-party tool.

Overview

This document describes the steps involved in creating an ADFS IDP server and configuring it for testing. ADFS is a service that can be installed on a Windows Server system via Server Manager.

See https://msdn.microsoft.com/en-us/library/azure/dn528857.aspx

ADFS Prerequisites

- Windows 2012 Server with AD and Certificate Services installed.

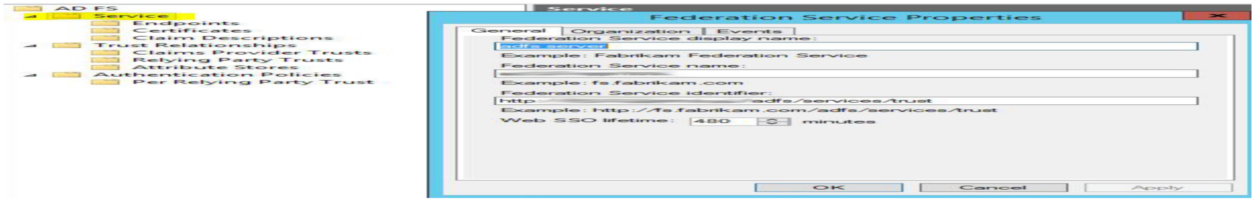
ADFS installation

- Install ADFS

ADFS Configuration

Define your Federation Service Properties

- In the example image the AD Server's system name is ad and resides on the domain QATappin.local



Federation Service display name: adfs server

Example: Fabrikam Federation Service

Federation Service name: [redacted]

Example: fs.fabrikam.com

Federation Service identifier: http[redacted]adfs/services/trust

Example: http://fs.fabrikam.com/adfs/services/trust

Web SSO lifetime: 480 minutes

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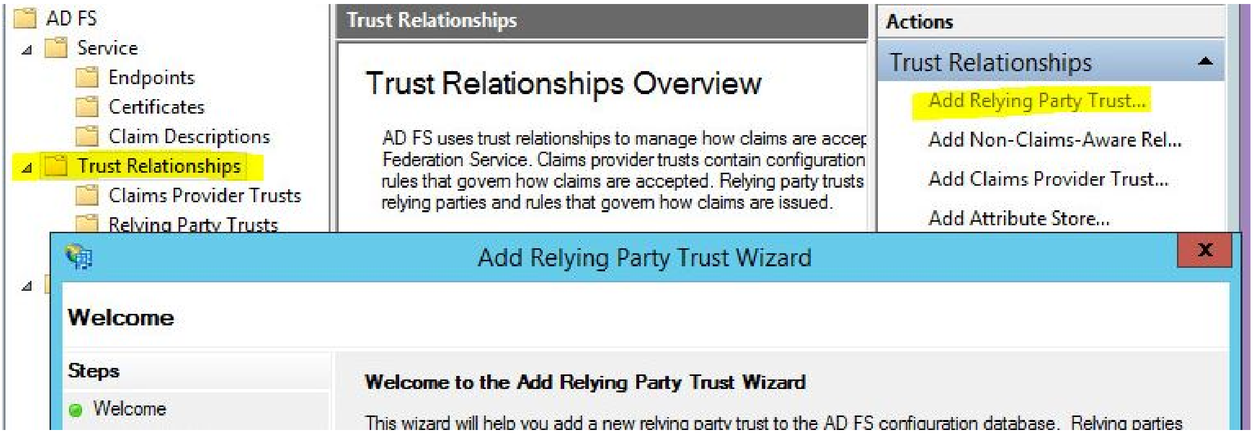
Define a Relaying Party Trust

- A relay party trust is basically where you tell the ADFS IDP server about your EFT.
- Select the option "Add relying party trust" to launch the configuration wizard.



Trust Relationships Overview

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

Add Relying Party Trust Wizard

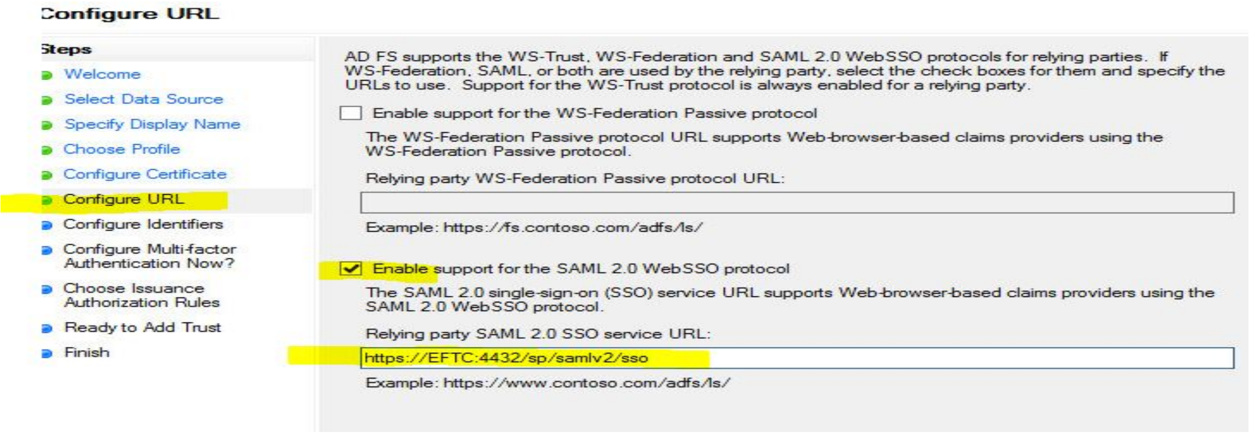
Welcome

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

Select the following options

- In the wizard, select the "Enter data about the relying party manually" option.
- On the **Choose Profile** add the AD FS Profile option (SAML 2.0 protocol).
- On the **Configure certificate** page, get your SSL Certificate specified your EFT Server's HTTPS SSL settings (you can grab the CRT file from programdata\globalscape\...and copy to your ADFS Sever. You will have to view all files when browsing to locate the certificate. Ignore the warning if you created your SSL Cert with less than 2048 bits.
- On the **Configure URL** page select the Enable support for the SAML 2.0 WebSSO protocol option.



Configure 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.

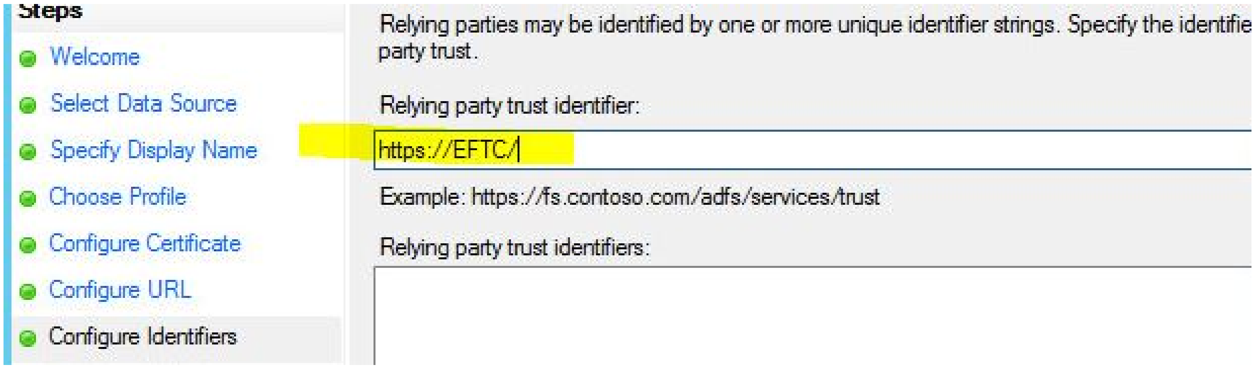
Relying party SAML 2.0 SSO service URL:

https://EFTC:4432/sp/samlv2/sso

Example: https://www.contoso.com/adfs/ls/

- Note below we specified port 4432, the PORT that the EFT Server's HTTPS protocol is listening on.

- On the **Configure Identifiers** page enter your EFT Server's Entity ID. This is the Server Provider Entity ID field from your EFT Server's WEB SSO SAML configuration.



Relying parties may be identified by one or more unique identifier strings. Specify the identifie party trust.

Relying party trust identifier:

https://EFTC/

Example: https://fs.contoso.com/adfs/services/trust

Relying party trust identifiers:

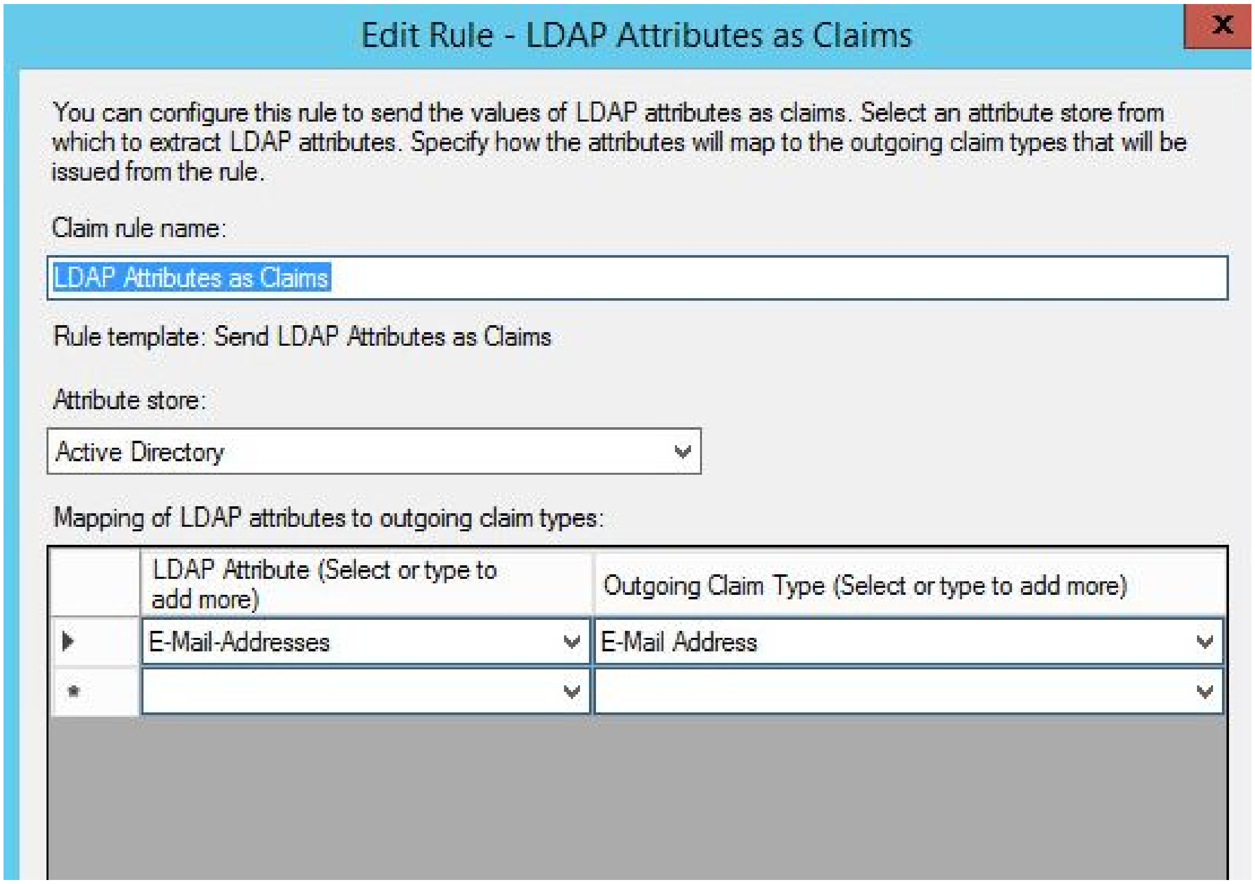
- On the **Configure Multi-factor authentication now?** option accept the default "I do not want..." option.
- On the **Choose Issuance Authorization Rules** option accept the default "permit.." option.
- Finish the Wizard, You have now defined EFT as an authorized Service Provider to the ADFS IDP backend.

Define Claim Rules

- Now that we've told our IDP server about our EFT Server (our SP) we need to tell our IDP what values we should expect from EFT to use to validate against our LDAP IDP server. Claim rules define these incoming parameters.
- Claim rules can also be used to transform your incoming authentication criteria into a format recognized by your backed authorization service. For example, EFT may send a request to authenticate user Parker@qatappin.local to our IDP server but our LDAP server will only authenticate based on just the user name "Parker" so we would create a claim rule to expect from our SP (EFT) a nameID in an email format and to transform it to just the username, we would then send the transformed username to our LDAP (or whatever backend you are authenticating against) and validate the user.

- Open up the Claim Rules editor for the EFT Relay Party you previously defined.

- Press the Edit Claims Rule link to launch the create Claim Rule Wizard. Add a an LDAP as Attributes Claim rule as shown below.
- We will configure our EFT SSO settings to use a NameID of type Email Address, here we are telling our ADFS IDP server to expect an email address and to use it to query the LDAP server to validate the user.



Edit Rule - LDAP Attributes as Claims

You can configure this rule 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:

LDAP Attributes as Claims

Rule template: Send LDAP Attributes as Claims

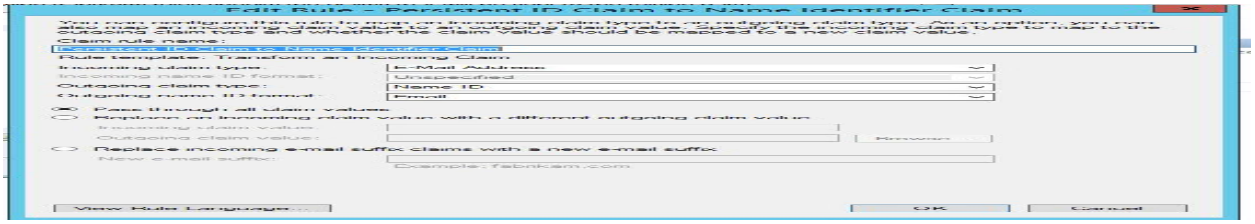
Attribute store:

Active Directory

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)
▶	E-Mail-Addresses	E-Mail Address
*		

- Next we are going to add another Claim rule, this time select the Claim Rule Template *Transform an Incoming Claim*. This will transfer our Email Address claim to associate Email with our NameID.



Edit Rule - Persistent ID Claim to Name Identifier Claim

You can configure this rule to map an incoming claim type to an outgoing claim type. As an option, you can also map an incoming claim value to an outgoing claim value. Specify the incoming claim type to map to the outgoing claim type and whether the claim value should be mapped to a new claim value.

Claim rule name:

Persistent ID Claim to Name Identifier Claim

Rule template: Transform an Incoming Claim

Incoming claim type: E-Mail Address

Incoming name ID format: Unspecified

Outgoing claim type: Name ID

Outgoing name ID format: Email

● Pass through all claim values

○ Replace an incoming claim value with a different outgoing claim value

Incoming claim value:

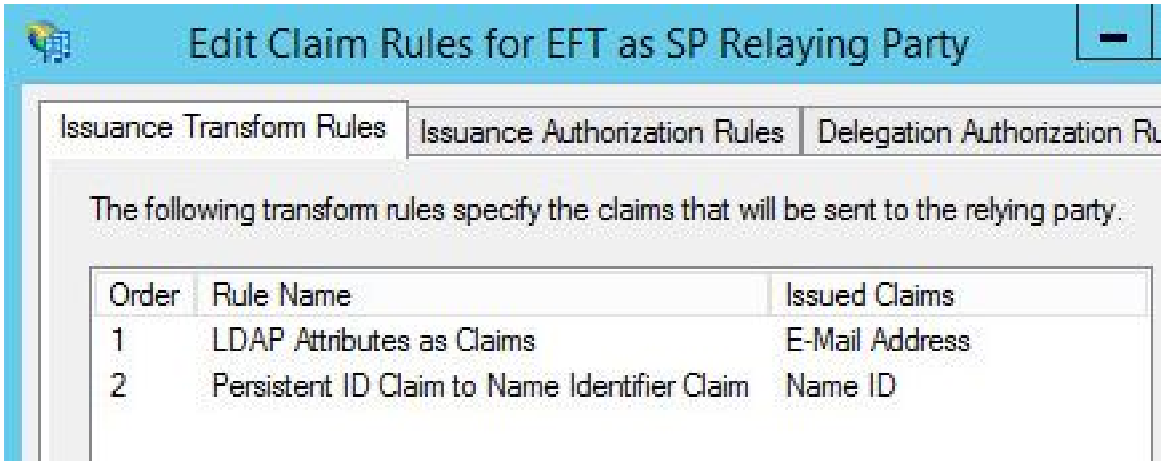
Outgoing claim value:

○ Replace incoming e-mail suffix claims with a new e-mail suffix

New e-mail suffix:

Example: fabrikam.com

- The Claim Rule order is important, make sure that rule 1 is the LDAP attributes as Claims exists prior to the Persistent ID Claim rule.



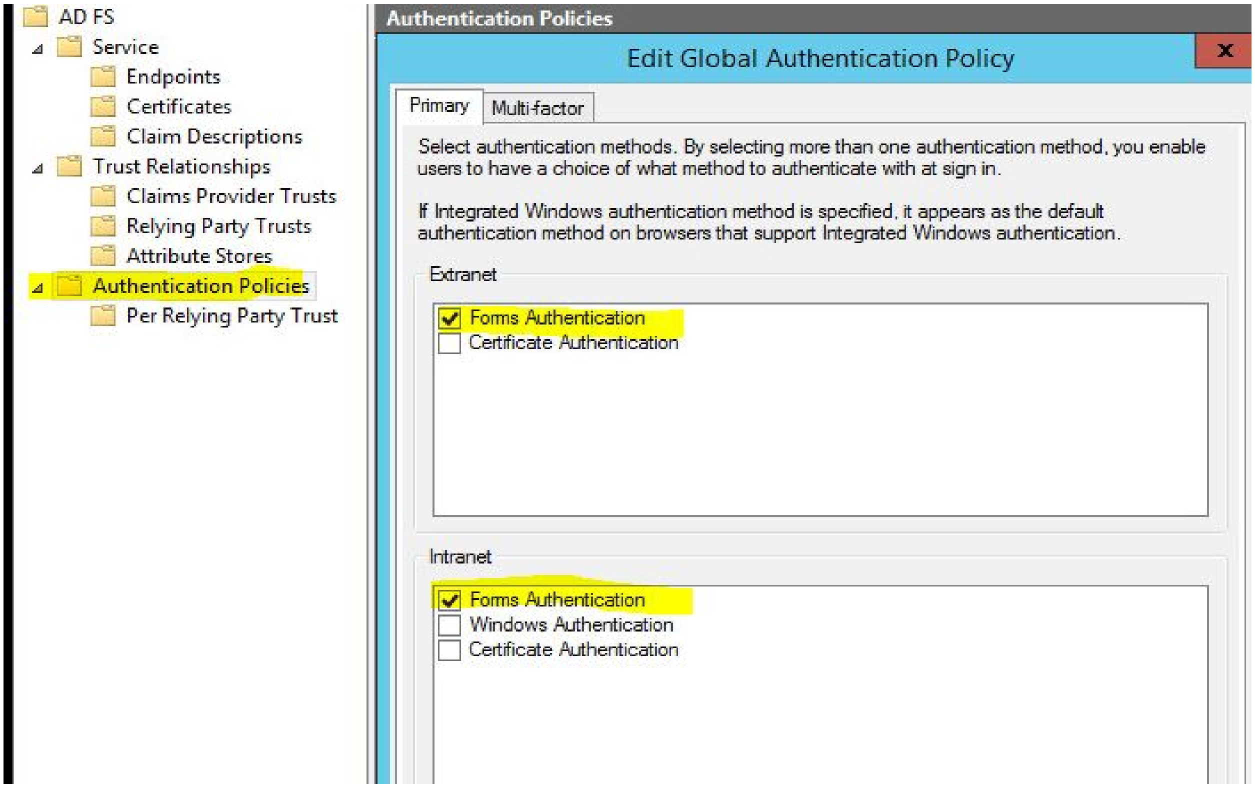
Edit Claim Rules for EFT as SP Relaying Party

The following transform rules specify the claims that will be sent to the relying party.

Order	Rule Name	Issued Claims
1	LDAP Attributes as Claims	E-Mail Address
2	Persistent ID Claim to Name Identifier Claim	Name ID

Define Authentication Policies

- This is where we define how we are going to permit users to log into the IDP Server from the WTC SSO login button. Here we are going to permit login from a regular WEB Page rather than from, for example a windows authentication popup box.



Select authentication methods. By selecting more than one authentication method, you enable users to have a choice of what method to authenticate with at sign in.

If Integrated Windows authentication method is specified, it appears as the default authentication method on browsers that support Integrated Windows authentication.

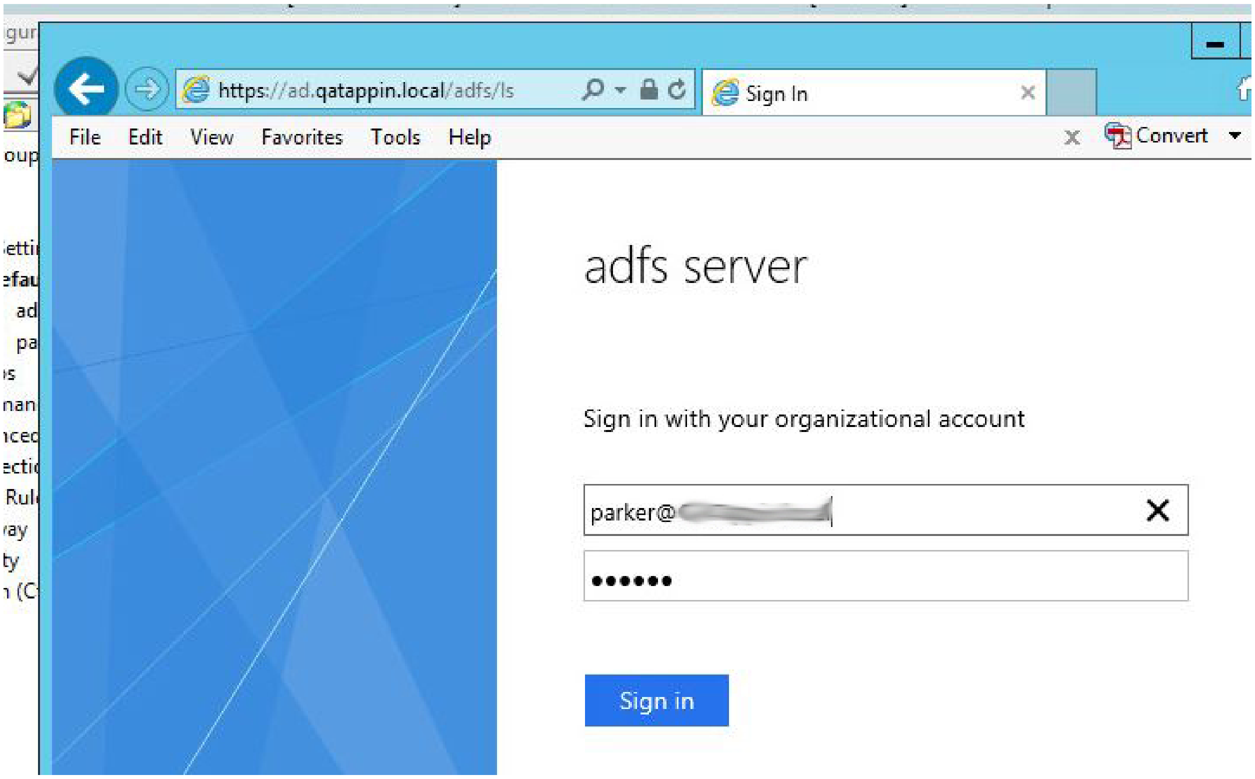
Extranet

☑ Forms Authentication
□ Certificate Authentication

Intranet

☑ Forms Authentication
□ Windows Authentication
□ Certificate Authentication

- With Forms authentication enabled when users log into WTC and press the SSO Login button they will be directed to the ADFS Server's Forms based login page, as shown below.



adfs server

Sign in with your organizational account

parker@[redacted]

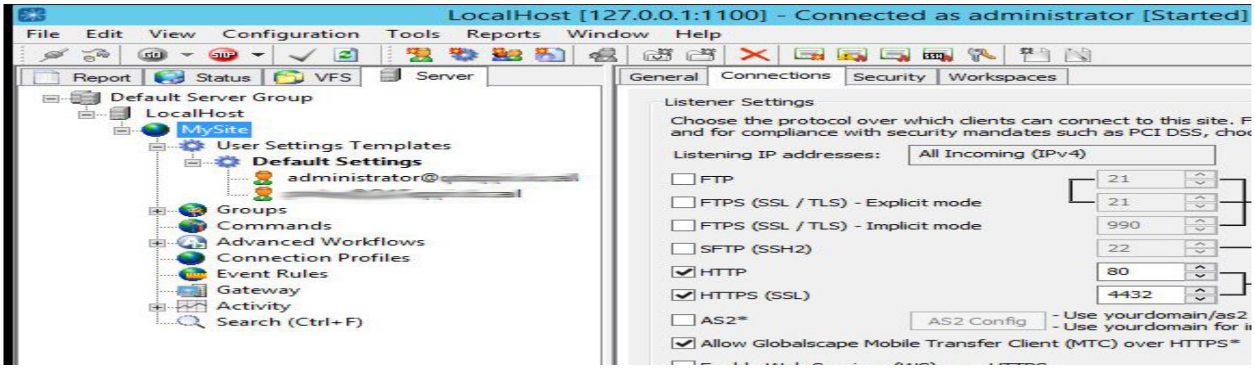
••••••

Sign in

Configuring EFT's WEB SSO

Create your EFT Site

- Create a GS Auth Site with HTTPS enabled, here we are using port 4432
- Create a user whose login name is an email address that exists on your AD Server.



LocalHost [127.0.0.1:1100] - Connected as administrator [Started]

Default Server Group
LocalHost
MySite
User Settings Templates
Default Settings
administrator@[redacted]
[redacted]
Groups
Commands
Advanced Workflows
Connection Profiles
Event Rules
Gateway
Activity
Search (Ctrl+F)

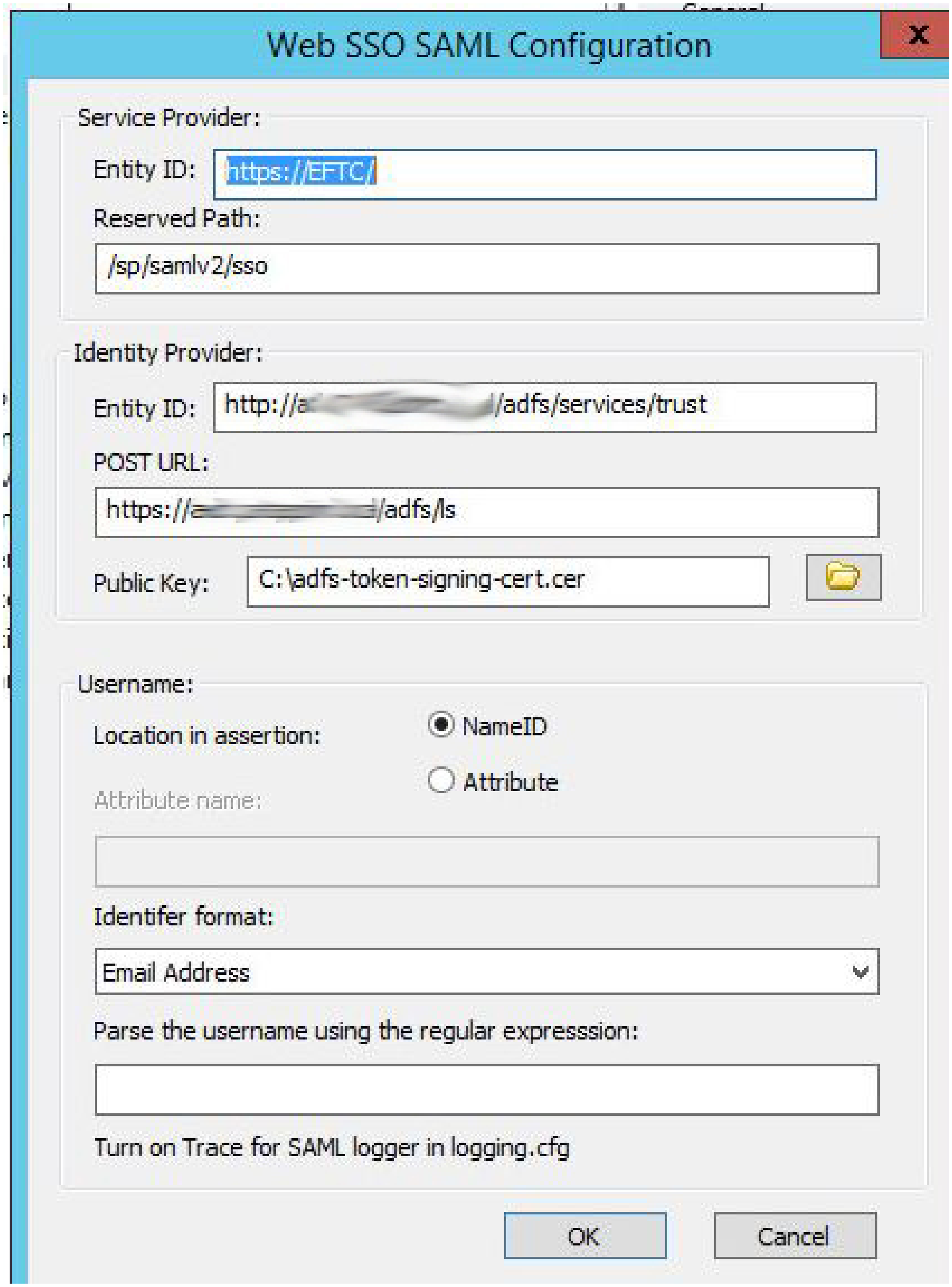
Listener Settings

Choose the protocol over which clients can connect to this site. F
and for compliance with security mandates such as PCI DSS, choo

Listening IP addresses: All Incoming (IPv4)

□ FTP 21
□ FTPS (SSL / TLS) - Explicit mode 21
□ FTPS (SSL / TLS) - Implicit mode 990
□ SFTP (SSH2) 22
☑ HTTP 80
☑ HTTPS (SSL) 4432
□ AS2* AS2 Config - Use yourdomain/as2
- Use yourdomain for i
☑ Allow Globalscape Mobile Transfer Client (MTC) over HTTPS*

Configure EFT's SSO Settings



Web SSO SAML Configuration

Service Provider:

Entity ID: https://EFTC/

Reserved Path: /sp/samlv2/sso

Identity Provider:

Entity ID: http://a[redacted]/adfs/services/trust

POST URL: https://a[redacted]/adfs/ls

Public Key: C:\adfs-token-signing-cert.cer

Username:

Location in assertion: ● NameID ○ Attribute

Attribute name:

Identifer format: Email Address

Parse the username using the regular expresssion:

Turn on Trace for SAML logger in logging.cfg

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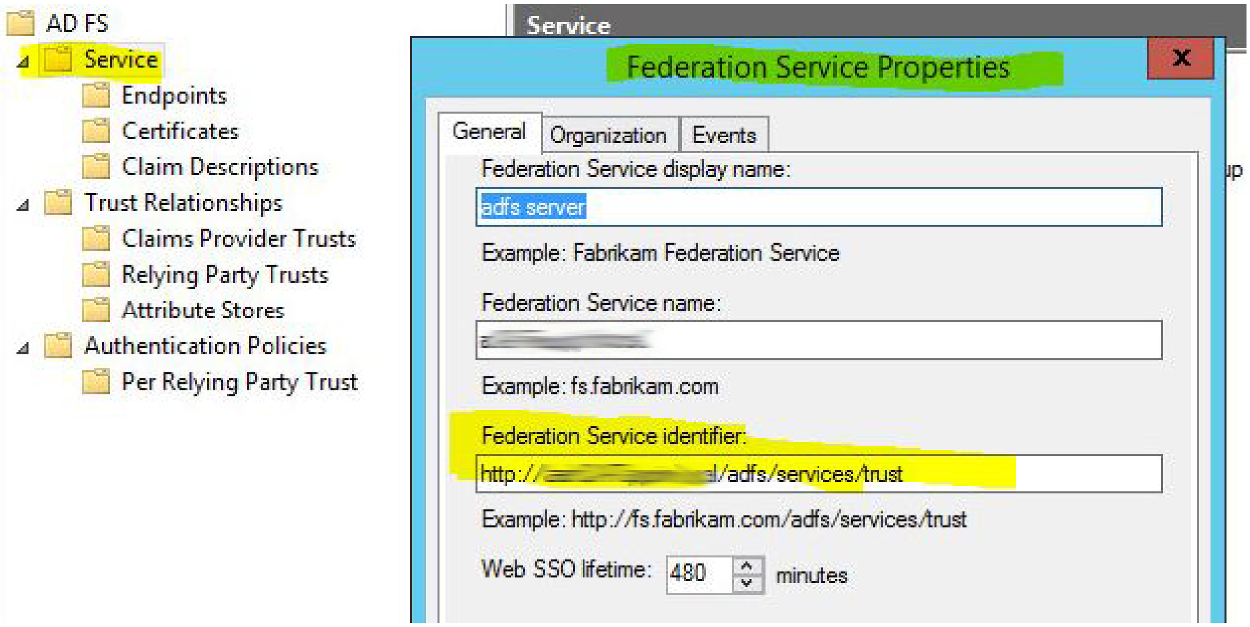
Configuration Values

- *Entity ID*: Your EFT Server's URL make sure that whatever you use resolves to a valid IP address (modify your hosts file if needed and add your EFT system to the same domain as your ADFS Server).
- *Reserved Path*: Set by Default by EFT.
- *Identity Provider*: Your IDP's identifier (as depicted below):



Federation Service display name: adfs server

Example: Fabrikam Federation Service

Federation Service name: [redacted]

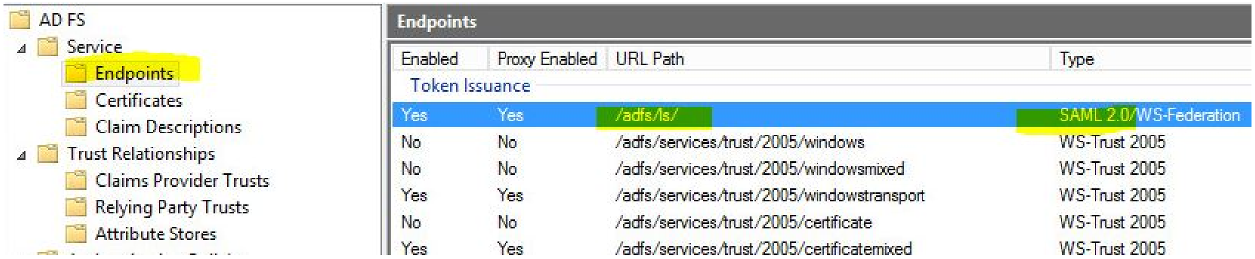
Example: fs.fabrikam.com

Federation Service identifier: http://[redacted]/adfs/services/trust

Example: http://fs.fabrikam.com/adfs/services/trust

Web SSO lifetime: 480 minutes

- *POST URL*: On your ADFS Server go to Endpoints and locate the endpoint URL path for the SAML 2.0 specification



Enabled	Proxy Enabled	URL Path	Type
Token Issuance			
Yes	Yes	/adfs/ls/	SAML 2.0/WS-Federation
No	No	/adfs/services/trust/2005/windows	WS-Trust 2005
No	No	/adfs/services/trust/2005/windowsmixed	WS-Trust 2005
Yes	Yes	/adfs/services/trust/2005/windowstransport	WS-Trust 2005
No	No	/adfs/services/trust/2005/certificate	WS-Trust 2005
Yes	Yes	/adfs/services/trust/2005/certificatemixed	WS-Trust 2005

- *Public Key*: On your ADFS Server export the server's Token-signing certificate and copy it to your EFT Server. Reference it in your Public Key SSO configuration field.

- *User Name*: The User Name field is the value you send to your IDP server to validate that the user is authentic. In this example we are going to configure our ADFS Server to expect the User Name ID field to come in in the format of an Email Address.

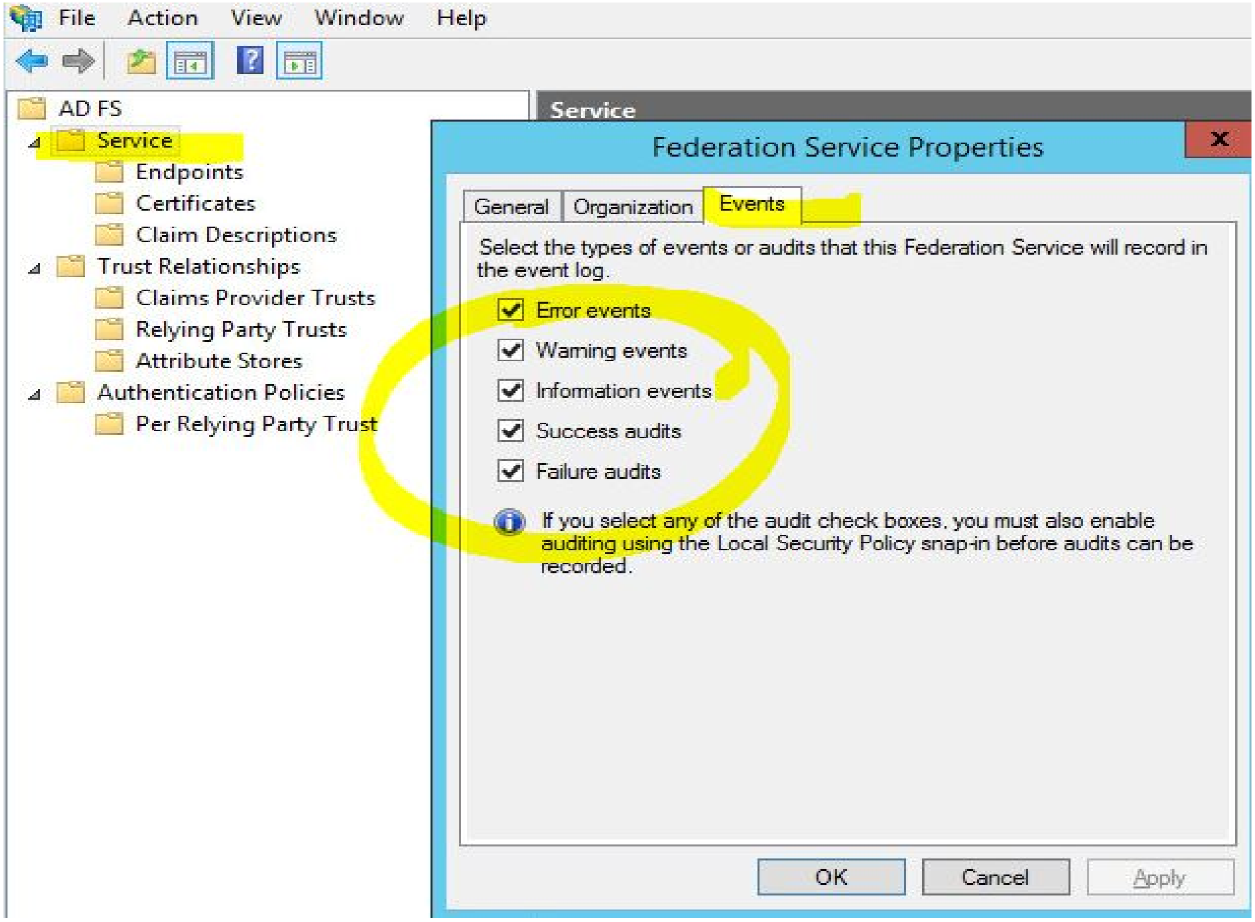
Log in to WTC Via SSO

- now launch WTC And and press the SSO Button. You should be redirected to the ADFS IDP page.
- Log in, you should be redirected to the user's WTC homepage.

Troubleshooting TIPS

- For this example test that uses EFT's SSO Configuration defined to use Email Addresses your AD Users need to have Email addresses defined for them.

Turn on ADFS logging



Select the types of events or audits that this Federation Service will record in the event log.

☑ Error events

☑ Warning events

☑ Information events

☑ Success audits

☑ Failure audits

If you select any of the audit check boxes, you must also enable auditing using the Local Security Policy snap-in before audits can be recorded.

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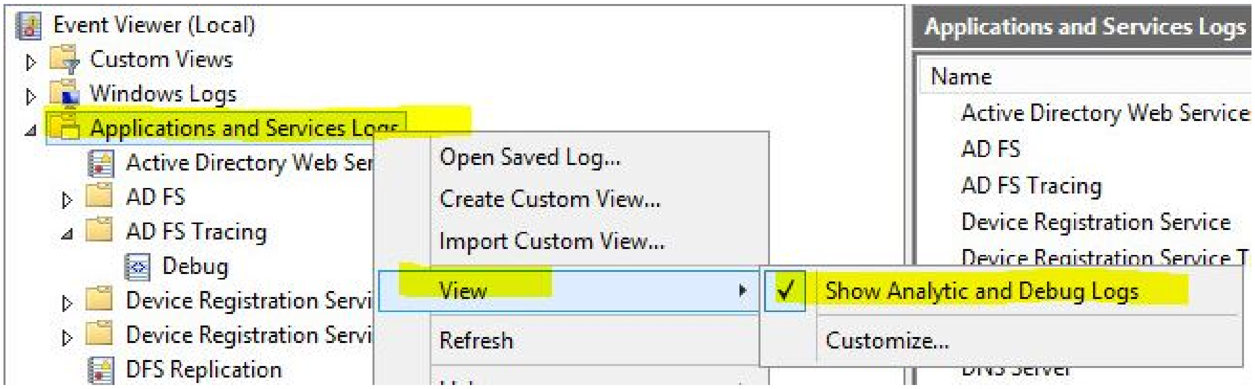
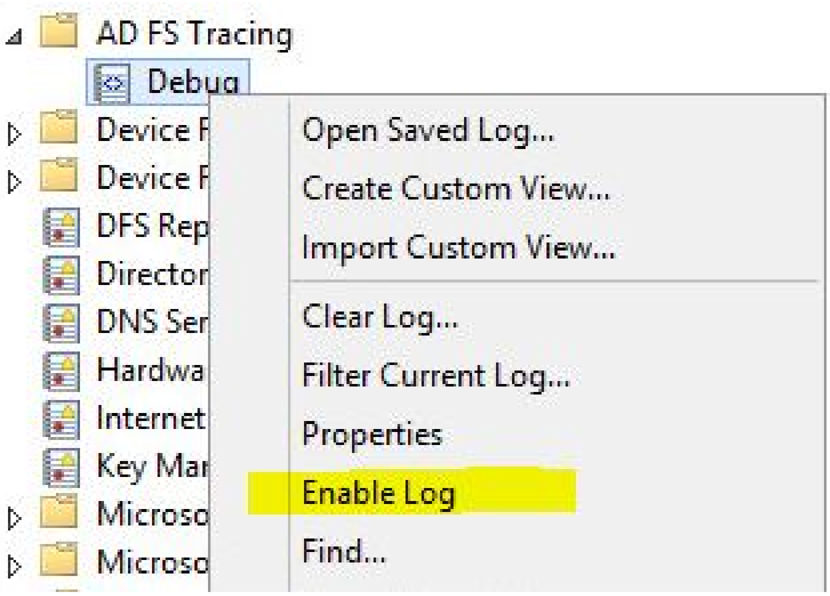
- Open Up Event Viewer and enable analytic and debug logs. Refresh your view; a new AD FS Tracing folder will appear.


Event Viewer (Local)
Custom Views
Windows Logs
Applications and Services Logs
Active Directory Web Ser
AD FS
AD FS Tracing
Debug
Device Registration Servi
Device Registration Servi
DFS Replication
Open Saved Log...
Create Custom View...
Import Custom View...
View
Refresh
✓ Show Analytic and Debug Logs
Customize...
Applications and Services Logs
Name
Active Directory Web Service
AD FS
AD FS Tracing
Device Registration Service
Device Registration Service T
DNS Server

- Right click on Debug and select Enable Log



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