



# Configure SSO with Active Directory Federation Services (AD FS)

Last Modified on 01/22/2026 1:59 pm EST

This tutorial will help walk you through setting up an integration between AD FS and KnowledgeOwl using SAML 2.0. This feature is available on [select plans](#).

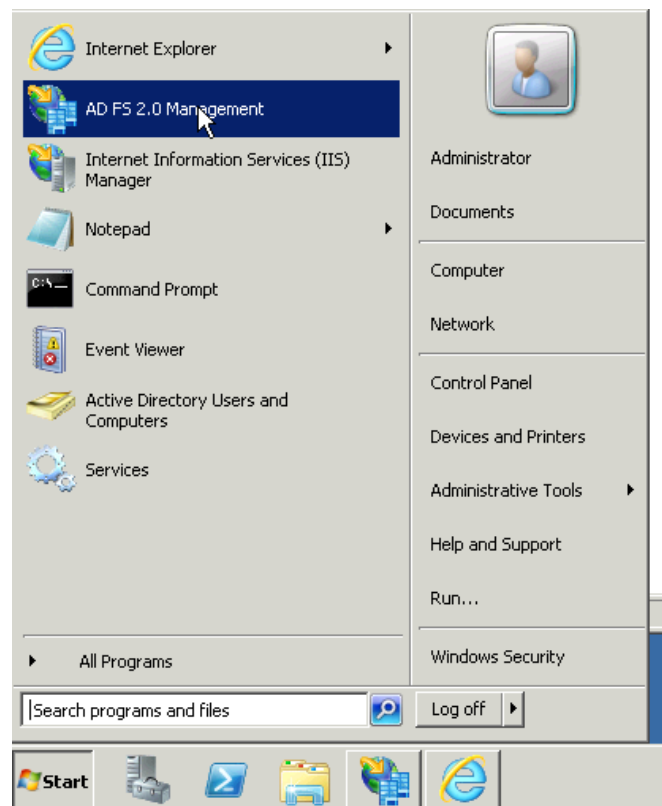


## Screenshot warning

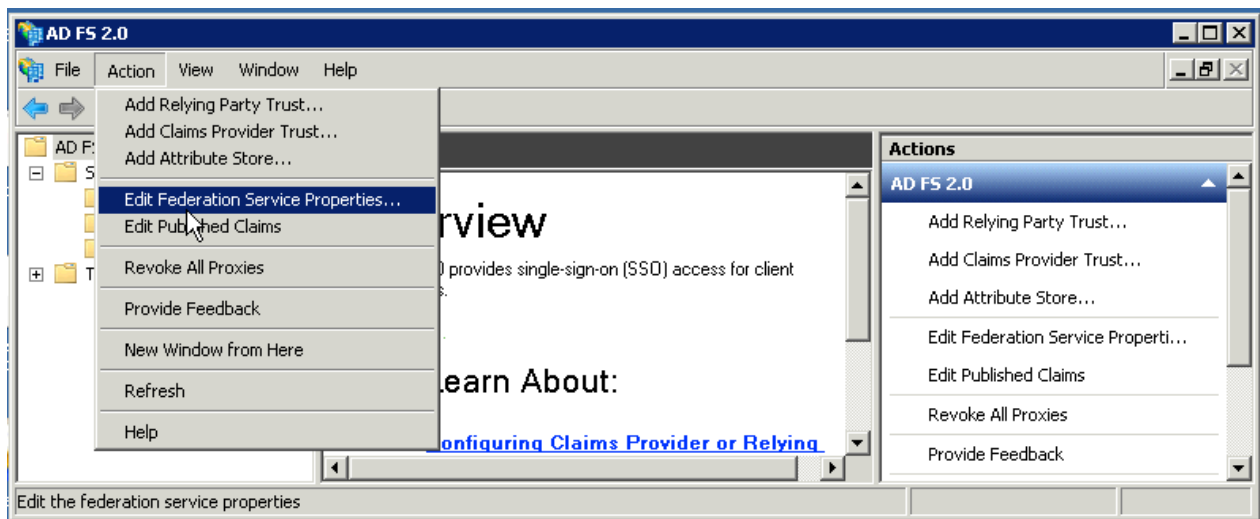
The screenshots below may not match your version of AD FS, but the steps to complete the integration should be the same.

## Step 1: Add your IdP info to KnowledgeOwl

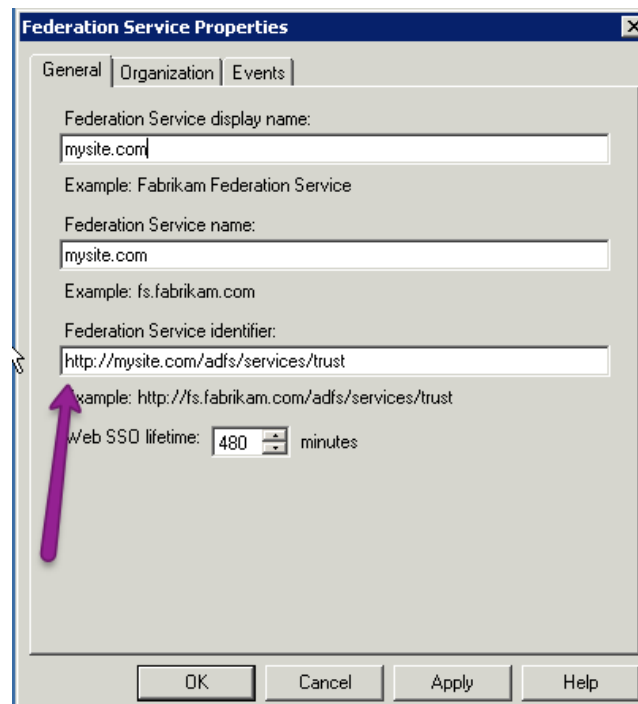
1. On your Windows server, find and open AD FS 2.0 Management [commonly found in **Start > Administrative Tools**].



2. Once you have opened AD FS Management, go to **Action > Edit Federation Service Properties**.



### 3. Copy the Federation Service Identifier URL.



### 4. In KnowledgeOwl, go to Security and access > Single sign-on.

### 5. Scroll to the Identity provider metadata section.

### 6. Paste the link you copied in Step 3 as the IdP entityID.

### 7. Enter your IdP login URL and IdP logout URL.

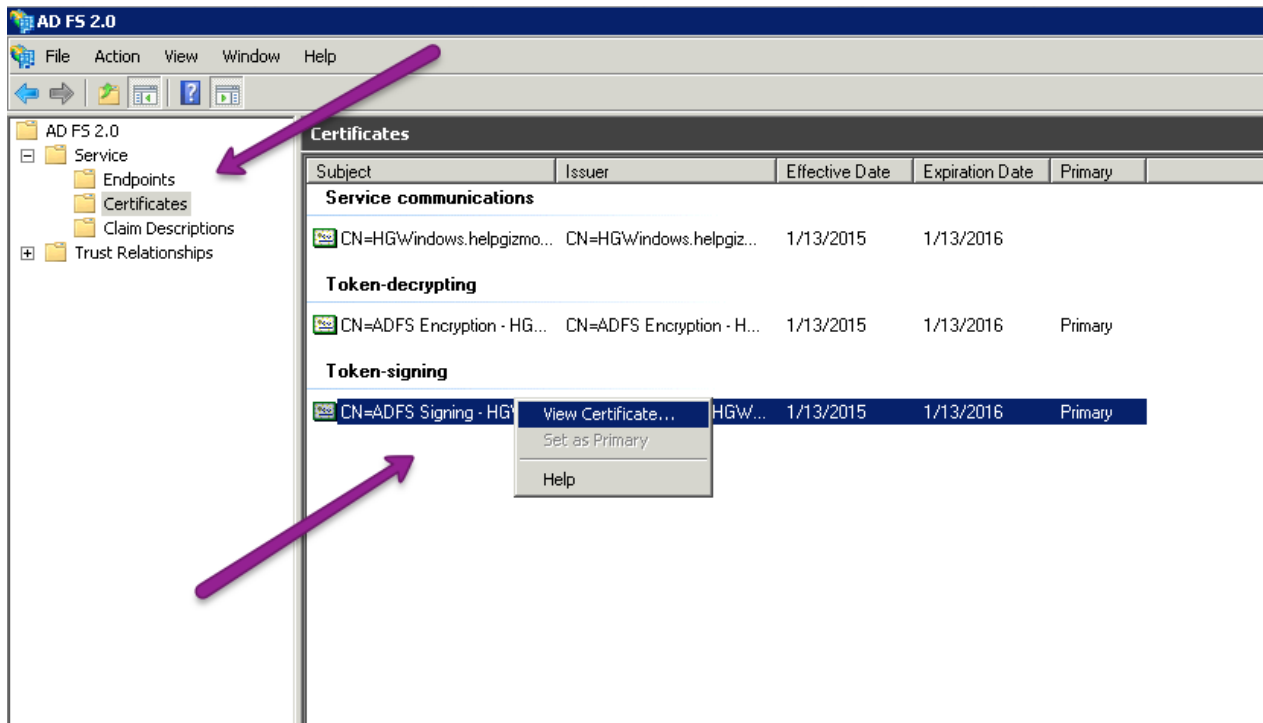
- a. If your AD FS build doesn't explicitly list these URLs, you can usually create remove `/adfs/services/trust` from your IdP entityID URL and replace it with `/adfs/ls/`. For example, if my IdP entityID URL was `https://mysite.com/adfs/services/trust`, my IdP login URL and IdP logout URL are `https://mysite.com/adfs/ls/`.

8. Be sure to **Save** your changes in KnowledgeOwl if you're not immediately continuing to Step 2.

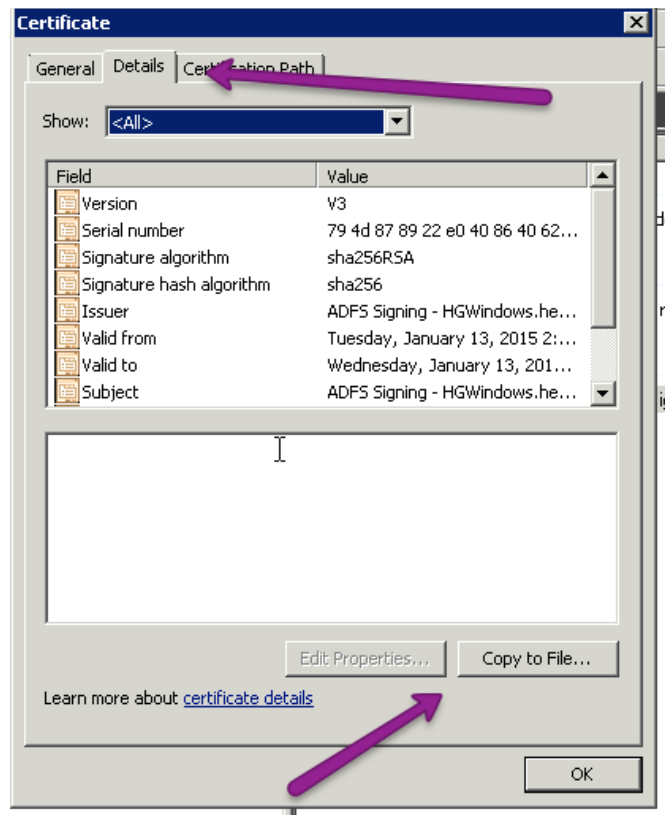
## Step 2: Upload the IdP certificate to KnowledgeOwl

Next, export your AD FS cert into an x509 DER format to upload into KnowledgeOwl. To do so:

1. In AD FS 2.0, go to **Service > Certificates**.
2. In the main pane, right-click on the certificate in the **Token-signing** section.
3. Select **View Certificate...** in the right-click menu.



4. Open the **Details** tab.
5. Select **Copy to File...**



6. This opens a **Certificate Export Wizard**. In the wizard, choose **Next** until you get to the format page. On the format page, make sure that **DER encoded binary X.509** is selected and choose **next**.
7. Choose a filename and a location that you will remember for the cert and then finish the wizard.
8. In KnowledgeOwl, go to **Security and access > Single sign-on**.
9. Be sure you're in the **SAML settings** tab.
10. In the **Identity provider metadata** section, select **Upload certificate...** to upload the file you just created.
11. Once you have selected the correct certificate, be sure to **Save** your changes.


## Step 3: Enable SAML SSO

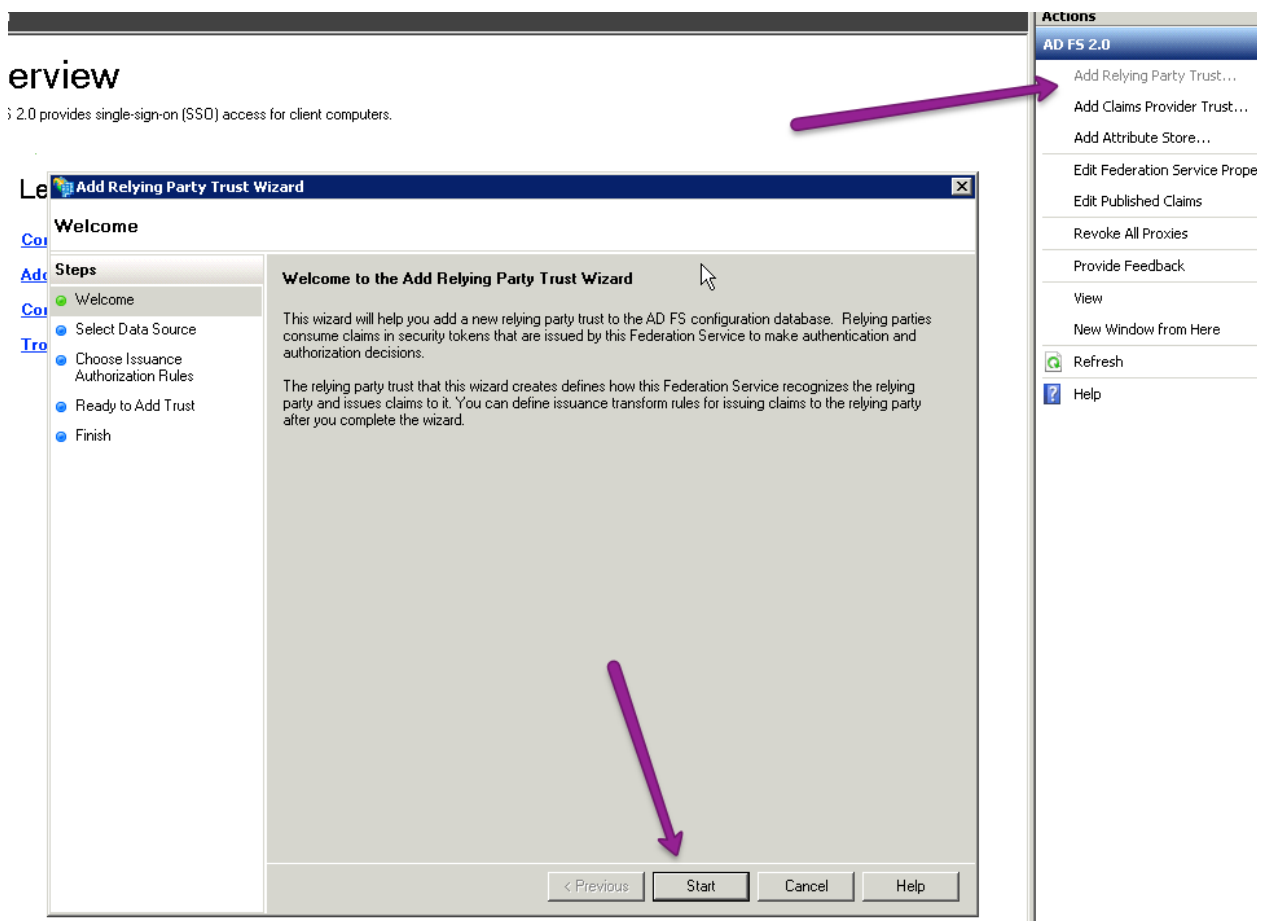
Once you have entered the 3 IdP fields and have uploaded the IdP certificate into KnowledgeOwl, enable SAML SSO:

1. Go to **Security and access > Single sign-on**.
2. Be sure you're in the **SAML settings** tab.
3. In the **SAML settings** section, select **Enable SAML SSO reader logins**.
4. Be sure to **Save** your changes.

## Step 4: Add the KnowledgeOwl SP info to your IdP

Now that KnowledgeOwl has your information, you will need to grab some data from KnowledgeOwl to add into AD FS.

1. In KnowledgeOwl, go to **Security and access > Single sign-on**.
2. Be sure you're in the **SAML settings** tab.
3. In the **Service provider metadata** section, select **View metadata** underneath **SP metadata XML**. The **KnowledgeOwl metadata** modal opens.
4. Select anywhere in the **Service provider metadata for knowledge base** text box to highlight the full XML contents.  

5. Copy that text and paste it into the simple text editor of your choice (Notepad works well).
6. Save the file as `ko-metadata.xml`.
  - a. If you're using Notepad, set **Save as type:** to **All Files** to ensure it gets saved as an .xml. XML format is required for AD FS.
7. In AD FS, select **Add Relying Party Trust...**. The **Add Relying Party Trust Wizard** opens.
8. Select **Start** within that wizard.

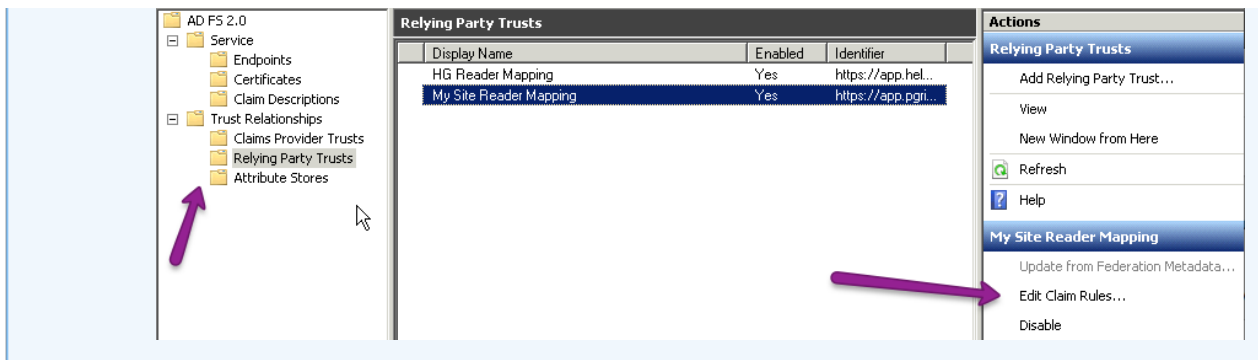


9. On the next screen, select **Import data about the relying party from a file**.
10. Browse to the XML metadata that we saved in Step 6 and choose **Next**.
11. Choose a name that makes sense, such as "KnowledgeOwl SSO", add whatever notes you would like, and select **Next**.
12. For most setups, you can click next until you finish this wizard, which should open up the **Edit Claim Rules** dialog.



#### **I don't see Edit Claim Rules**

If the **Edit Claim Rules** dialog does not open automatically, you can navigate to it by going to **Trust Relationships > Relying Party Trusts**, select the trust identifier you created in Step 11, and click on **Edit Claim Rules....**



13. In the **Edit Claim Rules** dialog, select **Add Rule....**

14. Choose the default **Send LDAP Attributes as Claims** and select **Next**.

15. Here you can choose what information you want to send to KnowledgeOwl. At the very least you need to send the **E-Mail Addresses**.

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:

Rule template: Send LDAP Attributes as Claims

Attribute store:

Mapping of LDAP attributes to outgoing claim types:

	LDAP Attribute	Outgoing Claim Type
▶	E-Mail-Addresses	E-Mail Address
*		

View Rule Language... OK Cancel Help

16. Select **Add Rule...** again.

17. This time under **Claim rule template**: choose **Transform an Incoming Claim** and select **Next**.

18. Set the **Claim rule name** to **KO Name ID** or something similar.

19. Set the **Incoming claim type** to **E-Mail Address**.
20. Set the **Outgoing claim type** to **Name ID**.
21. Set the **Outgoing name ID format** to **Email**.
22. Be sure the option to **Pass through all claim values** is selected. Your configuration should look a bit like this:

The screenshot shows the 'Add Transform Claim Rule Wizard' dialog box, specifically the 'Configure Rule' step. The 'Steps' pane on the left shows 'Choose Rule Type' and 'Configure Claim Rule' (the current step). The main area contains the following configuration options:

- Claim rule name:** HG Name ID
- 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
- Options:**
  - ☒ Pass through all claim values
  - ☐ Replace an incoming claim value with a different outgoing claim value
    - Incoming claim value: [text box]
    - Outgoing claim value: [text box] Browse...
  - ☐ Replace incoming e-mail suffix claims with a new e-mail suffix
    - New e-mail suffix: [text box]
    - Example: fabrikam.com

At the bottom, there are buttons for '< Previous', 'Finish', 'Cancel', and 'Help'.

23. Select **Finish**.

## Step 5: Enable debug mode

AD FS may send the attribute claims over in a way that you are not expecting.

In order to view how AD FS is sending the claims, in KnowledgeOwl:

1. In **Security and access > Single sign-on** in the **SAML Settings** tab, check the box next to **Enable debug mode to troubleshoot issues**.
2. **Save**.
3. In a private browser window or in an incognito tab, copy and paste the **SP Login URL** into the address bar. If



the above steps were done correctly, you should be asked to log into your AD server where you will be redirected back to your knowledge base.

4. In debug mode, you'll then see a list of the IdP attributes that AD FS is sending over.
5. Keep this window open while you work on Step 6. Once you're done with Step 6, be sure to uncheck **Enable debug mode** to troubleshoot issues and re-save the settings.

## Step 6: Map SAML attributes to fields in KnowledgeOwl

With your debug window open, you can now map SAML attributes to fields in KnowledgeOwl. To do so:

1. In KnowledgeOwl, go to **Security and access > Single sign-on**.
2. Open the **SAML attribute map** tab.
3. In your debug output, locate the **attribute value** that contains your email address, and copy the **Attribute Name** exactly as it appears after the colon.
4. Paste that attribute name into the fields for **SSO ID** and **Username / Email** in the KnowledgeOwl **SAML attribute map** tab.
5. To map additional fields, repeat this process. Refer to [SAML attribute map](#) for more information.
  - If you cannot directly map an IdP attribute to a KnowledgeOwl reader attribute, use [Custom attribute map rules](#).
6. Once you're done mapping fields, uncheck the **Enable debug mode** checkbox.
7. **Save** all your changes.
8. In the tab or window that contained the debug information, select **Re-login to see any changes** at the top to log in through AD FS again. If everything was successful, you'll log into your knowledge base. If so, congratulations! You now have a working SAML SSO integration with AD FS.

The SSO ID is a required mapping. If you don't set it up, you'll see a **warning** message in **Security and access > Single sign-on**:

□

## Step 7: Optional settings

With your AD FS SAML SSO login working, review two other settings:

- If you want readers to only be able to log in using SAML SSO, go to **Security and access > Single sign-on** and select **Require all readers to log in via SAML SSO**. This overrides the **Content authentication** in **Security and access > Security settings**.
- If you'd like to use the AD FS SAML SSO as your only or primary reader authentication mechanism, go to

**Security and access > Security settings. In Authentication settings > Unauthenticated access behavior, select Redirect them to your SAML login URL and Save.**

Refer to [SSO options for different knowledge base setups](#) for more information.

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