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Tutorial: Azure Active Directory single sign-on (SSO) integration with KnowledgeOwl

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In this tutorial, you'll learn how to integrate KnowledgeOwl with Azure Active Directory (Azure AD). When you integrate KnowledgeOwl with Azure AD, you can:

- Control in Azure AD who has access to KnowledgeOwl.
- Enable your users to be automatically signed-in to KnowledgeOwl with their Azure AD accounts.
- Manage your accounts in one central location the Azure portal.

Prerequisites

To get started, you need the following items:

- An Azure AD subscription. If you don't have a subscription, you can get a free account
- KnowledgeOwl single sign-on (SSO) enabled subscription.

Scenario description

In this tutorial, you configure and test Azure AD SSO in a test environment.

- KnowledgeOwl supports SP and IDP initiated SSO.
- KnowledgeOwl supports Just In Time user provisioning.

Add KnowledgeOwl from the gallery

To configure the integration of KnowledgeOwl into Azure AD, you need to add KnowledgeOwl from the gallery to your list of managed SaaS apps.

- Sign in to the Azure portal using either a work or school account, or a personal Microsoft account.
- 2. On the left navigation pane, select the Azure Active Directory service.
- 3. Navigate to **Enterprise Applications** and then select **All Applications**.
- 4. To add new application, select **New application**.
- 5. In the Add from the gallery section, type KnowledgeOwl in the search box.
- 6. Select **KnowledgeOwl** from results panel and then add the app. Wait a few seconds while the app is added to your tenant.

Configure and test Azure AD SSO for KnowledgeOwl

Configure and test Azure AD SSO with KnowledgeOwl using a test user called **B.Simon**. For SSO to work, you need to establish a link relationship between an Azure AD user and the related user in KnowledgeOwl.

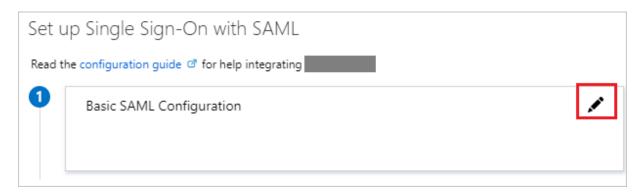
To configure and test Azure AD SSO with KnowledgeOwl, perform the following steps:

- 1. Configure Azure AD SSO to enable your users to use this feature.
 - a. Create an Azure AD test user to test Azure AD single sign-on with B.Simon.
 - b. Assign the Azure AD test user to enable B.Simon to use Azure AD single sign-on.
- 2. **Configure KnowledgeOwl SSO** to configure the single sign-on settings on application side.
 - a. Create KnowledgeOwl test user to have a counterpart of B.Simon in KnowledgeOwl that is linked to the Azure AD representation of user.
- 3. Test SSO to verify whether the configuration works.

Configure Azure AD SSO

Follow these steps to enable Azure AD SSO in the Azure portal.

- In the Azure portal, on the KnowledgeOwl application integration page, find the Manage section and select single sign-on.
- 2. On the **Select a single sign-on method** page, select **SAML**.
- On the Set up single sign-on with SAML page, click the pencil icon for Basic SAML Configuration to edit the settings.



- 4. On the **Basic SAML Configuration** section, if you wish to configure the application in **IDP** initiated mode, enter the values for the following fields:
 - a. In the **Identifier** text box, type the URL using one of the following patterns:

```
https://app.knowledgeowl.com/sp
https://app.knowledgeowl.com/sp/id/<unique ID>
```

b. In the **Reply URL** text box, type the URL using one of the following patterns:

```
https://subdomain.knowledgeowl.com/help/saml-login
https://subdomain.knowledgeowl.com/docs/saml-login
https://subdomain.knowledgeowl.com/home/saml-login
https://privatedomain.com/help/saml-login
https://privatedomain.com/docs/saml-login
https://privatedomain.com/home/saml-login
```

5. Click **Set additional URLs** and perform the following step if you wish to configure the application in **SP** initiated mode:

In the **Sign-on URL** text box, type the URL using one of the following patterns:

```
https://subdomain.knowledgeowl.com/help/saml-login
https://subdomain.knowledgeowl.com/docs/saml-login
https://subdomain.knowledgeowl.com/home/saml-login
https://privatedomain.com/help/saml-login
https://privatedomain.com/docs/saml-login
https://privatedomain.com/home/saml-login
```

① Note

These values are not real. You'll need to update these value from actual Identifier, Reply URL, and Sign-On URL which is explained later in the tutorial.

6. KnowledgeOwl application expects the SAML assertions in a specific format, which requires you to add custom attribute mappings to your SAML token attributes configuration. The following screenshot shows the list of default attributes.

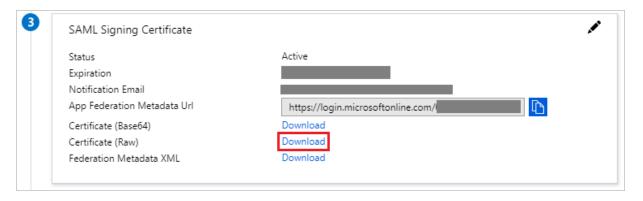


7. In addition to above, KnowledgeOwl application expects few more attributes to be passed back in SAML response which are shown below. These attributes are also pre populated but you can review them as per your requirements.

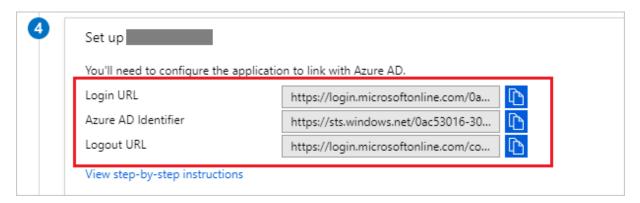
Name	Source Attribute	Namespace
ssoid	user.mail	http://schemas.xmlsoap.org/ws/2005/05/identity/claims

8. On the **Set up single sign-on with SAML** page, in the **SAML Signing Certificate** section, find **Certificate (Raw)** and select **Download** to download the certificate and

save it on your computer.



9. On the **Set up KnowledgeOwl** section, copy the appropriate URL(s) based on your requirement.



Create an Azure AD test user

In this section, you'll create a test user in the Azure portal called B.Simon.

- 1. From the left pane in the Azure portal, select **Azure Active Directory**, select **Users**, and then select **All users**.
- 2. Select **New user** at the top of the screen.
- 3. In the **User** properties, follow these steps:
 - a. In the **Name** field, enter B.Simon.
 - b. In the **User name** field, enter the username@companydomain.extension. For example, B.Simon@contoso.com.
 - c. Select the **Show password** check box, and then write down the value that's displayed in the **Password** box.
 - d. Click Create.

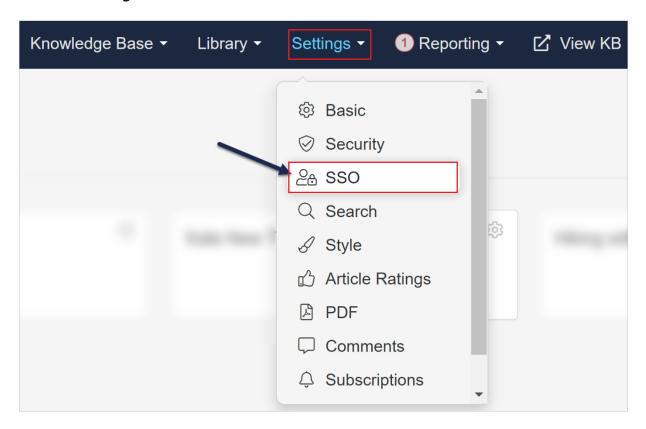
Assign the Azure AD test user

In this section, you'll enable B.Simon to use Azure single sign-on by granting access to KnowledgeOwl.

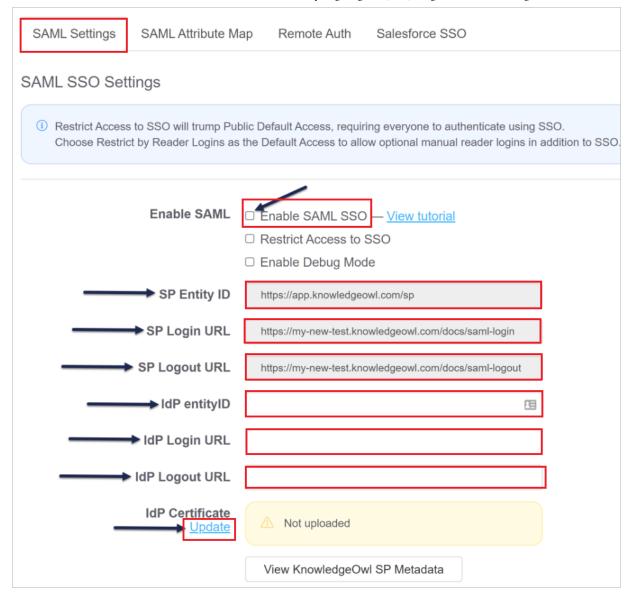
- 1. In the Azure portal, select **Enterprise Applications**, and then select **All applications**.
- 2. In the applications list, select **KnowledgeOwl**.
- 3. In the app's overview page, find the Manage section and select Users and groups.
- 4. Select Add user, then select Users and groups in the Add Assignment dialog.
- 5. In the **Users and groups** dialog, select **B.Simon** from the Users list, then click the **Select** button at the bottom of the screen.
- 6. If you are expecting a role to be assigned to the users, you can select it from the **Select a role** dropdown. If no role has been set up for this app, you see "Default Access" role selected.
- 7. In the Add Assignment dialog, click the Assign button.

Configure KnowledgeOwl SSO

- 1. In a different web browser window, sign in to your KnowledgeOwl company site as an administrator.
- 2. Click on **Settings** and then select **SSO**.



3. In the Scroll to **SAML Settings** tab, perform the following steps:

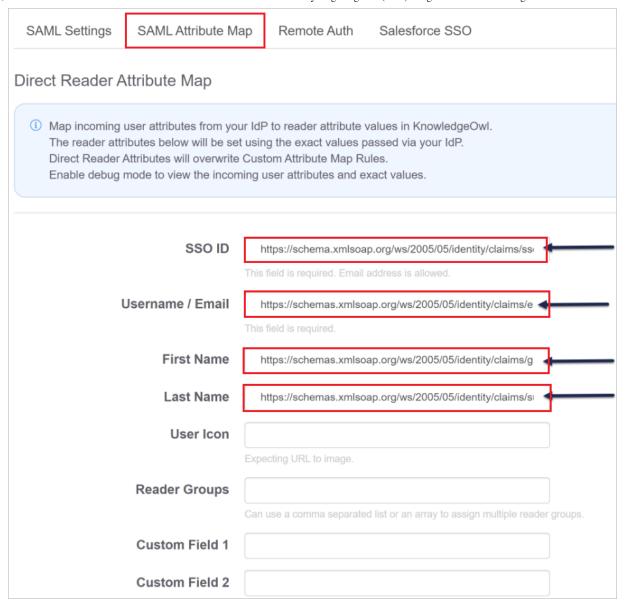


- a. Select Enable SAML SSO.
- b. Copy the SP Entity ID value and paste it into the Identifier (Entity ID) in the Basic SAML Configuration section on the Azure portal.
- c. Copy the SP Login URL value and paste it into the Sign-on URL and Reply URL textboxes in the Basic SAML Configuration section on the Azure portal.
- d. In the IdP entityID textbox, paste the Azure AD Identifier value, which you have copied from the Azure portal.
- e. In the **IdP Login URL** textbox, paste the **Login URL** value, which you have copied from the Azure portal.
- f. In the IdP Logout URL textbox, paste the Logout URL value, which you have copied from the Azure portal.

- g. Upload the downloaded certificate form the Azure portal by clicking the **Upload** link beneath **IdP Certificate**.
- h. Click **Save** at the bottom of the page.

Advanced Options	☐ Use a unique SP entity ID for this knowledge base
	Enitity ID and metadata will be updated upon saving.
	$\hfill\Box$ Issue a remote logout request using the IdP logout URL when a reader logs out
	$\hfill \square$ On IdP initiated SSO, send readers to the RelayState specified landing page
	Default behavior is to send readers to the home page.
	☐ Sign all messages coming from this SP
	□ Sign metadata coming from this SP
	☐ Sign all logout requests coming from this SP
	□ Require all IdP assertions to be signed
	□ Require all IdP messages to be signed
	□ Require all IdP assertions to be encrypted
	Encryption uses rsa-sha256 algorithm. The SP public key can be found in the KnowledgeOwl XML Metadata.
	☐ User login on SSO ID match only
	Default behavior is to login as user with matching SSO ID or username / email.
	Save

i. Open the **SAML Attribute Map** tab to map attributes and perform the following steps:



- Enter http://schemas.xmlsoap.org/ws/2005/05/identity/claims/ssoid into the SSO ID textbox.
- Enter
 http://schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress
 into the Username/Email textbox.
- Enter http://schemas.xmlsoap.org/ws/2005/05/identity/claims/givenname into the **First Name** textbox.
- Enter http://schemas.xmlsoap.org/ws/2005/05/identity/claims/surname into the Last Name textbox.
- j. Click **Save** at the bottom of the page.

000 ID	
SSO ID	https://schema.xmlsoap.org/ws/2005/05/identity/claims/ss
	This field is required. Email address is allowed.
Username / Email	https://schemas.xmlsoap.org/ws/2005/05/identity/claims/e
	This field is required.
First Name	https://schemas.xmlsoap.org/ws/2005/05/identity/claims/g
Loof Name	https://selegges.com/selegges/des/des/des/des/des/des/des/des/des/d
Last Name	https://schemas.xmlsoap.org/ws/2005/05/identity/claims/si
User Icon	
	Expecting URL to image.
Reader Groups	
	Can use a comma separated list or an array to assign multiple reader group
Custom Field 1	
Custom Field 2	
Cuctomi i loid L	
Custom Field 3	
Custom Field 4	
Custom Field 5	
	Save

Create KnowledgeOwl test user

In this section, a user called B.Simon is created in KnowledgeOwl. KnowledgeOwl supports just-in-time user provisioning, which is enabled by default. There is no action item for you in this section. If a user doesn't already exist in KnowledgeOwl, a new one is created after authentication.

① Note

If you need to create a user manually, contact KnowledgeOwl support team.

Test SSO

In this section, you test your Azure AD single sign-on configuration with following options.

SP initiated

- Click on **Test this application** in Azure portal. This will redirect to KnowledgeOwl Sign on URL where you can initiate the login flow.
- Go to the KnowledgeOwl sign-on URL directly and initiate the login flow from there.

IDP initiated

• Click on **Test this application** in the Azure portal and you should be automatically signed in to the KnowledgeOwl application for which you set up the SSO.

You can also use the Microsoft My Apps portal to test the application in any mode. When you click the KnowledgeOwl tile in the My Apps portal, if configured in SP mode you would be redirected to the application sign on page for initiating the login flow and if configured in IDP mode, you should be automatically signed in to the KnowledgeOwl application for which you set up the SSO. For more information about the My Apps portal, see Introduction to My Apps .

Next steps

Once you configure KnowledgeOwl, you can enforce session control, which protects exfiltration and infiltration of your organization's sensitive data in real time. Session control extends from Conditional Access. Learn how to enforce session control with Microsoft Defender for Cloud Apps.

Recommended content

Debug SAML-based single sign-on - Azure AD

Debug SAML-based single sign-on to applications in Azure Active Directory.

Azure AD Connect: Use a SAML 2.0 Identity Provider for Single Sign On - Azure

This document describes using a SAML 2.0 compliant Idp for single sign on.

Error message appears on app page after you sign in - Azure AD

How to resolve issues with Azure AD sign in when the app returns an error message.

Tutorial: Azure Active Directory integration with SAML SSO for Confluence by resolution GmbH

Learn how to configure single sign-on between Azure Active Directory and SAML SSO for Confluence by resolution GmbH.

Configure a SAML 2.0 provider for portals with Azure AD - Power Apps

Learn how to configure SAML 2.0 for portals with Azure Active Directory.

Error AADSTS750054 - SAMLRequest or SAMLResponse must be present as query string parameters in HTTP request for SAML Redirect binding. - Active Directory

Describes a problem in which you receive an error message when signing in to SAML-based single sign-on configured app that has been configured to use Azure Active Directory as an Identity Provider (IdP). The error you receive is Error AADSTS750054 - SAMLRequest or...

Problems signing in to SAML-based single sign-on configured apps - Active Directory

Guidance for the specific errors when signing into an application you have configured for SAML-based federated single sign-on with Azure Active Directory.

Troubleshoot SAML-based single sign-on - Azure AD

Troubleshoot issues with an Azure AD app that's configured for SAML-based single sign-on.

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