

Configure Single Sign-on (SSO) with Microsoft Entra ID

Set up Stack Overflow for Teams Enterprise for SAML authentication with an Entra ID Enterprise application.

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Tags | [Authentication](#) | [SAML](#) | [SSO](#) | [Azure](#) | [Entra ID](#) |

Applies to: Free Basic Business Enterprise

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

These instructions describe how to integrate your Stack Overflow for Teams Enterprise (SOE) site with Microsoft's Entra ID as your Identity Provider (IdP) for authentication. Once configured, your users will be able to use Entra ID and the Security Assertion Markup Language (SAML) for Single Sign-on (SSO) authentication into your site. You can learn more about SAML in our [SAML Authentication Overview](#) document.

To configure Entra ID authentication, you'll need to first log into your Microsoft Entra ID account. From your Entra ID portal, go to **Entra ID** and click **Enterprise applications** in the left-hand menu.

NOTE: If you can't find the Entra ID button under the "Azure services" heading, click **More services** and search for "Entra ID".

Configuring SSO with Entra ID requires multiple steps in both Entra ID and Stack Overflow for Teams. We recommend having both sites open in separate browser tabs or windows.

THIS ARTICLE APPLIES TO STACK OVERFLOW FOR TEAMS ENTERPRISE ONLY.

Other Stack Overflow for Teams users should read [this article](#) instead. [Find your plan](#).


Configure Entra ID

Create a new application

1. In Entra ID, create a new Entra ID application by clicking **+ New application** at the top of the screen. The Entra ID Gallery will appear.
2. Click **Create your own application** at the top of the screen.
3. Enter a name for your app, such as "Stack Overflow Enterprise".
4. Make sure the **Integrate any other application... (Non-gallery)** option is selected.

5. Click **Create**.

Create your own application

 Got feedback?

If you are developing your own application, using Application Proxy, or want to integrate an application that is not in the gallery, you can create your own application here.

What's the name of your app?

Stack Overflow Enterprise

What are you looking to do with your application?

☐ Configure Application Proxy for secure remote access to an on-premises application

☐ Register an application to integrate with Azure AD (App you're developing)

☒ Integrate any other application you don't find in the gallery (Non-gallery)

Configure SAML 2.0 URLs

With a new Entra ID application created, you'll now set up single sign-on (SAML 2.0).

1. Click **Single sign-on** in the left-hand menu.
2. Select **SAML**.
3. In the **Basic SAML Configuration** box, click **Edit**.
4. Add the following URLs:

Identifier (Entity ID)





Enter your site URL here. For example: newstacksite.stackenterprise.co.

Identifier (Entity ID) *

The unique ID that identifies your application to Azure Active Directory. This value must be unique across all applications in your Azure Active Directory tenant. The default identifier will be the audience of the SAML response for IDP-initiated SSO.

Default

newstacksite.stackenterprise.co

Add identifier

Reply URL

Your site has a pre-configured SAML authentication URL: `https://[your site]/auth/saml2/post`. Replace [your site] with your actual SOE URL, and enter it into the **Reply URL** field. The URL must start with "https://". For example: `https://newstacksite.stackenterprise.co/auth/saml2/post`.

Reply URL (Assertion Consumer Service URL) * ⓘ

The reply URL is where the application expects to receive the authentication token. This is also referred to as the "Assertion Consumer Service" (ACS) in SAML.

Index Default

☒
☐ ⓘ

[Add reply URL](#)

5. Click **Save**.

6. Confirm that the **Attributes and Claims** list includes the `emailaddress` (user.mail) attribute. If that attribute is missing, your Entra ID authentication will fail. [Reach out](#) to Stack Overflow support if you don't see the email address attribute listed.

| Attributes & Claims | |
|------------------------|------------------------|
| givenname | user.givenname |
| surname | user.surname |
| emailaddress | user.mail |
| name | user.userprincipalname |
| Unique User Identifier | user.userprincipalname |

You can also add the following optional SAML parameters (attributes):

- Job title (as `jobtitle`)
- Department (as `department`)

When Entra ID includes `jobtitle` and `department` in the SAML response, SOE automatically updates these user data fields on login. Including these attributes also allows you to use SOE's [Connectivity](#) reporting feature.

7. In the **SAML Signing Certificate** section, locate "Certificate (Base 64)" and click its **Download** link. Save the certificate file on your computer.

| SAML Signing Certificate | |
|-----------------------------|---------------------------------------|
| Status | Active |
| Thumbprint | E193EE9A8D9C0F3AD197F944DD6FC9B |
| Expiration | 6/29/2025, 2:16:23 PM |
| Notification Email | user@4lgjyb.onmicrosoft.com |
| App Federation Metadata Url | https://login.microsoftonline.com/102 |
| Certificate (Base64) | Download |
| Certificate (Raw) | Download |
| Federation Metadata XML | Download |

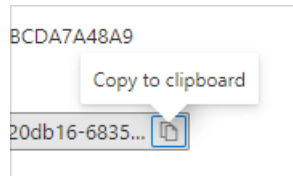
8. Only users (or user groups) assigned to your Azure enterprise application will be able to log into SOE. Click **Users and groups** then **Add user/group** to assign individual users or groups to allow authentication into SOE.

Configure your SOE site

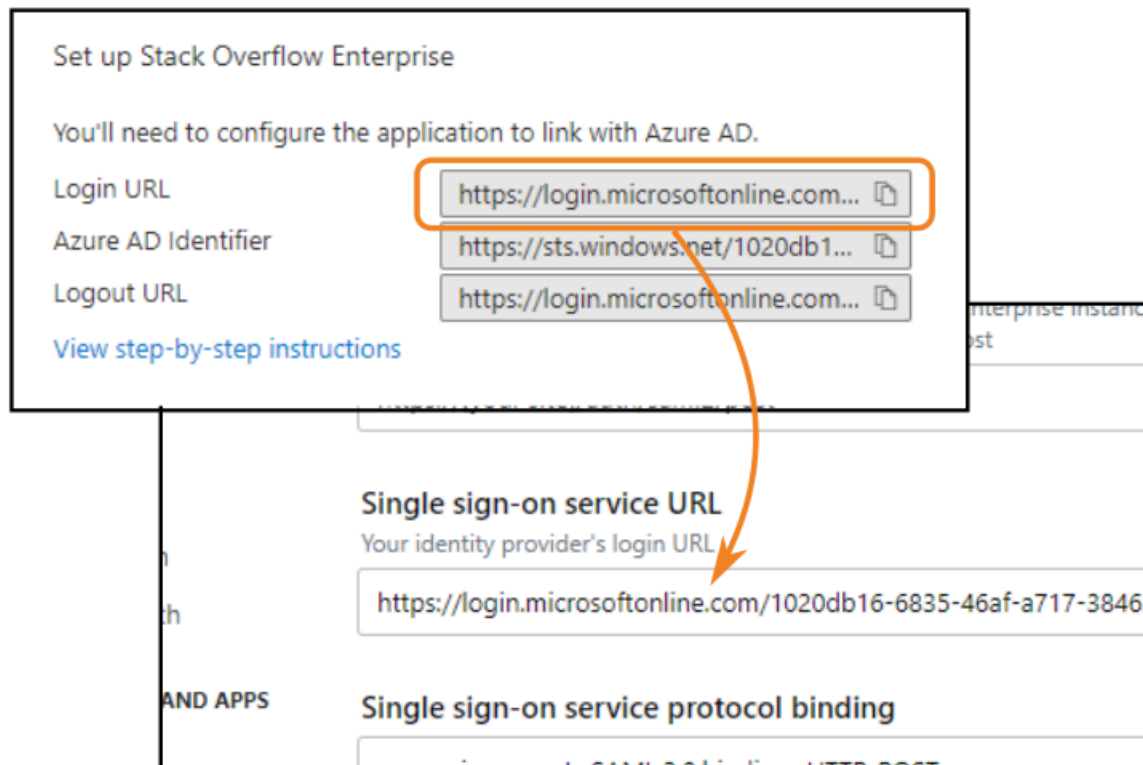
You'll complete the rest of the Entra ID authentication configuration in SOE. Log in to SOE as an administrator in a new browser tab or window. Click **Admin settings** in the left-hand menu, then **Authentication**. Click **Configure SAML 2.0**.

Configure authentication settings

Switch between tabs to copy the following values from Entra ID to your SOE authentication page. You can click the **Copy to clipboard** button to capture URLs to your clipboard, then paste those values into SOE.



1. Copy the **Login URL** value from the Entra ID "Set up [your application name]" box and paste it in the **Single sign-on service URL** field.



2. Copy the **Identifier (Entity ID)** value from the Entra ID "Basic SAML Configuration" box and paste it into the **Issuer** and **Audience restriction** fields.

Basic SAML Configuration

Identifier (Entity ID) newstacksite.stackenterprise.co

Reply URL (Assertion Consumer Service URL) https://newstacksite.stackenterprise.co/auth/saml2/post

Sign on URL Optional

Relay State (Optional) Optional

Logout Url (Optional) Optional

Issuer

Some identity providers will give this to you, others will let you choose
e.g., https://support.dev.stackenterprise.co/auth/saml2/info

newstacksite.stackenterprise.co

Audience restriction Optional

If empty, does not restrict login based on audience. Otherwise, we expect the SAML r
e.g., https://support.dev.stackenterprise.co/auth/saml2/info

newstacksite.stackenterprise.co

3. **Display name assertion** should be automatically set to <http://schemas.microsoft.com/identity/claims/name>. Verify that this is correct with these steps:

1. Click **Edit** in the Entra ID "Attributes & Claims" box.
2. In the "Additional claims" area, locate the entry with a value of **user.principalname**.
3. Verify that the corresponding **Claim name** is <http://schemas.microsoft.com/identity/claims/name>. If it's not, copy the **Claim name** from Entra ID and paste it into the SOE **Display Name Assertion** field.
4. Click **X** in the upper-right corner to exit the Attributes & claims edit mode.

| Additional claims | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Claim name | Value |
| http://schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress | user.mail |
| http://schemas.xmlsoap.org/ws/2005/05/identity/claims/givenname | user.givenname |
| http://schemas.xmlsoap.org/ws/2005/05/identity/claims/name | user.userprincipalname |
| http://schemas.xmlsoap.org/ws/2005/05/identity/claims/surname | user.surname |

4. **Email address assertion** should be automatically set to <http://schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress>. Verify that this is correct with these steps:

1. Click **Edit** in the Entra ID "Attributes & Claims" box.
2. In the "Additional claims" area, locate the entry with a value of **user.mail**.

3. Verify that the corresponding **Claim name** is `http://schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress`. If it's not, copy the **Claim name** from Entra ID and paste it into the SOE **Email Address Assertion** field.
4. Click **X** in the upper-right corner to exit the Attributes & claims edit mode.

| Additional claims | |
|---------------------------------------------------------------------------------|-------------------------------------|
| Claim name | Value |
| <code>http://schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress</code> | <code>user.mail</code> |
| <code>http://schemas.xmlsoap.org/ws/2005/05/identity/claims/givenname</code> | <code>user.givenname</code> |
| <code>http://schemas.xmlsoap.org/ws/2005/05/identity/claims/name</code> | <code>user.userprincipalname</code> |
| <code>http://schemas.xmlsoap.org/ws/2005/05/identity/claims/surname</code> | <code>user.surname</code> |

5. **Use Subject/NameID as user identifier** is checked by default, which allows the IdP to specify the user identifier based on your SAML app configuration. This is the recommended setting.

If you uncheck this option, you can manually specify a **User identifier assertion** of your choice. Be sure to choose a user identifier that will never change (for example: login or user ID). Email address is *not* a good choice for user identifier, as email addresses can change.

☒ **Use Subject/NameID as user identifier**
If not checked, please enter a User Identifier below. If checked, the User Identifier As: be used. Please make sure to use a stable identifier (e.g., Persistent) that doesn't cha (e.g., don't use Transient)

6. If you added the optional job title and department attributes, repeat the process above to configure these fields in SOE.
7. Leave other fields and checkboxes unchanged (set to their defaults).
8. Open the certificate file you downloaded from Entra ID in a text editor. Copy and paste the contents of the file into the **Identity Provider Certificates** box, including "-----BEGIN CERTIFICATE-----" and "-----END CERTIFICATE-----".

Identity provider certificates
Base64-Encoded public keys, used to verify SAML responses from the identity provider

```
-----BEGIN CERTIFICATE-----
MIIDqjCCApKgAwIBAgIGAXV1mhojMA0GCSqGSIb3DQEBCwUAMIGVMQswCQYDVQQG
A1UECAwKQ2FsaWZvcn5pYTEwMBQGA1UEBwwNU2FuEzYyW5jaXNjbzENMAsGA1UE
MBIGA1UECwwLU1NPUHJvdmlkZXIxFjAUBgNVBAMMDXN0YWNrb3ZlcmZsb3cxHDAaBg
CQEWDWluZm9Ab2t0YS5jb20wHhcNMjA1MDI5MTgyMjU0WWhcNMzA1MDI5MTgyMzU0
A1UEBhMCVVMxZzARBgNVBAGMCKNhbgGmb3JuaWEwFjAUBgNVBAcMDVNBhbiBGcmFu
BgNVBAoMBE9rdGE9FDASBgNVBASMC1NTT1Byb3ZpZGVyMRyYwFAYDVQQDDA1zdGFja
MRwwGgYJKoZIhvcNAQkBFg1pbmZvQG9rdGEuY29tMIIBIjANBgkqhkiG9w0BAQEFAAO
CgKCAQEA0WnQeuc929vBskaMVV+Www3U7MvoooYQIB6MPL/4uiwaxTQndvyPLnVrZ
EaMz5G7ofEqF4sNtVuo1wkZpJ00/ABIWQHn33zVYM4+fKovoKo0T+EeYLCeEA/2gKv+Dq
2men27wf/8hBH3BCg/K0qg/+8XNiXiQyDDAgjxBRd07BtVfkc5n83fJ7l7WIG1NsFWagf4/
rtoMG6vB+Ujhx4sYZ0agUDgJ7bu3cxA7DzVpvc+mzkS60vckXIeic1czk6qnNNarq9SrayR
-----END CERTIFICATE-----
```

[Validate Certificate](#)

9. Validate your certificate by clicking **Validate Certificate**. You should see a green box with a success message. If you don't, make sure you copied and pasted the full text of the certificate.
10. To ensure uninterrupted access for your users, SOE must periodically update (rotate) security certificates from Entra ID. In the **SAML Signing Certificate** box in Entra ID, use the **Copy to clipboard** button to save the **Federation Metadata URL**. Paste that value into the SOE **Update certificates from federation metadata URL** field.

SAML Signing Certificate

| | |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------|
| Status | Active |
| Thumbprint | E193EE9A8D9C0F3AD197F944DD6FC9BCDA7A48A9 |
| Expiration | 6/29/2025, 2:16:23 PM |
| Notification Email | lallardr@4lgjyb.onmicrosoft.com |
| App Federation Metadata Url | https://login.microsoftonline.com/1020db16-6835... |
| Certificate (Base64) | Download |
| Certificate (Raw) | Download |
| Federation Metadata XML | Download |

Update certificates from federation metadata URL Optional

A FederationMetadata.xml file that can be downloaded anonymously over https

<https://login.microsoftonline.com/1020db16-6835-46af-a717-38465b83>

Identity provider certificates
Base64-Encoded public keys, used to verify SAML responses from the identity p

```
-----BEGIN CERTIFICATE-----
MIIDqjCCApKgAwIBAgIGAXV1mhojMA0GCSqGSIb3DQEBCwUAMIGVMQswCQYDVQQG
A1UECAwKQ2FsaWZvcn5pYTEwMBQGA1UEBwwNU2FuEzYyW5jaXNjbzENMAsGA1UE
MBIGA1UECwwLU1NPUHJvdmlkZXIxFjAUBgNVBAMMDXN0YWNrb3ZlcmZsb3cxHDAaBg
CQEWDWluZm9Ab2t0YS5jb20wHhcNMjA1MDI5MTgyMjU0WWhcNMzA1MDI5MTgyMzU0
A1UEBhMCVVMxZzARBgNVBAGMCKNhbgGmb3JuaWEwFjAUBgNVBAcMDVNBhbiBGcmFu
BgNVBAoMBE9rdGE9FDASBgNVBASMC1NTT1Byb3ZpZGVyMRyYwFAYDVQQDDA1zdGFja
MRwwGgYJKoZIhvcNAQkBFg1pbmZvQG9rdGEuY29tMIIBIjANBgkqhkiG9w0BAQEFAAO
CgKCAQEA0WnQeuc929vBskaMVV+Www3U7MvoooYQIB6MPL/4uiwaxTQndvyPLnVrZ
EaMz5G7ofEqF4sNtVuo1wkZpJ00/ABIWQHn33zVYM4+fKovoKo0T+EeYLCeEA/2gKv+Dq
2men27wf/8hBH3BCg/K0qg/+8XNiXiQyDDAgjxBRd07BtVfkc5n83fJ7l7WIG1NsFWagf4/
rtoMG6vB+Ujhx4sYZ0agUDgJ7bu3cxA7DzVpvc+mzkS60vckXIeic1czk6qnNNarq9SrayR
-----END CERTIFICATE-----
```

NOTE: Though the **Update certificates from federation metadata URL** field shows "Optional", it is required for Entra ID. Because Microsoft frequently rotates certificates, your users will be unable to log in if this URL is not set.

Test and save your SAML configuration

To complete the SSO setup, click **Save Settings**.

When saving settings, SOE will first perform an authentication test. If the test succeeds, SOE will apply your new authentication settings. Logged-in users stay logged in, as all active user sessions remain valid.

If the test fails, SOE will not apply the authentication settings. You'll stay on the SAML settings page so you can troubleshoot and correct problems.

This test acts as a safety net to keep invalid authentication settings from locking users (yourself included) out of your site. If you do find your users locked out of your site, reach out to Stack Overflow product support for help.

You can also click **Test currently saved SAML configuration** to display technical details about your SAML authentication. You'll find these helpful for understanding what information your IdP and SOE exchange. This is also useful when troubleshooting.

Save settings

Additional links

Test currently saved SAML configuration

- [Set up additional Access Rules](#)
- [Download SAML 2.0 EntityDescriptor that can be imported into Identity Provider \(IdP\)](#)
- [Parse SAML 2.0 EntityDescriptor from Identity Provider \(IdP\)](#)

Troubleshooting

Properly configuring SAML authentication can be tricky. For more information on troubleshooting, see the [SAML Authentication Troubleshooting](#) article.