

Configure Single Sign-on (SSO) with Duo Security

### Set up Stack Overflow for Teams Enterprise for SAML SSO authentication with Duo Security.



#### 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**

Stack Overflow for Teams Enterprise (SOE) integrates with Duo Security for SAML 2.0 authentication. You can learn more about SAML in our SAML 2.0 Overview document.

To configure Duo Security authentication, you'll first need to have configured a SAML Identity Provider to provide primary authentication for Duo Single Sign-On. Learn more about configuring the SAML Identity Provider with Duo Single Sign-On.

When setting up SAML authentication, you'll configure your SOE site and Duo Security in a back-and-forth process. We recommend having a browser tab or window open to each site.

#### THIS ARTICLE APPLIES TO STACK OVERFLOW FOR TEAMS ENTERPRISE ONLY.

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

## Protect an application in Duo Security

- 1. Sign in to your Duo Security administration panel.
- 2. On the left-hand side of the screen, click **Applications** then **Protect an Application**.
- 3. Enter "generic SAML" in the search bar. Locate the "Generic SAML Service Provider" option and click Protect.

on			
Protect an Application			
Protection Type			
2FA with SSO hosted by Duo (Single Sign-On)	Documentation 🗗	Protect	
	on Frotection Type 2FA with SSO hosted by Duo (Single Sign-On)	on  Tion  Protection Type  2FA with SSO hosted by Duo (Single Sign-On) Documentation Cf	

The main SAML configuration screen will appear. It includes the **Entity ID** and **Single Sign-On URL** fields you'll enter later into SOE.

Successfully added Generic SAML Service Provider - Single Sign-On to protected applications. Add another.			
Dashboard > Applications > Generic SAML Service Provider - Single Sign-On         Generic SAML Service Provider - Single Sign-On         Authentication Log   memore Application         See the Generic SSO documentation 1% to integrate Duo into your SAMI -enabled service provider.			
Metadata			
Entity ID	https://sso-e323154e.sso.duosecurity.com/saml2/sp/DIRL54708H1WYEL03VII/metac Copy		
Single Sign-On URL	https://sso-e323154e.sso.duosecurity.com/saml2/sp/DIRL54708H1WYEL03VII/sso Copy		
Single Log-Out URL	https://sso-e323154e.sso.duosecurity.com/saml2/sp/DIRL54708H1WYEL03VII/slo Copy		
Motodoto UDI	https://cca_a222154a.cca.duacacurity.com/cami2/cp/DIPL54708H1M/VEL02\/II/matar		

# Configure settings in SOE

In a separate browser tab or window, log into SOE as an admin. Click **Admin settings** in the left-hand menu, then **Authentication**. Click **Use SAML 2.0** (if not already enabled).

## SAML 2.0 settings

On the SAML 2.0 settings page, enter the following information.

• Assertion consumer service URL Enter the SAML 2.0 post URL of your SOE site (https://[your\_site]/auth/saml2/post).

- Single sign-on service URL Copy the Single Sign-On URL value from Duo Security and paste it here.
- Issuer Copy the Entity ID value from Duo Security and paste it here.
- Audience restriction Enter any value (we suggest StackOverflowEnterprise). You'll enter this into Duo Security in a later step.
- Use Subject/NameID as user identifier Leave this option checked.

Dashboard	Currently authenticating using SAML 2.0
ACCESS MANAGEMENT	
Users and permissions	SAML 2.0 settings
User groups	6, 1112 2.0 Settings
Authentication	Assertion consumer service URL
SCIM	This is the /auth/saml2/post URL of your Stack Overflow Enterprise instance. Please make sure the Domain Name (FQDN) is correct. e.g., https://support-test-teams.stackenterprise.co/auth/saml2/post
Teams	https://[your_site]/auth/saml2/post
Teams sync	
CONTENT	Single sign-on service URL Your identity provider's login URL
Articles	https://sso-e321573e.sso.duosecurity.com/saml2/sp/DIRL5708H1WYEL03VII/sso
Unified search	
Content Health	Single sign-on service protocol binding
Communities	urn:oasis:names:tc:SAML:2.0:bindings:HTTP-POST
INTEGRATION AND APPS	HTTP-Redirect binding: Include SAML encoding parameter in query string

# **Configure settings in Duo Security**

### Service provider

Next, you'll configure settings in the Service Provider section in Duo Security.

- Metadata Discovery Leave set to None.
- Entity ID Copy the Stack Overflow for Teams Audience Restriction value you created earlier (for example: StackOverflowEnterprise) and paste it here.
- Assertion Consumer Service (ACS) URL Enter the SAML 2.0 post URL of your SOE site (https://[your\_site]/auth/saml2/post).

Leave the remaining fields from this section blank.

### SAML response

In the SAML Response section of the page, set the following values.

NameID format Set this to the option that ends in :persistent (for example: urn:oasis:names:tc:SAML:2.0:nameid-format:persistent).

SAML Response		
NameID format *	urn:oasis:names:tc:SAML:2.0:nameid-format:persistent	-
	The format that specifies how the NamelD is sent to the service provider.	

- **NameID attribute** Enter a user identifier that will never change (for example: login or uid). Email address is not a good choice for the user identifier, as email addresses can change.
- Signature algorithm Select SHA256.
- Signing options Select Sign response and Sign assertion.
- Assertion encryption Leave this unselected.

### SAML attributes

In SAML 2.0, attributes (also called "assertions") are the fields that carry user information. SOE requires one attribute for the user's email address and another for display name.

- 1. Use the green (+) button to add <Display Name> and <Email Address> attributes in the IdP Attribute column.
- 2. In the corresponding SAML Response Attribute fields, enter displayname and email.

Map attributes	IdP Attribute		SAML Response Attribute	
	<display name=""></display>	•	displayname	$\Theta$
	<email address=""></email>	•	emailaddress	$\ominus$ $\oplus$
	Map the values of an IdP attrib	ute to an	other attribute name to be included in	the SAML respon

3. To make the login process clearer to your users, assign a name to the application (for example: **Stack Overflow**). Users with Duo Push two-factor authentication will see the application name.

Settings	
Туре	Generic SAML Service Provider - Single Sign-On
Name	Stack Overflow Duo Push users will see this when approving transactions.

4. Click **Save** at the bottom of the page to complete the Duo Security configuration.

# Finalize SOE setup

## SAML attributes

In SOE, copy and paste the SAML response attributes from Duo into the corresponding **Display name assertion** and **Email** address assertion fields.



## Certificate

1. From the Downloads section in Duo Security, click **Download certificate**. Your browser will download a .crt file.

Downloads		
Certificate	Download certificate	Expires: 01-19-2038
SAML Metadata	Download XML	

- 2. Open the .crt with a text editor (such as Notepad).
- 3. Copy the entire text of the certificate, including "-----BEGIN CERTIFICATE-----" and "-----END CERTIFICATE-----".

\*Generic SAML Service Provider - Single Sign-On (1).crt - Notepad File Edit Format View Help ----BEGIN CERTIFICATE-----MIIDCzCCAfOgAwIBAgIUeRs18T29wcmzqjdA5eVqSn5BQwIwDQYJKoZIhvcNAQEL BQAwNjEVMBMGA1UECgwMRHVvIFN1Y3VyaXR5MR0wGwYDVQQDDBRESUVYNzRQTUJX UzVTWTNJNFQ1SjAeFw0yMzA5MDgwOTM0MzFaFw0zODAxMTkwMzE0MDdaMDYxFTAT BgNVBAoMDER1byBTZWN1cml0eTEdMBsGA1UEAwwURElFWDc0UE1CV1M1U1kzSTRU NUowggEiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEKAoIBAQC+ul9vL6NltcdJHS7U bRUMGK5g5ElZDrr30CdZDl/nH9sWta2/+RakSa7En8oDPUYwOHPRIt+aBwEJABEO 8DTn9e2I6Ugp/OCtaqB5hYeWwzvRdQBeojl+zWD5UXp+skme9lPgYpY2NH6rVeha ZrZn1u93b49ePgM7dYBmiH1efukL/lKfyKSRUQw3ySu3yyORBxOmWEbE50JDZODa i6eFdHt8vSM840sfLSk2+LgGQ0B0KHfu6MBaiiw4IZ+Jeaf1pUefoUYCj31XL5By +0wcI1kjKteHvRWLwyT9es7hdgXX6Rd0mPU7FUFSXNTLzL3MlapSQ9Qu3+kwEoEt XySxAgMBAAGjEzARMA8GA1UdEwEB/wOFMAMBAf8wDOYJKoZIhvcNAQELBOADggEB ADSoPKvwfhZGQXhwN10JbNOUnGb/BUNqm44435qh0E+SeDLlE/Wsel4LqhJrnVUg 7ZeAC08LPSXC4kgeQIFEVDW/1NRv+dFVa518h0YRdDMOJ/s7cdSFUFjo45y4VfPC p7FnUn1U4sbLo1FjjHyxjt40tQzj11DI5e4YSut/VrqDesrDumasDu2XLQ4r0HvL tzdaUP0YjIRV2WxPIVbhff0oeOFOaMpirrj9yt95DW6I5hUMp2cshZiyRe19ZzQj ZHd1x4jlm0iW/30f9fx0CLwYM111DfxNYbgwcVe5gZIjIK4RamPR60ww3ov9kwPt no7v5SB8tbf1Fio0Wf9nkz0= ----END CERTIFICATE-----

- 4. In SOE, click Add certificate and paste the copied text into the text box.
- 5. Click Validate certificate to check that the certificate is valid. You should see a green box with a success message.
- 6. Click **Save Settings** to save the SAML configuration.

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.

Users should now be able to log in to your SOE instance with their SSO credentials.