



Duo Azure AD

Integration Guide





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Introduction

Duo multi-factor authentication adds an additional security layer between **Envi** and any **SAML 2.0** identity provider.

Duo protects your applications by using a second source of validation, like a phone or token, to verify user identity before granting access.

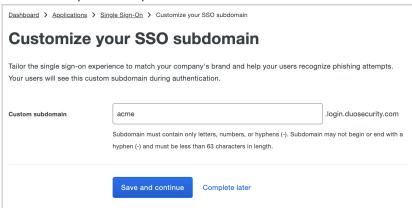
This step-by-step guide explains how to configure **Duo Single Sign-On** and **Azure AD** connection with your **Envi** account.



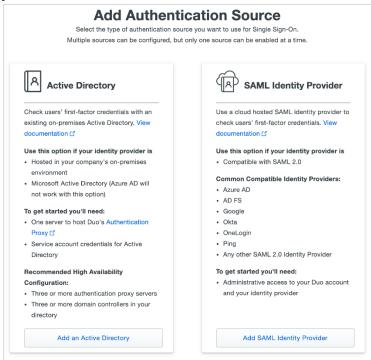
Duo Single Sign-On and Azure AD Configuration

To add the **Duo MFA** layer to the **SAML 2.0** connection with your identity provider, perform the following steps:

- 1. Sign in to Duo Admin Panel.
- 2. In the main menu, select **Single Sign-On**.
- 3. On the **Single Sign-On** page, review the information. If you agree to the terms, select the checkbox, and select **Activate and Start Setup**.
- 4. On the **Customize your SSO subdomain** page, perform the following steps:
 - a. Specify a subdomain you would like your users to see while signing in to **Duo** Single Sign-On. For example, if you enter acme, users will see
 acme.login.duosecurity.com in the URL.
 - b. Select **Save and continue** to use the desired subdomain or select **Complete later** to skip this step for now.



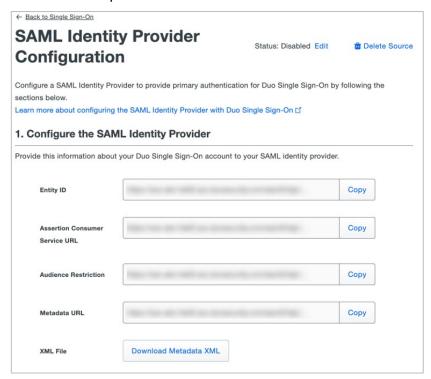
5. On the **Add Authentication Source** page, select **Add SAML Identity Provider** as your authentication source.





- 6. Go to the Single Sign-On Configuration page and proceed to the section,
 - 1. Configure your SAML Identity Provider. Here, you can either select Download Metadata XML or Copy the data from the provided boxes.

Note: You will need the **Duo Single Sign-On** metadata information to provide it for your **SAML Identity Provider** and to configure **Duo Single Sign-On** as a service provider.





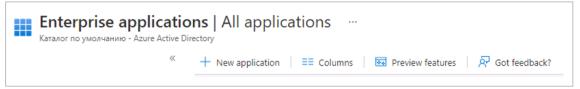
Azure AD Identity Provider Configuration

To configure **Azure AD IdP**, perform the following steps:

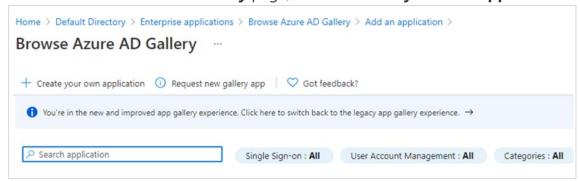
1. Sign in to your Microsoft Azure administrative portal.

Note: If you're already using an **SSO** configuration for **Envi**, then open it up and you can skip steps 3-5.

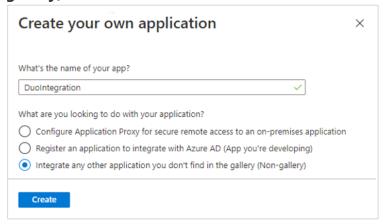
- 2. Go to the menu and select **Azure Active Directory**.
- 3. On the **Enterprise Applications** page, select **+New application**.



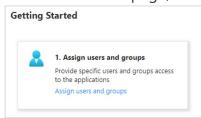
4. On the Browse Azure AD Gallery page, select +Create your own application.



5. On the **Create your own application** page, enter a name for the new application, then select **Integrate any other application you don't find in the gallery (Nongallery)**, and **Create**.

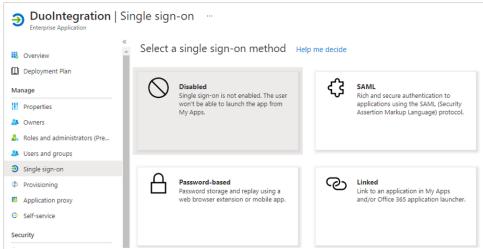


- 6. If the application is new, you need to assign users and groups that will use the application. To do that, perform the following steps:
 - a. On the **Overview** page, under **Getting Started**, select **Assign users and groups**.

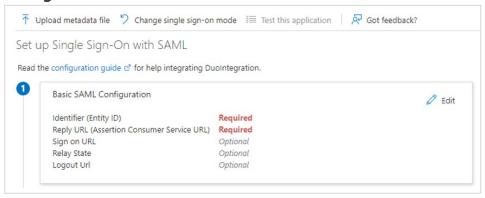




- Select +Add users/group and start selecting users and groups that should have access to sign in with Azure to Duo Single Sign-On.
- c. After you have selected users and groups, select **Assign** at the bottom of the page.
- 7. In the menu, go to the **Manage** section and select **Single sign-on**, on the **Select a single sign-on method** page, select **SAML**.

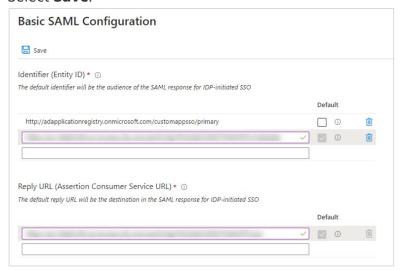


8. On the **Set up Single Sign-On with SAML** page, select **Edit** in the **Basic SAML Configuration** section.





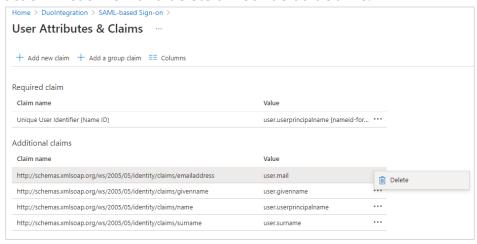
- 9. On the **Basic SAML Configuration** page, perform the following steps:
 - a. In the **Identifier (Entity ID)** box, enter **Entity ID** obtained from **Duo Admin Panel** (the <u>Duo Single Sign-On and Azure AD Configuration</u> section, step 6).
 - b. In the **Reply URL (Assertion Consumer Service URL)** box, enter **Assertion Consumer Service URL** obtained from **Duo Admin Panel** (step 6).
 - c. Leave other boxes as is by default.
 - d. Select Save.



10. On the **Set up Single Sign-On with SAML** page, in the **User Attributes & Claims** section, select **Edit**.

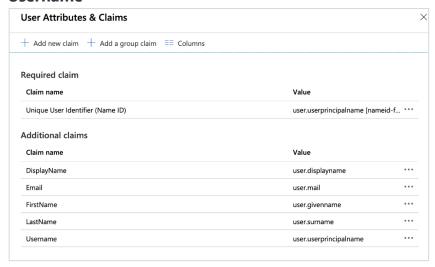


11. In **Additional Claims**, select the ellipsis icon (...) and then **Delete**. Perform the same action in each row and delete all four default claims.





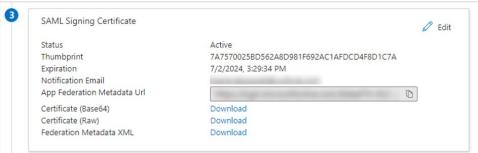
- 12. Go to the top of the page and select **+Add new claim**. Add the five additional claims (the **Additional claims** column on the screenshot):
 - DisplayName
 - Email
 - FirstName
 - LastName
 - Username



13. Once you have added all five claims, select the **X** button (top right-hand side of the page).

Note: Duo Single Sign-On is not configured yet, so do **NOT** select **Test** because it will fail.

14. On the **Set up Single Sign-On with SAML** page, in **SAML Signing Certificate**, select **Download** next to **Certificate (Base64)**. Keep this file for later use.

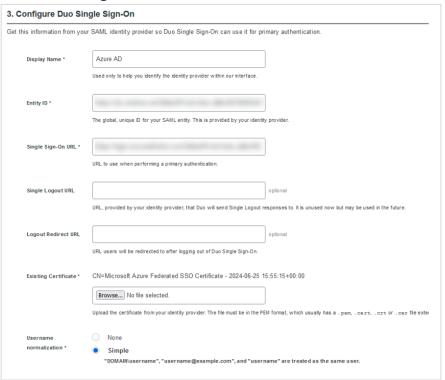


15. In **Set up YourAppName**, you will find metadata information that you need to provide for **Duo Single Sign-On**.





- 16. Go back to **Duo Admin Panel** (the <u>Duo Single Sign-On and Azure AD Configuration</u> section, step 6), move through the **Single Sign-On Configuration** page to the section, **3. Configure Duo Single Sign-On**, and perform the following steps:
 - a. In the **Display Name** box, enter a name that helps you easily identify the identity provider.
 - b. In the **Entity ID** box, enter **Azure AD Identifier** from **Azure** (the <u>Azure AD Identity Provider Configuration</u> section, step 15)
 - c. In the **Single Sign-On URL** box, enter **Login URL** from **Azure** (step 15).
 - d. Leave the Single Logout URL and Logout Redirect URL boxes empty.
 - e. In the **Certificate** section, upload the certificate that you downloaded (step 15).
 - f. In **Username normalization**, set **Simple**.
 - g. **Save** the changes.



Now, the **Duo Single Sign-On** configuration is complete.



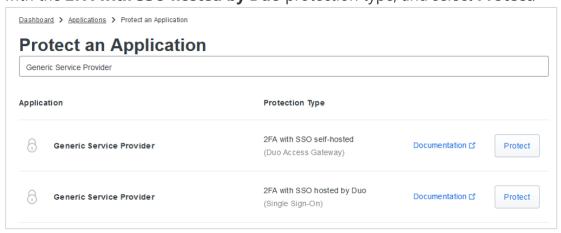
Create a Cloud Application in Duo

Once you have completed the **Duo Single Sign-On** configuration, let us proceed with the creation of the **Service Provider** application in **Duo**.

- 1. Sign in to **Duo Admin Panel**.
- 2. In the main menu, select **Applications**.
- 3. Select **Protect an Application** and find **Generic Service Provider** with the **2FA** with **SSO** protection type hosted by **Duo (Single Sign-On)** in the applications list.



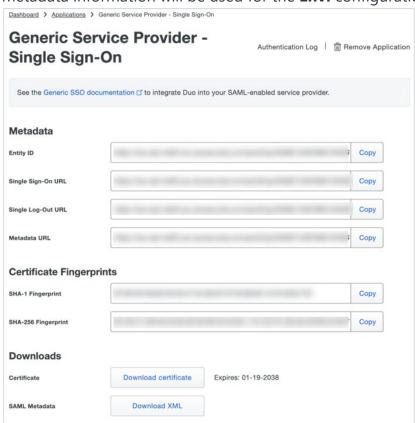
- 4. Select **Protect** to start configuring **Generic Service Provider**.
- 5. The **Protect an Application** page lists different types of services you can protect with **Duo**. The **Protection Type** column indicates how **Duo** protects a specific application. In the search box, enter **Generic Service Provider**, then select the item with the **2FA with SSO hosted by Duo** protection type, and select **Protect**.





Then, you will be redirected to the details page of an application to protect.
 In Metadata, you can get SAML identity provider information about Duo Single Sign-On to provide it for your service provider.

In **Downloads**, select either **Download XML** or **Copy** the data from the boxes. This metadata information will be used for the **Envi** configuration later.

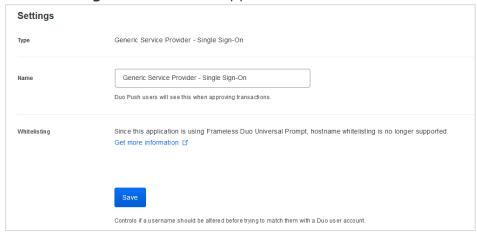


- 7. Go to **Service Provider** and fill in the information about the **Envi** application:
 - a. In the **Entity ID** box, enter the base URL of the **Envi** application + /Account (for example, https://envi_domain_name/Account).
 - b. In the Assertion Consumer Service (ACS) URL box, enter the base URL of the Envi application + /Account/Acs (for example, https://envi_domain_name/Account/Acs).
 - c. Leave other boxes in this section empty.





8. Go to **Settings**, then enter the application **Name** and select **Save**.

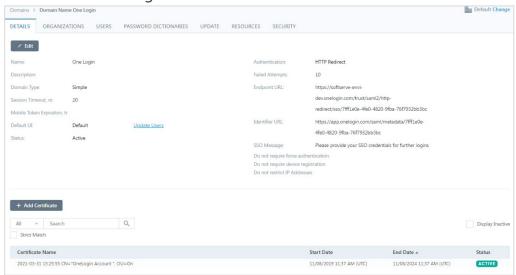




Envi Configuration

To synchronize **Duo Single Sign-On** and **Azure AD** connection with your **Envi** account, perform the following steps:

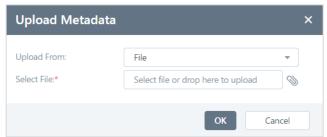
- 1. Sing in to the **Envi** application.
- 2. Go to **My Profile** > **My Domain** > **Details** tab. Then, in the **Certificates** section deactivate all existing active certificates.



3. Select **Edit** and then **Upload metadata**.



- 4. In the **Upload Metadata** pop-up, perform the following steps:
 - a. In the **Upload From** dropdown, select **File**.
 - b. In the **Select File** box, enter the path to the **Duo** metadata file location (the <u>Create a Cloud Application in Duo</u> section, step 6).
 - c. Select OK.





Note: Make sure that both **Endpoint URL** and **Identifier URL** are populated with the new values and **Certificates** section is populated with new certificates.



Now, you can sign in to the **Envi** application using **Duo Azure AD**.