Configure Azure AD with Clearstory for SSO

To login with your Azure AD users via a single sign on experience, Clearstory's authentication system must be configured to detect specific email address domains so that it can redirect users to the appropriate login portals.

Additionally, these configurations include applications on the identity provider (IdP) side. Customers can assign their users access to these applications to control access as they see fit. Clearstory simply needs a few pieces of information from these registered applications in order to be configured.

This process doesn't take long at all. It is a similar process regardless of the IdP or protocol being used. Clearstory is compatible with various providers including custom OpenID or SAML integrations.

To get started with Azure AD, you will need to create an App registration in Microsoft Azure AD. Complete information can be found here: <u>https://learn.microsoft.com/en-us/azure/active-directory/develop/quickstart-register-app</u>

There are 4 main pieces of information we are concerned with here (though feel free to adjust branding and other settings as needed by your organization).

What you'll need from Clearstory

You will need one primary piece of information here and that is the redirect URI.

Redirect URI

Under **"Authentication > Platform configurations"** you will want to ensure that a "Web" platform is added with the following "Redirect URIs" set: <u>https://auth.clearstory.build/login/callback</u>

Home > Default Directory App registrat	ions > Extracker
∋ Extracker Authention	cation 🖈 …
Overview	Platform configurations
🗳 Quickstart	
🚀 Integration assistant	Depending on the platform or device this application is targeting, additional configuration may be required such as redirect URIs, specific authentication settings, or fields specific to the platform.
Manage	+ Add a platform
🔤 Branding & properties	
Authentication	∧ Web Quickstart Docs [2]
📍 Certificates & secrets	Redirect URIs
Token configuration	The URIs we will accept as destinations when returning authentication responses (tokens) after successfully authenticating or signing out users. The redirect URI you
→ API permissions	send in the request to the login server should match one instea here. Also referred to as reply ones, team more about request onis and their restrictions of
🔷 Expose an API	https://auth.extracker.com/login/callback
👢 App roles	Add URI
A Owners	

What Clearstory will need from you

Clearstory will need the following to configure the connection. This allows our system to verify and work with your Azure AD application.

- Azure AD Domain
- Client ID
- Client Secret
- Is your application for a single tenant or multi-tenant?

Azure AD Domain

We will need to know your Azure AD domain name. This is to perform "home realm discovery" where your email address domain is matched to the configured SSO connection in our system.

Note: We can also configure multiple domains for this connection. You are not limited to just one.

Client ID

Next, we will need to know the client ID of this registered application. This can be found in the "Overview" screen for your application.

```
Home > Default Directory | App registrations >
```

🔣 Extracker 🖈 …		
₽ Search «	📋 Delete ⊕Endpoints	🛛 🐱 Preview features
Sverview		
🗳 Quickstart		
 Integration accistant 	Display name	: <u>Extracker</u>
	Application (client) ID	: e2d176b0-3f2c-40b3-b720-ae7089992665

Client Secret

Last, you will need to create a client secret for us to use. Under the **"Certificates & secrets"** section you can create a client secret. Be sure to copy this value when it is displayed as they do not display it again (you would just need to create a new one). We need this **value** to configure our system (not the Secret ID, but the "Value").

Note: These expire. You can choose the expiration date, but they may not be able to remain valid forever (and it's also not a best practice to do so). This means you will need to inform us about new secrets when you create a new one to use due to the expiration of your previous.

Home > Default Directory | App registrations > Extracker

💡 Extracker Cert	ificat	es & secrets	\$				
₽ Search	«	♂ Got feedback?					
Overview		Credentials enable	Credentials enable confidential applications to identify themselves to the authentication service when receiving tokens at a web address				
🗳 Quickstart		scheme). For a higher level of assurance, we recommend using a certificate (instead of a client secret) as a credential.					
🚀 Integration assistant							
Manage		Application re	egistration certificates, s	ecrets and federated credentia	ls can be found in the tabs below.		
🔤 Branding & properties							
Authentication		Certificates (0)	Client secrets (1)	Federated credentials (0))		
📍 Certificates & secrets		A secret string tha	t the application uses	to prove its identity when i	requesting a token. Also can be r	eferred to as application password	
Token configuration		+ New client c	ocret				
API permissions		+ New client secret					
🙆 Expose an API		Description		Expires	Value (i)	Secret ID	
App roles		auth0		9/20/2023	TM9*******	52124381-fc43	

Additional Notes

The default settings that Azure AD app registrations have is perfectly fine for our needs. Clearstory only needs the most basic of information about your users in order to make the SSO integration work.

Clearstory's system relies on email address to match identities and users. If you are enabling SSO after previously having some users login using an email and password set with Clearstory, those users will have the same access as they had previously so long as the email address matches.

The same is true if your users use other SSO providers such as Procore for example. Our system has one user with multiple *identities* matched based on email address.

By default, app registrations have Microsoft Graph's "User.Read" permission as illustrated in the following screenshot.

Home > Default Directory App registrati	ions > Extracker						
	issions 🖈 …						
₽ Search «	💍 Refresh 🗖 Got feedbad	:k?					
Overview							
📣 Quickstart	Station Navambar 9th 2020 and user will no longer be able to grant concent to neuky registered multitenant appr without verified publichers. Add MONID to verify publicher						
🚀 Integration assistant	Starting November 50, 2020 er	to users will no i	onger be able to grant consent to newly registere	eu multicentant apps without venneu publishers. <u>Huu inier i ib to ven</u>	<u>iy publisher</u>		
Manage	The "Admin consent required"	column shows t	he default value for an organization. However, us	ser consent can be customized per permission, user, or app. This col	umn may not reflect the value		
🧮 Branding & properties	•		, , , , , , , , , , , , , , , , , , ,		,		
Authentication	Configured permissions						
📍 Certificates & secrets	Applications are authorized to call APIs when they are granted permissions by users/admins as part of the consent process. The list of configured permissions should include all the permissions the application needs. Learn more about permissions and consent						
Token configuration							
➔ API permissions	🕂 Add a permission 🗸 Gran	t admin conser	nt for Default Directory				
🙆 Expose an API	API / Permissions name	Туре	Description	Admin consent req Status			
App roles	∽ Microsoft Graph (1)						
A Owners	User.Read	Delegated	Sign in and read user profile	No			
🍰 Roles and administrators							
0 Manifest	To view and manage permissions a	ind user consei	nt, try Enterprise applications.				

You must ensure that your directory users have email addresses set in their profile. Otherwise, our system will not be able to retrieve this information from the federated identity and will not be able to match the email address on our end or register the user since we will be missing this value.

Important: If your application is set up so that it must be approved by an administrator before using it, then the first time a user logs in this approval request will be sent. Users will not be able to login to Clearstory until an administrator for your Azure AD account approves the request. This may require some internal coordination, so your users are not stuck for an extended period.

Home > Users > Test User >

Test User

Properties

🕐 Refresh 🛛 🖗 Got feedback?

Sign in sessions valid from date time

2022-09-20T17:08:40Z

Authorization info

Edit Certificate user IDs

+ Add manager

Job title

Company name

Department

Employee ID

Employee type

Employee hire date

Office location

Manager

Street address

City

State or province

ZIP or postal code

Country or region

Business phone

Mobile phone

Email

Other emails

Fax number

Mail nickname

test-user

+ Add email

test-user@azure.extracker.co

Each time a user logs into Clearstory, this information is synced with our authentication system, though users are still asked to set their first and last name when onboarding. The Clearstory application is not currently syncing this information, but users can update their name at any time from their profile settings in the Clearstory app.

Changing Email Addresses

Users, of course, will not be able to change their email address from the Clearstory application when using SSO. For help with linking a different email address (or identity) with an existing user in Clearstory, please contact support. Clearstory will be able to make the necessary adjustments to ensure your users continue to have access to their existing Clearstory account.

Multiple Domain Names

If you have multiple domains, we can configure the login experience to redirect anyone providing an email address with those domains. You are not limited to just one for the purposes of SSO and redirecting to your login portal. However, it's important to note that Clearstory's system will suggest users to join companies based on their email domain.

Users may need to be added from Clearstory's application under the "Settings > Manager Users" section. When users are added here, they will already have a user record in Clearstory's database that has the associated company linked as well as the email address. This way, when your user logs in with SSO, they will immediately be linked to the proper user account in Clearstory even despite having a different email domain.