Microsoft Entra ID Data Source Documentation



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Overview

Singulr discovers Applications, Users and User Attributes from Microsoft Entra ID (previously known as Azure Active Directory). We require read access to Entra's applications and users. This document specifies the exact permissions and resources needed to generate the required credentials as well as the instructions to add Entra as a data source to Singulr Al.

The key steps involved include:

- · Register the Singulr-Application in the Azure Tenant with specified permissions and create a client-id and clientsecret. Please note you will need to have <u>Cloud Application Administrator</u> role for registering the application.
- Use the tenant-id, client-id and client-secret to add the Entra data source to Singulr

| Resource | Use-Case | Permission name | Permission Type | Admin Consent Required | References |
|---------------|---|----------------------------------|--------------------|---------------------------|--|
| Applications | Required to read basic application details such as name, domain, homePageUrl etc. | Application.Read.All | Application | Yes | https://learn.microsoft.com/ us/graph/permissions- reference#userreadall |
| Users | Required to read user details such as name, title, department, country etc | User.Read.All | Application | Yes | https://learn.microsoft.com/ us/graph/permissions- reference#userreadall |
| Devices | Required to read the endpoint device associated with a user | Device.Read.All | Application | Yes | https://learn.microsoft.com/ us/graph/permissions- reference#devicereadall |
| Multi-tenants | Required to list the available tenants in the Organization | MultiTenantOrganization.Read.All | Application | Yes | https://learn.microsoft.com/ us/graph/permissions- reference#devicereadall |

Register Singulr Application in Azure Tenant



Note: Move to Configure Permissions Sections, if Singulr Application is already registered in azure tenant.

To register the application, you can follow these general steps:

- 1. Sign in to the Microsoft Entra admin center as (at least) a Cloud Application Administrator.
- 2. If you have access to multiple tenants, use the **Settings** icon in the top menu to switch to the tenant in which you want to register the application from the **Directories + subscriptions** menu.

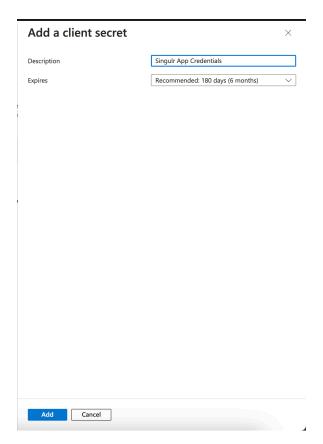


- 3. Browse to **Identity > Applications > App registrations** and select **New registration**.
- 4. Enter name of the application as Singulr
- 5. Select "Accounts in any organizational directory (Any Microsoft Entra ID tenant Multitenant)" as supported account-types.
- 6. Leave the optional field Redirect URI as empty.
- 7. Select Register to complete the initial app registration.
- 8. When registration finishes, the Microsoft Entra admin center displays the app registration's **Overview** pane. **Copy** the **Application (client) ID and Directory (tenant) Id** fields.

Add Credentials

To obtain client credentials for the app. Follow the steps below

- 1. In the Microsoft Entra admin center, in App registrations, select Singulr application.
- 2. Select Certificates & secrets > Client secrets > New client secret.
- 3. Add description as Singulr App Credentials.
- 4. Select expiration as 6 months.



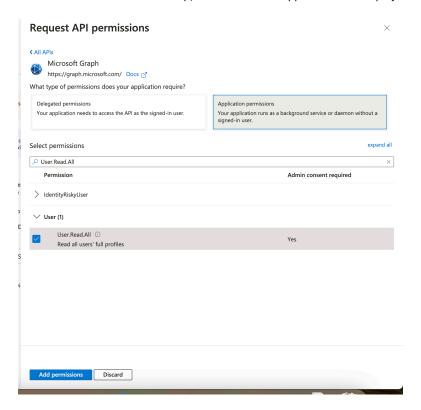
- 5. Select Add.
- 6. Copy the secret's value for configuring in data source.

Important: Be sure to copy the **Secret** and store it in a safe place. You will not be able to retrieve it later. If you need a new secret, you must reset the feed credentials.

Configure Permissions

This section covers steps to configure permission for Microsoft Entra Id.

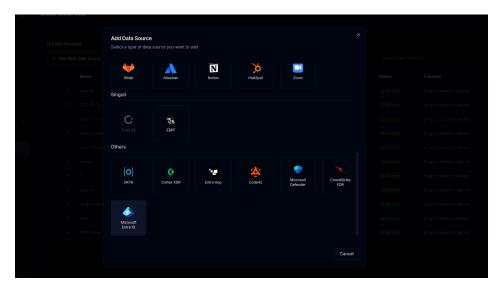
- 1. Expand Identity > Applications > select App registrations.
- 2. In the App registrations window, under the All applications tab, select Singulr app.
- 3. From the left pane of the window, under the **Manage** menu group, select **API permissions**. In the **Configured permissions** window, select **Add a permission**.
- 4. In the **Request API permissions** window, switch to the **APIs my organization uses** tab and search for Microsoft Graph. Select from the filtered result set to reveal the **Microsoft Graph** permissions window.
- 5. Select the Application permissions tab and add below permissions.
 - a. User.Read.All
 - b. Application.Read.All
 - c. Device.Read.All
 - d. MultiTenantOrganization.Read.All
- 6. Grant Admin consent to the newly added permissions (Admin access required). This may be required to be done across multiple tenants in a multi-tenant Entra setup, but this can be skipped for initial deployments.



Add Microsoft Entra ID Data source to Singulr

To add Microsoft Entra Id as a data source in the Singulr platform:

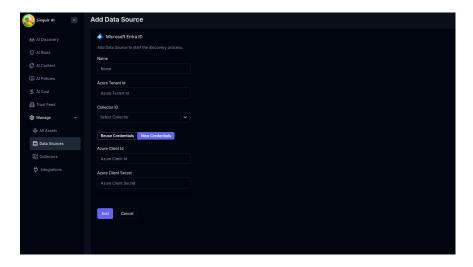
- 1. Log in to the Singulr platform.
- 2. Go to "Manage" in the left panel.
- 3. Navigate to "Data Sources" and click "Add New Data Source."
- 4. In the pop-up window, scroll down to the "Azure" section and click on Microsoft Entra Id.



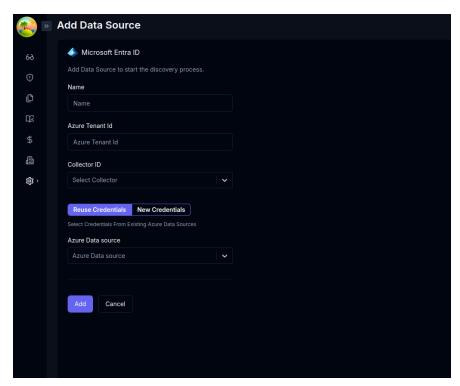
- 5. Fill in the following details as specified when a new feed is created in Okta:
 - Name: Enter a suitable name for this data source
 - Azure Tenant Id: Enter Directory (Tenant Id)
 - Collector ID: Select appropriate collector
- 6. You have option to either add new credentials or reuse credentials from an existing Datasource.

Option-1: Fill the below fields to add new credentials.

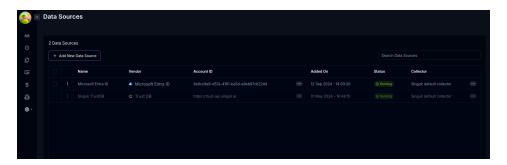
- Azure Client Key: Enter the Application (client) ID.
- Azure Client Secret: Enter the Application secret.



Option-2: Select an existing Azure Datasource for **reusing credentials**.



7. Click "Add" Once completed, a new entry for Microsoft Entra ID Id will appear on the Data Sources page.



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