



Directory Sync

By Axios Solutions • Sep 14, 2023

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Axios HQ can connect with your Azure Active Directory directory in two ways, via Enterprise Application or App Registration. Both setups offer slightly different configuration options and have varied restrictions.

Below are descriptions of the two connection types.

An overview of both setups

Some groups in Azure sync with either an Enterprise Application or App Registration, some with neither, others with both!

Which groups can sync	Enterprise Application	App Registration
All Azure groups	×	✓
Only select Azure groups	✓*	✓
Security groups	✓	✓
Non-security groups	×	✓
Nested groups	×	✓
Distribution lists	×	✓
Dynamic distribution groups	✓*	✓*
Dynamic distribution lists	×	×

* Items marked with an asterisk can only be accomplished if you have an Azure Premium License (P1 or higher.)

- You can [create a dynamic security group within Azure](#) as long as you have an Azure Premium P1 license (or higher.)

You can also complete [this survey](#) to help us recommend a setup to you!

A note on attributes

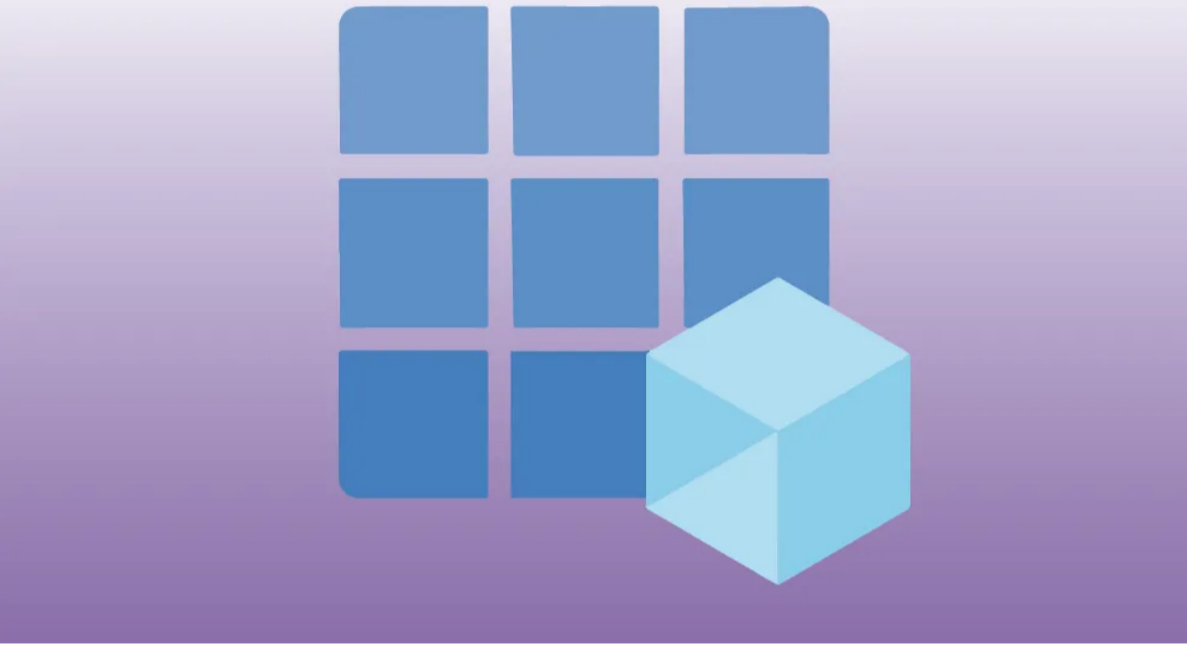


While members of your directory may have specific attributes mapped to their profile within Azure, Axios HQ only utilizes a small subset.

Your HQ users will only be able to search the directory for a group name, recipient's name, and any email address. Any groups you would like to create based on additional fields (ex: location, department, etc) will need to be built within your directory provider and synced into the platform as a group.

As we continue to grow, this may change! Our team is always working to expand our offerings, and additional attributes are highly requested!

App Registration



An App Registration allows you to sync your entire directory in one swoop, and syncs with nearly every group type.

- Nested groups maintain their nested structure.
- You are able to sync your entire directory. If you prefer to sync individual groups instead, you may sync up to a max of 15.
- Every group type within Azure is eligible to sync, except for dynamic distribution lists (not to be confused with dynamic distribution *groups*; see the chart in the first card for clarification.)
- App Registrations do not allow for individual users to sync: recipients must be part of a group in order to bring them into HQ.

This sync requires three main permission types:

GroupMember.Read.All, Group.Read.All, and User.Read.All

- This syncs directly with Axios HQ; we do not have a third party involved in this setup.
- While we have the technical capability to pull all attributes into the platform, we currently only look for:

Relevant Application Registration Attributes

Group Attributes	User Attributes
• id	• id
• displayName	• displayName
• description	• mail
• mail	• userPrincipalName
• visibility	• accountEnabled
• securityEnabled	
• groupTypes	

General time to update is on a weekly basis.

Instructions for this setup can be found [here](#), and if you would like to move forward with this option, we will send you a secure ShareFile link where you can upload the requirements.

Enterprise Application



An Enterprise Application (with a Premium License) allows you to pick and choose which individual groups to sync in Axios HQ.

- Enterprise Apps do not allow for nested groups/subgroups to sync in their nested structure, and your Azure admin will have to select each individual subgroup when provisioning.
- Your HQ users will need to repeat that process in the Axios HQ platform, selecting individual groups to build their audience.
- Directory members who are not part of a group can be synced as individuals and do not need to be part of a group.

General time to update is at the time of changes within Azure, with a maximum time of one hour.

This integration syncs with WorkOS, a sub-processor of HQ that is covered under our policies and agreements. WorkOS will facilitate the connection to the Enterprise App, and then Axios HQ will connect to WorkOS to finalize that pipeline.

- WorkOS may store additional attribute data sent over from your Enterprise App. While WorkOS does store this additional information, Axios HQ does not save or access it at this time.
- If you would like to limit the attributes that are synced**, you may do so. The following attributes are necessary to ensure functionality within the Axios HQ platform:

Required Enterprise Application Attributes

• userPrincipalName	• givenName
• Switch([IsSoftDeleted],, "False", "True", "True", "False")	• surname
• displayName	• Join(" ", [givenName], [surname])
• mail	• objectId

Instructions for setup can be found [here](#), and if you would like to move forward with this option, I will send you a custom link to begin your integration.

For any questions, please reach out to your account manager, or send us an email at help@axioshq.com.

Axios HQ partners with hundreds of clients, Fortune 500 companies, and small nonprofits alike. We have a dedicated security specialist on staff and have completed a SOC2 Type 2 audit.