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Sync with OneLogin

View in the help center <https://bitwarden.com/help/onelogin-directory/>

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This article will help you get started using Directory Connector to sync users and groups from your OneLogin directory to your Bitwarden organization.

Create API credentials

Directory Connector requires knowledge of OneLogin-generated API credentials to connect to your directory. Complete the following steps to create and obtain API credentials for use by Directory Connector:

1. From your OneLogin Administration portal (<https://yourdomain.onelogin.com/admin>), select to **Developers → API Credentials** from the navigation menu.
2. Select the **New Credential** button and give your credential a Bitwarden-specific name (for example, [bitwarden-dc](#)).
3. Select the **Read Users** radio button to give read permission for user fields, roles, and groups, and select **Save**.
4. Copy the generated **Client ID** and **Client Secret**. You may return to view these at any time.

Connect to your directory

Complete the following steps to configure Directory Connector to use your OneLogin directory:

1. Open the Directory Connector [desktop app](#).
2. Navigate to the **Settings** tab.
3. From the **Type** dropdown, select **OneLogin**.

The available fields in this section will change according to your selected type.
4. Enter the **Client ID** and **Client Secret** [obtained from OneLogin](#).
5. From the **Region** dropdown, select your region.

Configure sync options

Tip

When you're finished configuring, navigate to the **More** tab and select the **Clear Sync Cache** button to prevent potential conflicts with prior sync operations. For more information, see [Clear Sync Cache](#).

Complete the following steps to configure the settings used when syncing using Directory Connector:

- 1. Open the Directory Connector [desktop application](#).
- 2. Navigate to the **Settings** tab.
- 3. In the **Sync** section, configure the following options as desired:

Option	Description
Interval	Time between automatic sync checks (in minutes).
Remove disabled users during sync	Check this box to remove users from the Bitwarden organization that have been disabled in your directory.
Overwrite existing organization users based on current sync settings	Check this box to always perform a full sync and remove any users from the Bitwarden organization if they are not in the synced user set. Recommended for OneLogin directories.
More than 2000 users or groups are expected to sync	Check this box if you expect to sync 2000+ users or groups. If you don't check this box, Directory Connector will limit a sync at 2000 users or groups.
If a user has no email address, combine a username prefix with a suffix value to form an email	Check this box to form valid email options for users that do not have an email address. Users without real or formed email addresses will be skipped by Directory Connector. Formed Email = username + Email Suffix

Option	Description
Email Suffix	A string (<code>@example.com</code>) used to create a suffix for formed email addresses.
Sync users	Check this box to sync users to your organization. Checking this box will allow you to specify User Filters.
User Filter	See Specify sync filters .
Sync groups	Check this box to sync groups to your organization. Checking this box will allow you to specify Group Filters. Please be aware, Directory Connector uses OneLogin <code>role</code> values to create Bitwarden groups.
Group Filter	See Specify sync filters .

Specify sync filters

Use comma-separated lists to include or exclude from a sync based on user email or group.

 **Note**

Directory Connector will create Bitwarden groups based on OneLogin Roles, not OneLogin Groups.

User filters

To include or exclude specific users from a sync based on email address:

Bash

```
include:joe@example.com,bill@example.com,tom@example.com
```

Bash

```
exclude:joe@example.com,bill@example.com,tom@example.com
```

Group filters

Note

Syncing nested groups is not supported by OneLogin.

To include or exclude groups from a sync based on OneLogin roles:

Bash

```
include:Role A,Role B
```

Bash

```
exclude:Role A,Role B
```

Test a sync

Tip

Before testing or executing a sync, check that Directory Connector is connected to the right cloud server (e.g. US or EU) or self-hosted server. Learn how to do so with the [desktop app](#) or [CLI](#).

To test whether Directory Connector will successfully connect to your directory and return the desired users and groups, navigate to the **Dashboard** tab and select the **Test Now** button. If successful, users and groups will be printed to the Directory Connector window according to specified [sync options](#) and [filters](#):

TESTING

You can run tests to see how your directory and sync settings are working. Tests will not sync to your Bitwarden organization.



☐ Test since the last successful sync

Users

 cap@test.com
  hulksmash@test.com
  ironman76@test.com
  mjolnir_rocks@test.com

Disabled Users

No users to list.

Deleted Users

No users to list.

Groups

 Avengers

 cap@test.com
  hulksmash@test.com
  ironman76@test.com
  mjolnir_rocks@test.com

Test sync results

Start automatic sync

Once [sync options](#) and [filters](#) are configured as desired, you can begin syncing. Complete the following steps to start automatic sync with Directory Connector:

1. Open the Directory Connector [desktop app](#).
2. Navigate to the **Dashboard** tab.

3. In the **Sync** section, select the **Start Sync** button.

You may alternatively select the **Sync Now** button to execute a one-time manual sync.

Directory Connector will begin polling your directory based on the configured [sync options](#) and [filters](#).

If you exit or close the application, automatic sync will stop. To keep Directory Connector running in the background, minimize the application or hide it to the system tray.

Note

If you're on the Teams Starter plan, you are limited to 10 members. Directory Connector will display an error and stop syncing if you try to sync more than 10 members.

This plan is no longer available for purchase. This error does not apply to Teams plans.