

ADMIN CONSOLE > USER MANAGEMENT >

# JumpCloud SCIM Integration

View in the help center:

<https://bitwarden.com/help/jumpcloud-scim-integration/>

## JumpCloud SCIM Integration

System for cross-domain identity management (SCIM) can be used to automatically provision and de-provision members and groups in your Bitwarden organization.

### Note

SCIM Integrations are available for **Teams and Enterprise organizations**. Customers not using a SCIM-compatible identity provider may consider using [Directory Connector](#) as an alternative means of provisioning.

This article will help you configure a SCIM integration with JumpCloud. Configuration involves working simultaneously with the Bitwarden web vault and JumpCloud Portal. As you proceed, we recommend having both readily available and completing steps in the order they are documented.

## Enable SCIM

### Note

**Are you self-hosting Bitwarden?** If so, complete [these steps to enable SCIM for your server](#) before proceeding.

To start your SCIM integration, open the Admin Console and navigate to **Settings** → **SCIM provisioning**:

The screenshot shows the Bitwarden Admin Console interface. On the left is a sidebar menu with options: My Organization, Collections, Members, Groups, Reporting, Billing, and Settings. The 'Settings' menu is expanded, showing sub-options: Organization info, Policies, Two-step login, Import data, Export vault, Domain verification, Single sign-on, Device approvals, and SCIM provisioning (which is highlighted). The main content area is titled 'SCIM provisioning' and contains the following elements: a sub-header 'Automatically provision users and groups with your preferred identity provider via SCIM provisioning', a checked 'Enable SCIM' checkbox with the instruction 'Set up your preferred identity provider by configuring the URL and SCIM API Key', a 'SCIM URL' input field containing a masked URL, a 'SCIM API key' input field containing a masked key, a warning note 'This API key has access to manage users within your organization. It should be kept secret.', and a blue 'Save' button.

SCIM provisioning

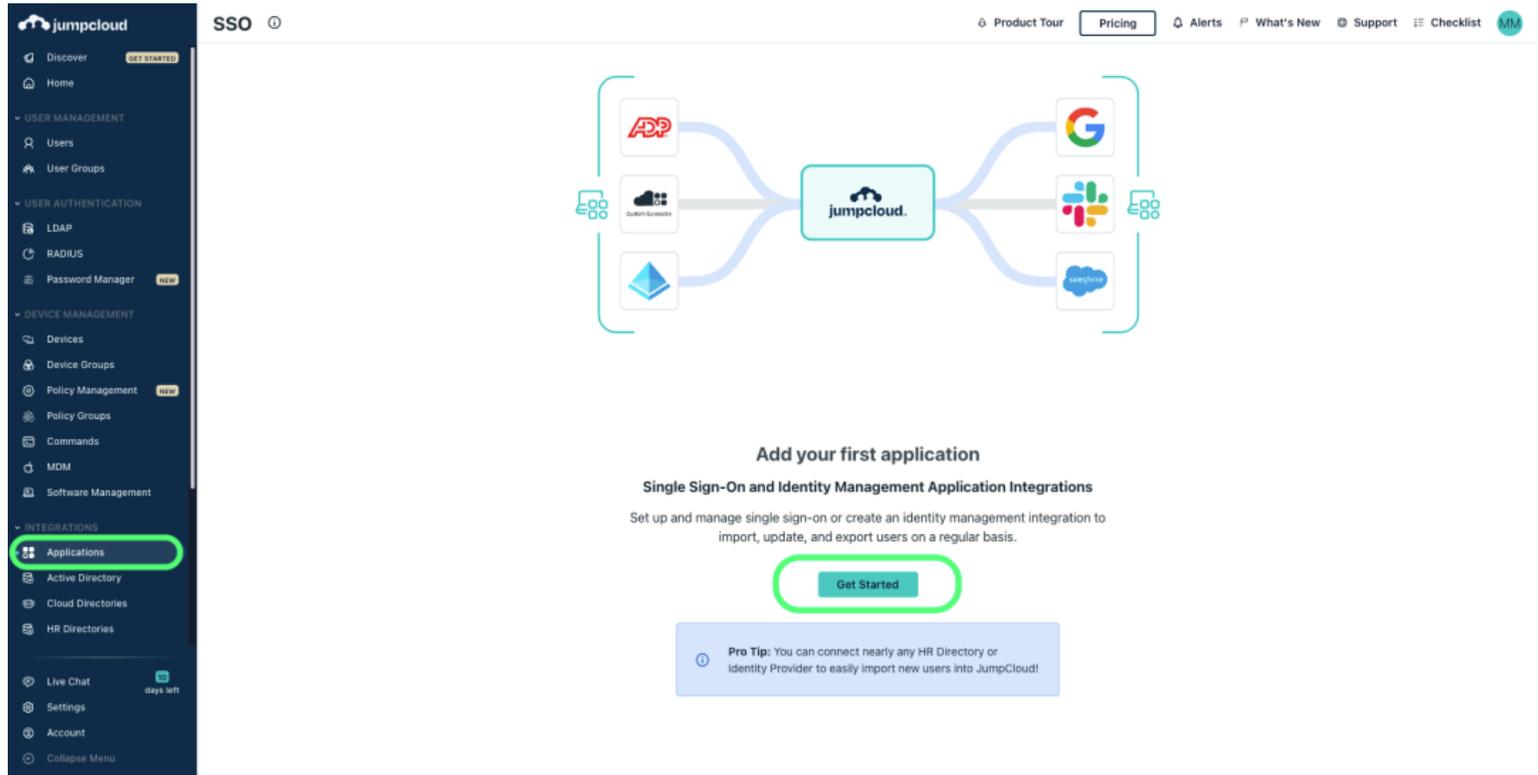
Select the **Enable SCIM** checkbox and take note of your **SCIM URL** and **SCIM API Key**. You will need to use both values in a later step.

## Create a JumpCloud app

### Tip

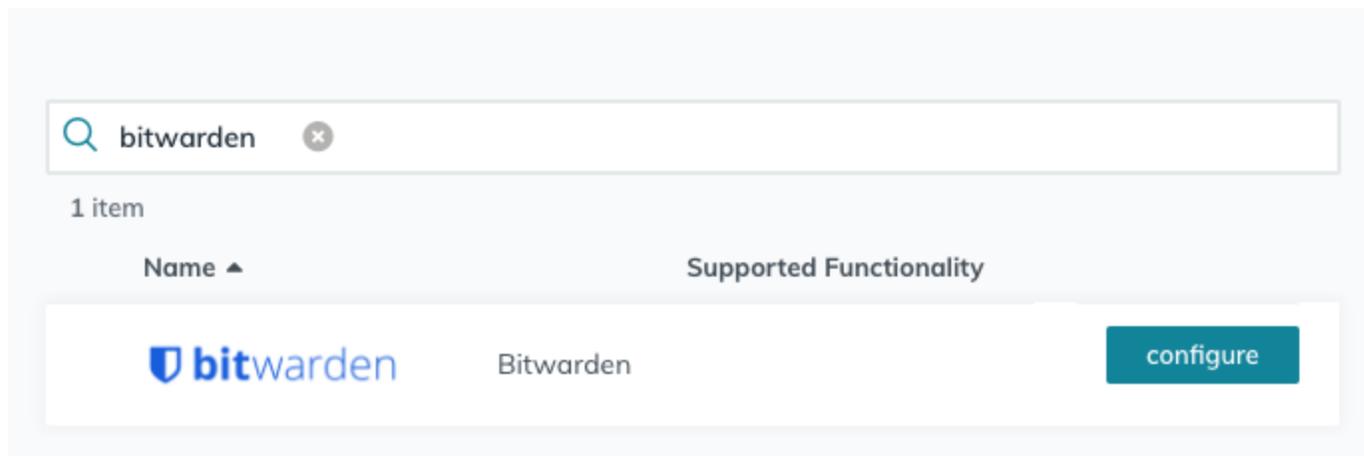
If you are already using this IdP for login with SSO, open that existing application and [skip to this step](#). Otherwise, proceed with this section to create a new application.

In the JumpCloud Portal, select **Applications** from the menu and select the **Get Started** button:



Create Bitwarden app Jumpcloud

Enter **Bitwarden** in the search box and select the **configure** button:



Configure Bitwarden

## General info

In the **General Info** tab, give the application a Bitwarden-specific name.

## SSO

If you plan on using JumpCloud for single sign-on, select the **SSO** tab and setup SSO with [these instructions](#). When you are done, or if you are skipping SSO for now, select the **activate** button and complete the confirmation modal.

## Identity management

Re-open the application and navigate to the **Identity Management** tab. Expand the **Configuration Settings** box and enter the following information:

Field	Description
Base URL	Enter the SCIM URL ( <a href="#">learn more</a> ).
Token Key	Enter the SCIM API Key ( <a href="#">learn more</a> ).

Once you have configured these fields, select the **Activate** button. Once the test comes back successfully, select **Save**.

## User groups

In the **User Groups** tab, select the Groups you would like to provision in Bitwarden. Once you select the **Save** button, provisioning according to this specification will begin immediately.

The screenshot shows the Bitwarden Admin Console interface. On the left is a sidebar with navigation options: Bitwarden, Single sign-on (with Integration Status, IDP Certificate Valid, and IDP Private Key Valid), and Identity Management (with Integration Status). The main content area has tabs for General Info, SSO, Identity Management, and User Groups (which is selected). Below the tabs, a message states: "The following user groups are bound to bitwarden. Users will have access in their User Portal." There is a search bar and a filter "1 of 4 user groups bound" with a checkbox "show bound user group (1)". A table lists four user groups: All Users (checked), Development Group, Marketing Group, and Sales Group. Each group is labeled as a "Group of Users".

Select User Groups

## Finish User Onboarding

Now that your users have been provisioned, they will receive invitations to join the organization. Instruct your users to [accept the invitation](#) and, once they have, [confirm them to the organization](#).

### Note

The Invite → Accept → Confirm workflow facilitates the decryption key handshake that allows users to securely access organization vault data.

## Appendix

### User attribute mapping

Bitwarden uses standard SCIM v2 property names, however these may differ from JumpCloud property names. Bitwarden will use the following properties for each user:

Bitwarden Attribute	JumpCloud Default Property
<code>active</code>	<code>!suspended &amp;&amp; !passwordExpired</code>
<code>emails<sup>a</sup></code>	<code>email</code>

Bitwarden Attribute	JumpCloud Default Property
<code>displayName</code>	<code>displayName</code>

<sup>a</sup> - Because SCIM allows users to have multiple email addresses expressed as an array of objects, Bitwarden will use the **value** of the object which contains "**primary**": **true**.

## Group attribute mapping

Bitwarden will use the following properties for each group:

Bitwarden Attribute	JumpCloud Default Property
<code>displayName</code>	<code>displayName</code>
<code>members<sup>a</sup></code>	<code>members</code>

<sup>a</sup> - Memberships are sent to Bitwarden as an array of objects, each of which represent a user who is a member of that group.