

Unlock 1Password with Single Sign-On Adoption Kit

This kit includes everything you need to successfully enable, roll out, and manage Unlock 1Password with Single Sign-On (SSO) across your entire organization.



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Awareness

Let's start with an overview of the business value, key benefits, and security considerations of unlocking 1Password with Single Sign-On (SSO).

Identity provider integrations: SSO vs SCIM

1Password Business offers two types of integrations with identity providers:

- The SCIM bridge for automated user lifecycle management and role-based access control.
- Single Sign-on (SSO) using the OpenID Connect (OIDC) protocol to let end-users unlock 1Password with their identity provider credentials. Configuring these integrations is done by setting up two distinct applications in most identity providers.

These integrations serve two different functions and interact with your 1Password tenant in distinct ways.

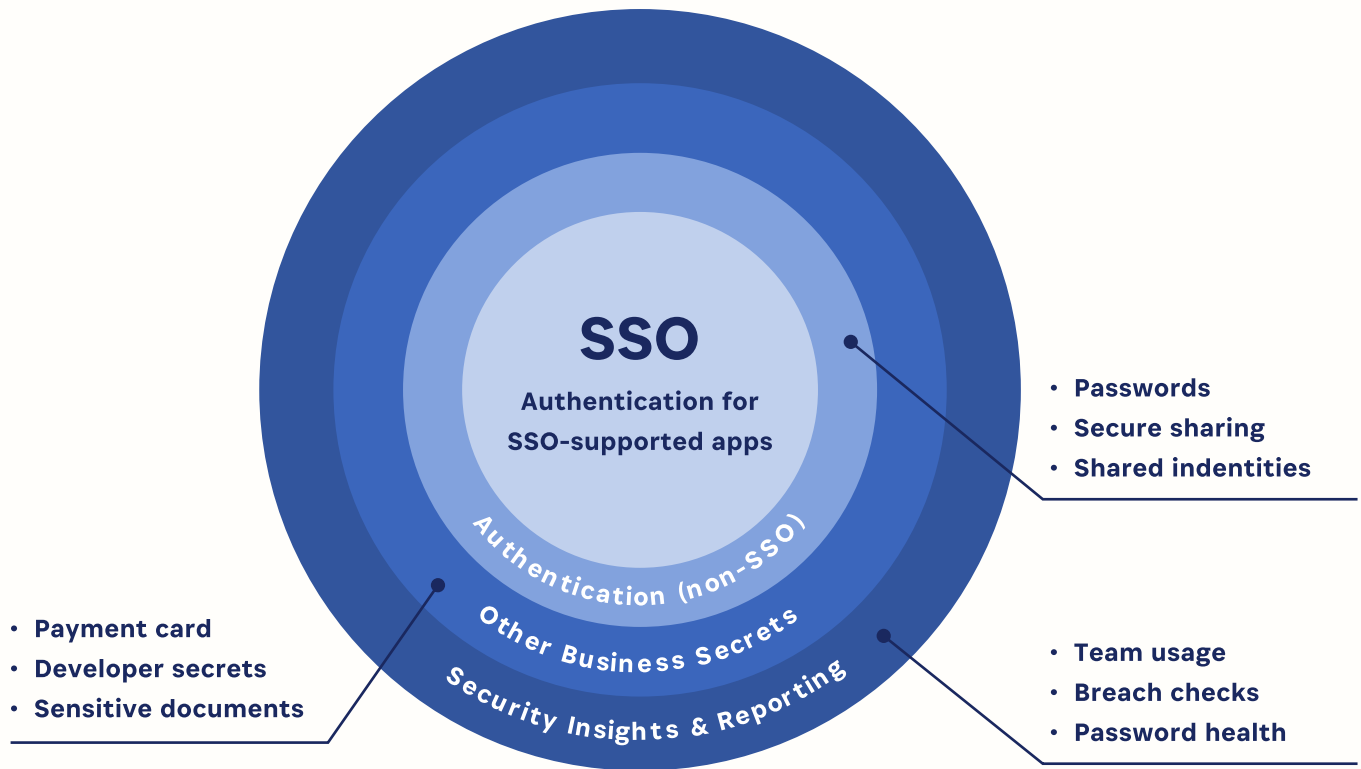
The 1Password SCIM bridge operates as an API endpoint to continue communicating with the 1Password servers via an encryption protocol (SRP).

Single Sign-on (SSO) uses a direct API integration with the 1Password servers to let an end user authenticate using their SSO credentials. This results in the local 1Password application being given authorization to unlock the local database.

Business value

Using a Single Sign-On (SSO) solution is a reasonable way to strengthen password security by simplifying account access. It does, however, have security limitations. When using SSO alone, many websites or applications may not be protected because they aren't compatible with the necessary authentication protocols. 1Password protects your company assets and resources when SSO can't.

Employees can use 1Password to create strong, unique passwords for apps and services that aren't covered by your identity provider. That gives you more comprehensive access and security, and the ability to safeguard secrets that aren't covered by your identity provider, like documents, secure notes, and SSH keys.



Unlock 1Password with Single Sign-On lets 1Password Business users sign in to their 1Password accounts using their identity provider credentials instead of their account password and Secret Key.

- **Without Unlock with SSO**, users sign in to their 1Password account on any device using their account password and Secret Key.
- **With Unlock with SSO**, users sign in to their 1Password account on their first app or browser using their identity provider credentials. Users then sign in to their 1Password account on a new app or browser using their identity provider credentials and by entering a verification code sent to the app or browser linked to their account.



With Unlock with SSO enabled, your 1Password login is now replaced by your identity provider login. While identity providers don't have Emergency Kits like 1Password does, a user can still store their identity provider password in [ways similar to what we recommend for storing Emergency Kits](#).

We recommend users create a password for your identity provider that is random but memorable, eliminating the need to store the password anywhere other than in their memory. **This is now the only password they need to remember.** 1Password can generate memorable passwords by changing the password type from “random password” to “memorable password.”

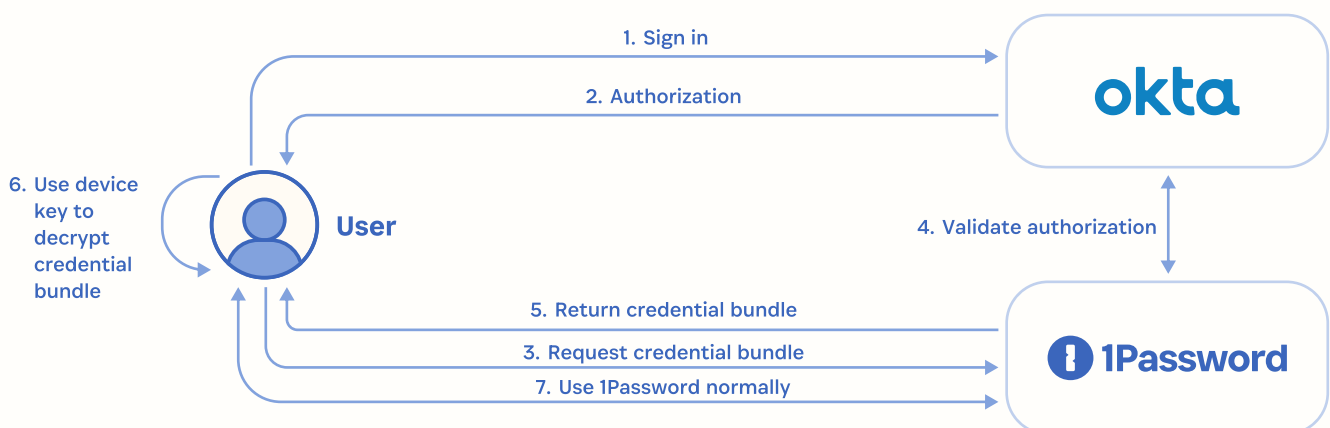
Key benefits

- 1 **Designed with a security-first approach to minimize risks and possible threats.** Integrate with your identity provider to access 1Password using Single Sign-On with zero-knowledge and end-to-end encryption preserved. See the Security overview for more information.
- 2 **Secure access to passwords and sensitive information.** Let employees use your identity provider to authenticate 1Password so they can access their vaults without the need for an account password. Take advantage of secure biometrics for more flexibility on how employees access vaults.
- 3 **Simple admin management.** Use the setup wizard to set policies and roll out Unlock with SSO in just a few clicks.

Security overview

Unlock with SSO acts as an additional layer of identity-proofing on top of the existing 1Password security model. That model requires an account password and Secret Key to access and unlock your account. The account password is a secret that you remember and should only be stored in your brain.

Unlock with SSO works differently. 1Password first confirms that a team member has authenticated to their identity provider, then downloads the team member's encrypted credentials. The team member's device key, which is stored on each device set to Unlock with SSO, is used to decrypt the credentials and access their 1Password data. When this process is complete, Unlock with SSO works just like 1Password with traditional unlock.



Fundamentals of the Unlock with SSO security model:

- **Zero-knowledge architecture and end-to-end encryption is maintained** by the fact that decryption occurs on device. We still do not have access to the keys needed to decrypt a user's data.
- **The app and browser enrollment model** links the initial app and new apps or browsers to your 1Password Business account securely. This is fundamental to 1Password's end-to-end encryption, letting the new app or browser sign in to your account and decrypt your 1Password data while keeping your secrets safe.

When you enter the verification code, 1Password securely transfers a credential bundle from your existing trusted device to the new device. The new device then uses the bundle to sign in to your 1Password account, register itself as a new trusted device, and encrypt the credential bundle with its own device key. This allows the new device to sign in to your account and decrypt your 1Password data independently while keeping your secrets safe. The trusted device enrollment process is not a form of multi-factor authentication, nor is it a replacement for existing device management programs your organization may have in place.

[Learn more about the Unlock with SSO security model and the risk considerations](#)

Customer stories

Discover how 1Password customers use Unlock with SSO to easily access their vaults by signing in with their identity provider.

- [1,400 employees secured in weeks: How 1Password's SSO integration helped Frontier protect its global workforce](#)
- [How Airwallex is using 1Password to eliminate all passwords at work](#)

To learn more about customer experiences on 1Password, visit - <https://1password.com/resources/>

Training Resources

Articles and PDFs

- [\[Article\] How 1Password and SSO fit together – and what comes next](#)
- [\[Article\] 1Password and SSO: A perfect match](#)
- [\[Article\] Unlock with SSO: Under the Hood](#)
- [\[Article\] Unlock 1Password with Duo, OneLogin, and More](#)
- [\[Article\] Passkeys vs. SSO: What are the differences?](#)
- [\[PDF\] Unlock with Single Sign-On: 1Password vs. LastPass](#)
- [\[PDF\] Pair 1Password with your existing IAM infrastructure](#)

Support documentation

- [About 1Password Unlock with SSO security](#)
- [Get started with 1Password Unlock with SSO](#)
- [Administrator: Set up Unlock 1Password with SSO for your team](#)
 - [Configure Unlock 1Password with JumpCloud](#)
 - [Configure Unlock 1Password with Google](#)
 - [Configure Unlock 1Password with Microsoft Entra ID](#)
 - [Configure Unlock 1Password with Okta](#)
 - [Configure Unlock 1Password with SSO using OpenID Connect](#)
- [Sign in to 1Password with SSO](#)
- [Unlock 1Password with SSO on a new device](#)
- [If you're having trouble unlocking 1Password with SSO](#)

On-demand webinars

- [Unlock 1Password with SSO: What you need to know](#)

Videos

Video	Description
Overview of 1Password Security Model	Understand our end-to-end encryption flow and why the app linking mechanism is fundamental to your security and privacy with Unlock with SSO.
Configure Unlock 1Password with Google Workspace	
Accepting an Invite as an SSO End User (Google)	
End user	Description
Accepting an invite as an SSO End User	Learn how to sign up for a 1Password account using Unlock with SSO as an end user.
Accepting an Invite as an SSO End User (Okta)	Learn how to sign up for a 1Password account using Unlock with SSO as an end user using Okta.
Accepting an Invite as an SSO End User (Microsoft Entra ID)	Learn how to sign up for a 1Password account using Unlock with SSO as an end user using Microsoft Entra ID.
Accepting an Invite as an SSO End User and Enrolling a new Trusted Device	Learn how to sign up for a 1Password account using Unlock with SSO and how to link a new app or browser.
Team Member Migration to 1Password Unlock with SSO	Learn how to migrate from using an account password and Secret Key to unlocking 1Password with SSO.
Admin	Description
Unlock with 1Password with Duo SSO - Admin Configuration	Learn how to configure Unlock 1Password with SSO via Duo.
Unlock with 1Password with Okta SSO - Admin Configuration	Learn how to configure Unlock 1Password with SSO via Okta.
Unlock with 1Password with OneLogin SSO - Admin Configuration	Learn how to configure Unlock 1Password with SSO via OneLogin.
Unlock with 1Password with JumpCloud SSO Configuration	Learn how to configure Unlock 1Password with SSO via JumpCloud.

Planning and change management

Rollout plan

Align on your rollout goals and stakeholders

What do you hope to accomplish with your rollout of Unlock 1Password with SSO? For example, your goal might simply be to validate that Unlock with SSO works for your company use cases in a certain amount of time. Pinpoint how to monitor and measure your success, and the 1Password team can help you track against your goals.

With a firm understanding of your goals, engage your internal stakeholders. Consider adding stakeholders to the table below to get started:

SO: Sign-off on the rollout, **R:** Review project and provide input, **I:** Informed of this project

Name	Role	Project Ownership
Enter name and email	IT Support Manager A representative from the IT support organization who can provide input from an admin and help desk perspective.	SO
Enter name and email	Security Owner A representative from the security team that can sign off that the plan will meet the security requirements of your organization.	SO
Enter name and email	Enter role	Enter ownership

Ensure each stakeholder has the appropriate access to the *Policies* tab in 1Password to access the *Unlock with Identity Provider* configuration page. By default, admins and owners have access to the page, which is required to complete an SSO integration.

Consider your implementation approach

Once Unlock 1Password with SSO is enabled, it will be required for enrolled users. Users who are required to sign in with SSO will get an email once your configuration is saved. The email will prompt your team to connect their 1Password accounts with your identity provider. A user who has not yet linked their 1Password account to their identity provider will be prompted to link them at their next login, or if they're already logged in, they'll see a sign-in page when they try to access their vaults or items. If not planned and communicated clearly, your rollout could cause confusion and disruption for your team members. **Consider these best practices:**

1

Plan which users will be unlocking 1Password with SSO.

- If you're just getting started with 1Password and would like all users to Unlock 1Password with SSO from day one, we recommend configuring your settings to enroll everyone but guests. All existing users will be prompted to switch to Unlock with SSO, and all new users will use their identity provider username and password when joining 1Password.
- If you're migrating from traditional 1Password unlock (account password and Secret Key) to Unlock 1Password with SSO, we recommend taking a phased approach to rolling out by selectively enabling and testing specific groups of users at a time. This will allow you to identify and solve any roadblocks with minimal impact and make training smoother for your employees.

2

Consider whether or not you want users to be able to access data stored in 1Password while offline.

- Enabling biometrics for Unlock with SSO allows users to authenticate to 1Password using biometrics, giving them access to their vaults and data even if they're offline. If you choose not to enable biometrics, users will only be able to unlock 1Password with SSO when they are online to make the connection to your identity provider.

3

Determine your grace period.

- Users who already have 1Password accounts will need to switch to Unlock with SSO. You have the option to specify a grace period, or the number of days before users must make the switch. The default is 5 days, but you have the option to set it to 1 to 30 days. Review these considerations when determining a grace period.

4

Plan to deploy the 1Password desktop application.

- The most common scenario we see for users who need account recovery in 1Password is when they only have a single app or browser linked to their account, or they clear the cache of the browser where they first signed into 1Password. This is primarily a result of our security model. To avoid this, we recommend deploying the 1Password desktop application to all users and enrolling the application as a new linked app. If a second linked app or browser is set up, users will be able to retrieve a verification code to re-enroll an additional app that may have been deauthorized. Learn more about implementing a recovery plan for your team.

5

Communicate frequently with users ahead of time.

- While SSO can simplify signing in to 1Password, change management is always a challenge. Be sure to let them know why you're making this change and how it will benefit them. The internal change communication templates in the roll out section below is a good place to start.

Timeline

Tracking your rollout plan is an important aspect of your project success. Consider creating a task list for your rollout to monitor and schedule your timelines and key stakeholders to help keep everyone on track.

Design and configuration

There are several considerations and ways to configure Unlock 1Password with SSO. Be sure to review the [Set up 1Password Unlock with SSO support article](#) and the *Before you begin* section for important considerations when configuring this feature.

Additional getting started and configuration support articles are also linked below:

- [Get started with 1Password Unlock with SSO](#)
- [Administrator: Set up Unlock 1Password with SSO](#)
 - [Configure Unlock 1Password with JumpCloud](#)
 - [Configure Unlock 1Password with Microsoft Entra ID](#)
 - [Configure Unlock 1Password with Okta](#)
 - [Configure Unlock 1Password with SSO using OpenID Connect](#)
 - [Configure Unlock 1Password with Google](#)

Testing your configuration

Create a list of test scenarios for Unlock with SSO on various devices and browsers. These test cases should reflect your specific business use cases. See example test scenarios below:

Scenario	Expected Result	Actual Result
Owner attempts to enroll in Unlock with SSO	Owners accounts will be unaffected by the SSO configuration and will continue to be required to use their account password and Secret Key to log in.	Did your actual result match the expected result?
End user logs into 1Password.com on their browser for the first time	The end user navigates to 1Password.com and signs in with their identity provider credentials, creating their linked browser. The admin confirms their enrollment.	
End user attempts to log into 1Password.com on their first trusted device, but the admin hasn't confirmed their enrollment	The admin confirmation will not block the end user enrollment. They can continue to log in uninterrupted.	
End user signs into the 1Password application on a new device	The end user will sign into 1Password with their identity provider credentials on a new app or browser. The user is then prompted to acknowledge the enrollment by unlocking 1Password on any already-linked apps or browsers and entering the verification code. See video overview.	
End user attempts to log into 1Password with SSO but enters the incorrect password for their identity provider	The end user will see a sign-in error message and will be prompted to enter the correct password.	
End user signs in to the 1Password application on the same device where they first signed in to 1Password.com	The end user will sign in to the 1Password application with their identity provider credentials. The user is then prompted to acknowledge the enrollment by unlocking 1Password on their existing trusted device (1Password.com) and entering the verification code.	
End user attempts to link a new app or browser but enters the incorrect verification code	The end user will see an error message and will be prompted to re-enter the correct verification code.	

After you complete all of the testing based on your test cases above, you're ready to roll out Unlock with SSO to additional users.

Rolling out Unlock with SSO

After you complete your planning, configuration, and testing, it's time to roll out Unlock with SSO to the rest of your organization.

Provide internal change communication to end users

The end user experience is going to change when they access 1Password moving forward. You can distribute the readiness materials to your users before the SSO rollout. Educating them on the feature and the changes will help reduce help desk tickets and drive positive adoption for your deployment of Unlock with SSO.

- [SSO Frequently Asked Questions for Administrators](#)
- [SSO Frequently Asked Questions for End Users](#)
- [Deployment email and communication templates](#) are available in the 1Password Launch Kit for download and use

Turn on Unlock 1Password with SSO for additional users

Return to the 1Password admin console and make sure you've added all of your users to 1Password. Navigate back to the Unlock with SSO [settings page](#) in your 1Password account and [choose or adjust who you'd like to enroll](#). Typically it's easiest to set "everyone except guests" to unlock with SSO, since this ensures that new team members invited to your account will receive an SSO invite.

Once you save your configuration changes, your employees will receive an email with instructions on how to sign into 1Password using SSO. They will no longer be able to use their account password and Secret Key to sign in to 1Password unless they are an Owner of the 1Password account. Keep in mind that any users who have not signed in to 1Password using SSO at the end of your grace period will require account recovery from an administrator.

Management and operations

How do I manage and maintain Unlock 1Password with SSO? This section provides resources for troubleshooting information, operation, and ongoing management details.

Errors, warnings, and troubleshooting

In this section you'll find troubleshooting guides for common scenarios that can be useful for your admins or help desk team.

Condition: If...	Verification	Details/Actions
User is unable to sign in	<p>Verify that the user has entered the correct credentials and is on the correct URL – If they're using my.1password.com as a sign-in address, they need to switch to your team's unique web address on 1Password.com instead. Learn how to find yours.</p> <p>Verify the user's email used for their identity provider matches the one used in 1Password.</p> <p>Verify the user is on 1Password 8. If they are on 1Password 7 or earlier, they won't be able to sign in with SSO.</p>	<p>Upgrade from 1Password 7 to 1Password 8 for Mac or Windows and 1Password 8 for iOS or Android.</p> <p>Make sure they have the following releases installed on their computer and mobile device:</p> <ul style="list-style-type: none"> • 1Password browser extension • 1Password 8 for iOS or Android • 1Password 8 for Mac, Windows, or Linux • 1Password CLI (optional) <p>If the user's email is different between your identity provider and 1Password, update the email to make sure they match.</p> <p>If the user still can't sign in, you can recover their account. Once account recovery is complete, the user will need to re-link their apps and browsers.</p>
User is asked for an account password and Secret Key	<p>Verify that they accepted the invitation to join Unlock with SSO</p>	<p>Wait 30 minutes and try again.</p>
User sees "unable to sign in because grace period is expired" message	<p>Verify the user hasn't migrated to SSO by navigating to the Group Details page. "Needs recovery" will be displayed next to users in that group who passed their grace period deadline.</p>	<p>Recover their account.</p>

User is signed out of their account after closing their browser

Check your cache clearing policies. If browsing data is cleared when the browser is closed, users will lose access to their linked browser.

Option to exclude your [team's sign-in address](#) from that policy to make sure team members won't lose access to their linked browser.

Encourage users to set up other linked apps, like the 1Password desktop app, after you sign up or switch to unlock with SSO.

User's device is lost or stolen

[Verify the device location if possible.](#)

Start [account recovery](#) and [deauthorize the lost or stolen device](#).

Once account recovery is complete, the user will need to re-link their apps and browsers.

Support and feedback guidance

Guidance for Administrators

The [1Password Community](#) is a place for 1Password users and admins to ask questions, share insights and best practices, and stay up-to-date on product news and events. We'd love to see you there.

And while you're there, please feel free to share your thoughts on Unlock with SSO. We're listening, and we'd love to hear your suggestions on how we can improve Unlock with SSO.

Guidance for End Users

A variety of articles are available in [1Password Support](#) for users who encounter problems with Unlock with SSO. Make sure to inform your end users about the most effective means of contacting 1Password administrators on your team for any issues or problem-solving. We recommend providing support to users by referring to the troubleshooting tips outlined earlier in this adoption kit before they contact 1Password Support.