

RESOURCE CENTER

Secure your business with Bitwarden and Duo

Learn how Bitwarden integrates with Duo for multiple solutions: Duo MFA for two-step login, and Duo SSO for Login with SSO.

Get the full interactive view at
<https://bitwarden.com/resources/secure-your-business-with-bitwarden-and-duo/>



Businesses rely on third-party applications and software as a service (SaaS) products as a part of operations to increase productivity and efficiency. As SaaS products become more common, so have cyber attacks targeting these accounts and the employees that utilize them. These attacks could potentially result in the leakage of sensitive information and disruption to operations, causing harm to businesses and their customers.

In the [2023 Password Decisions Survey](#), 60% of respondents reported that they were the target of a cyberattack. A combination of defenses, like [Bitwarden Password Manager](#), multi-factor authentication, and single sign-on, helps reduce risk of successful attacks by hardening access to critical systems. These provide multiple levels of authentication and tools to create, store, and share strong passwords for all departments of a company and deflect credential stuffing, phishing, and ransomware attacks, keeping your business secure.

To provide this enhanced security, Bitwarden integrates with [Duo](#) for multiple solutions: Duo MFA for **two-step login**, and Duo SSO for **Login with SSO**.



Table of Contents

[Duo for Multi-factor Authentication](#)

[Duo for Single Sign-On](#)

[Summary](#)

[Resources](#)

Duo for Multi-factor Authentication

To further protect credentials maintained within an organization vault, Bitwarden supports [Duo MFA](#) for [two-step login](#), also known as two-factor authentication (2FA) or multi-factor authentication (MFA). Duo MFA can be used both individually and enacted across the Bitwarden organization with the applicable Enterprise Policy, ensuring secure two-step login for all employees.


SETTINGS
Organization info
Policies
Two-step login
Import data
Export vault
Domain verification
Single sign-on
SCIM provisioning

Two-step Login Enforcement

Enforce Bitwarden Two-step Login options for members by using the [Two-step Login Policy](#). To enforce Two-step Login through Duo, use the options below.

If you have setup SSO or plan to, Two-step Login may already be enforced through your Identity Provider.

Providers

	Duo (Organization) Verify with Duo Security for your organization using the Duo Mobile app, SMS, phone call, or U2F security key.	Manage
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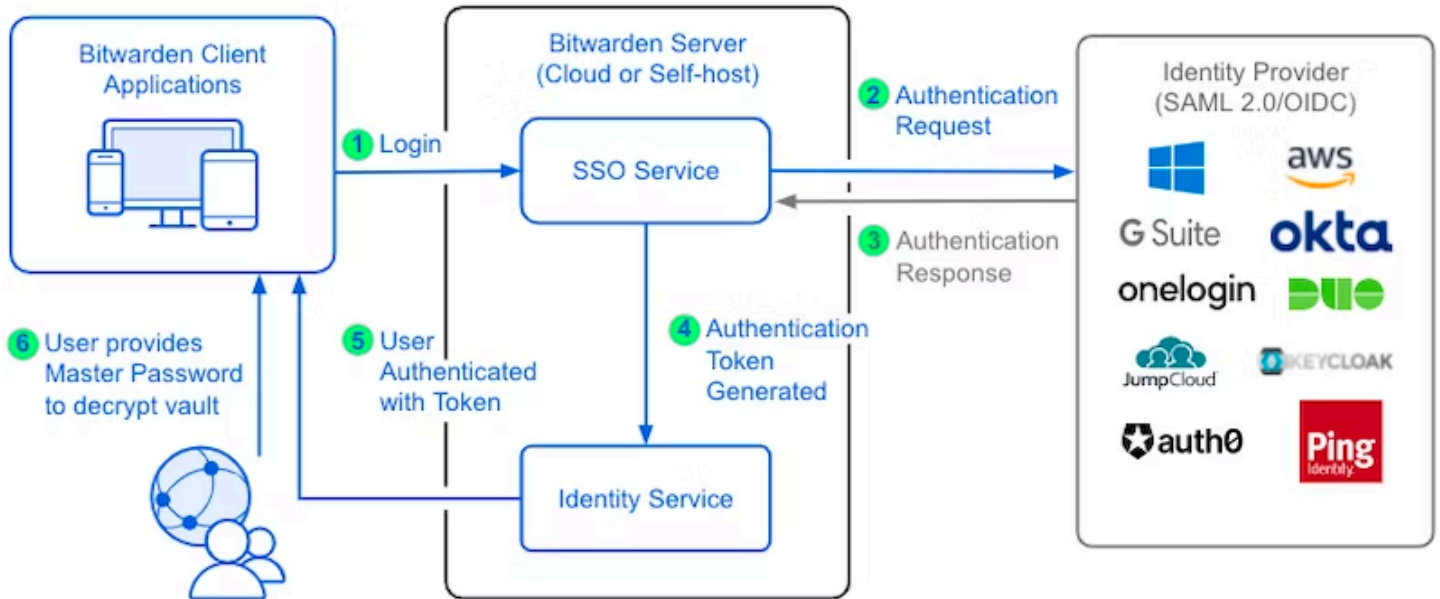
Benefits of Bitwarden and Duo MFA

- Protection against stolen passwords, phishing attempts, and social engineering.
- Strengthen overall enterprise security by protecting passwords and logins within Bitwarden secured by Duo MFA.
- Deploy for individuals or the entire organization.
- Quick and easy setup.

Duo for Single Sign-On

Using [Login with SSO](#) with Bitwarden provides additional convenience and security for credentials throughout the organization. [Duo SSO](#) with Bitwarden allows for secure authentication into Bitwarden accounts and by extension, the stored credentials within, providing full oversight and control of the tools and applications that teams are using. Bitwarden is compatible with Duo through SAML 2.0 or OpenID Connect (OIDC). To maintain zero-knowledge encryption, Bitwarden separates authentication and decryption into two discrete steps:

authentication through Duo, then decryption and vault access through a Bitwarden master password. As a result, decryption keys never pass through Bitwarden or Duo servers.



Single Sign-On flow to access Bitwarden

Benefits of Bitwarden and Duo SSO

- SSO provides a reduction of the number of passwords and credentials needed by employees, decreasing the surface area of a potential cyberattack.
- SSO security is extended to credentials stored within a Bitwarden vault.
- Easy integration into existing workflows without disruption.
- Additional security options for user authentication.

Summary

The Bitwarden and Duo integration brings additional security to businesses and teams in two ways: as a form of multi-factor authentication (MFA) and as a Single Sign-On (SSO) provider. In addition, the MFA functionality can be used for individuals and also

enforced across the organization. Using just one or both integrations can drastically improve your business's security posture, and deploying the solutions is simple and straightforward.

Resources

- [Two-step Login via Duo](#)
- [Field Guide to Two-Step Login](#)
- [Configure Your Organization using Login with SSO](#)
- [Setting up Login with SSO](#)
- [Login with SSO and Customer-Managed Encryption](#)

Looking to learn more? Check out the Bitwarden [Help Center](#) and documentation or [contact sales](#) directly!