bitwarden

University of Utah MacAdmins

Bitwarden for Apple Teams and Enterprises

Bitwarden Speakers

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Today's Agenda

- Password manager basics
- Bitwarden Architecture
- What is the best way to share passwords?
- A few Apple-specific tips
- Extra bonus - Bitwarden Send
- Q&A

Password Management Basics

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12:43
Face ID
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Log in to github.com using Bitwarden?

Experts recommend strong and unique passwords for every website you visit

Nearly impossible to do as normal human being

Easy to do with a password manager

What makes a strong password?

Long

Complex

Random

\+ unique!

Password managers make this easy

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Key choices in picking your password manager

Do we operate cross-platform?

Do we operate across browsers?

Do we prefer open source solutions?

Do we need the option to self-host?

Do we need to integrate with existing systems?

Windows

Support for Windows 8, 10, and 11

`.exe`

macOS

Support for MacOS 10.14+ and Safari 14+

`Mac App Store`

Linux

Support for most distributions

`.AppImage`

Google Chrome

Safari

Mozilla Firefox

Vivaldi

Opera

Brave

Microsoft Edge

Tor Browser

DuckDuckGo for Mac

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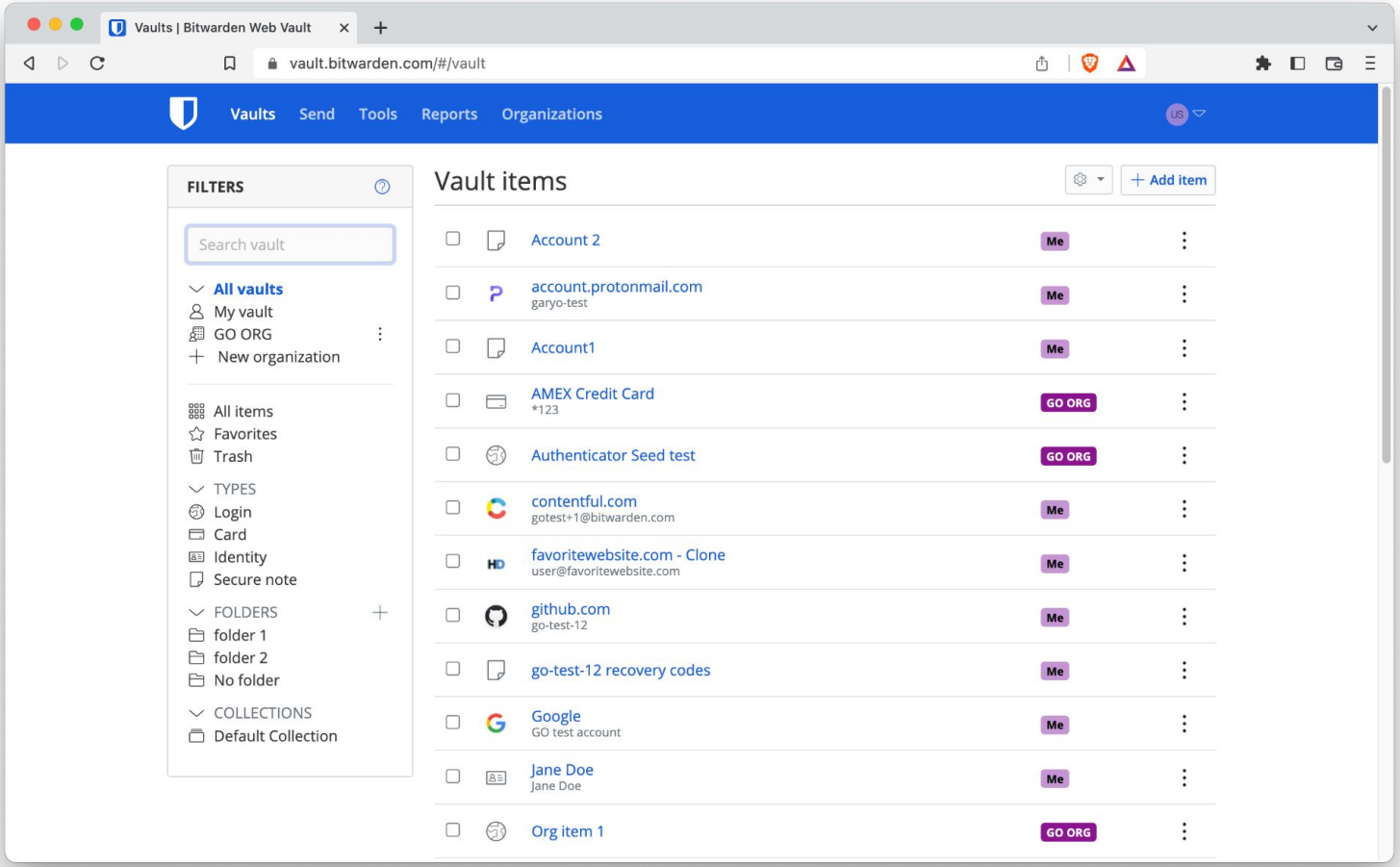
Download on the App Store

GET IT ON Google Play

Command line

Use the powerful Bitwarden command-line interface (CLI) to write and execute scripts on your vault.


Vaults | Bitwarden Web Vault
vault.bitwarden.com/#/vault
Vaults
Send
Tools
Reports
Organizations
FILTERS
Search vault
All vaults
My vault
GO ORG
New organization
All items
Favorites
Trash
TYPES
Login
Card
Identity
Secure note
FOLDERS
folder 1
folder 2
No folder
COLLECTIONS
Default Collection
Vault items
Add item
Account 2
Me
account.protonmail.com
garyo-test
Account1
AMEX Credit Card
*123
GO ORG
Authenticator Seed test
contentful.com
gotest+1@bitwarden.com
favoritewebsite.com - Clone
user@favoritewebsite.com
github.com
go-test-12
go-test-12 recovery codes
Google
GO test account
Jane Doe
Org item 1

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Bitwarden Architecture

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Bitwarden Clients and Bitwarden Cloud / Server

All Vault data end-to-end encrypted with zero knowledge

Bitwarden Clients

Mobile

Browser

Desktop

CLI

Web Vault

Bitwarden server

Cloud or self hosted

Individual Vault on account creation

Adjustable with enterprise policies

Individual Vault

Folders

- Login
- Secure notes

Bitwarden User

All Vault data end-to-end encrypted with zero knowledge

Bitwarden Clients

Mobile

Browser

Desktop

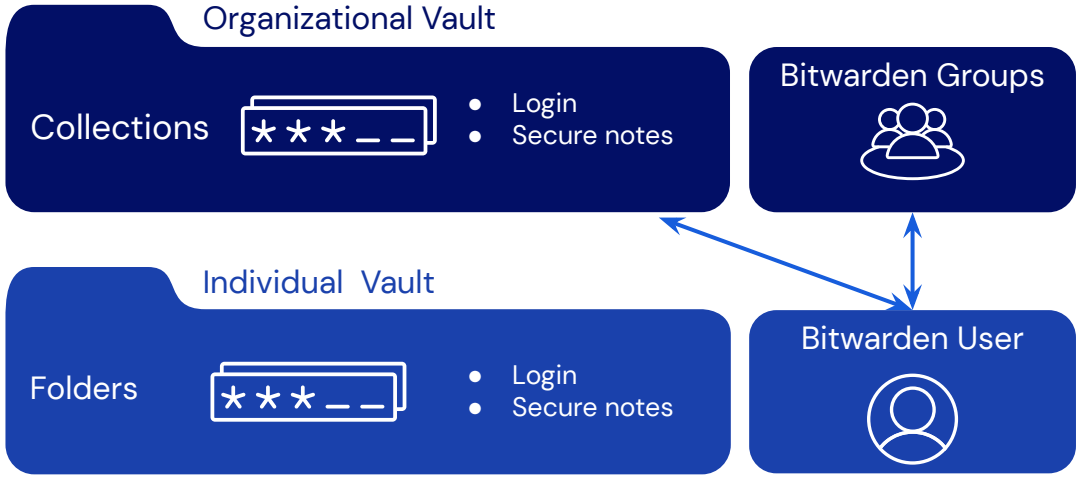
CLI

Web Vault

Bitwarden server

Cloud or self hosted

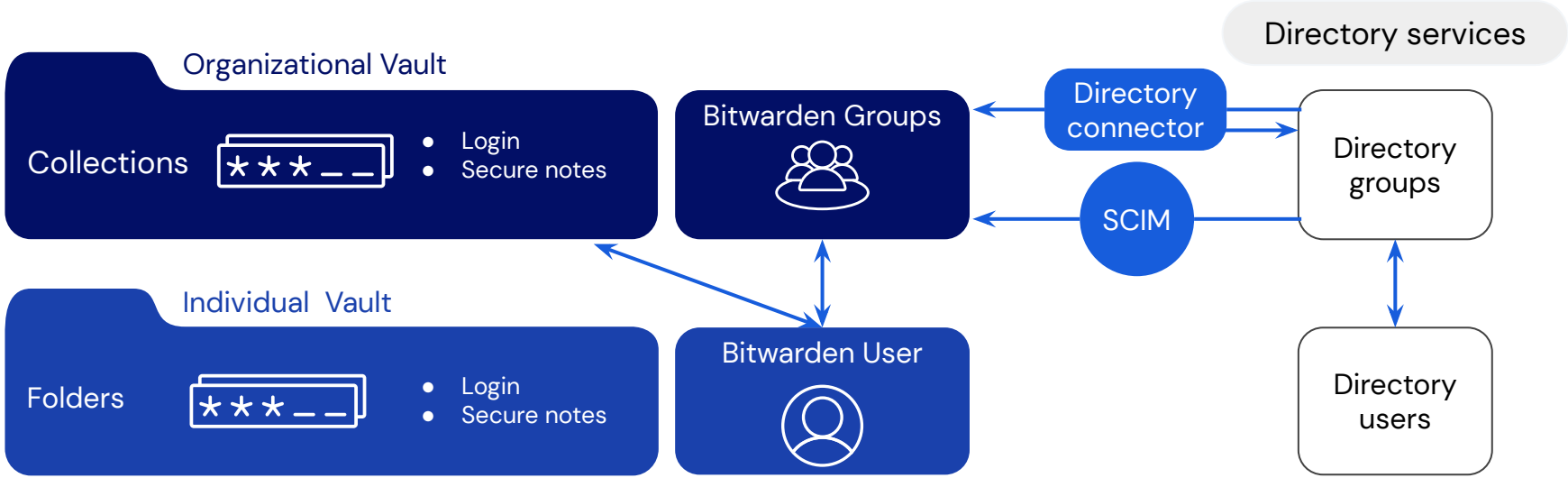
Organization Vaults, Collections, Groups



All Vault data end-to-end encrypted with zero knowledge

Bitwarden Clients

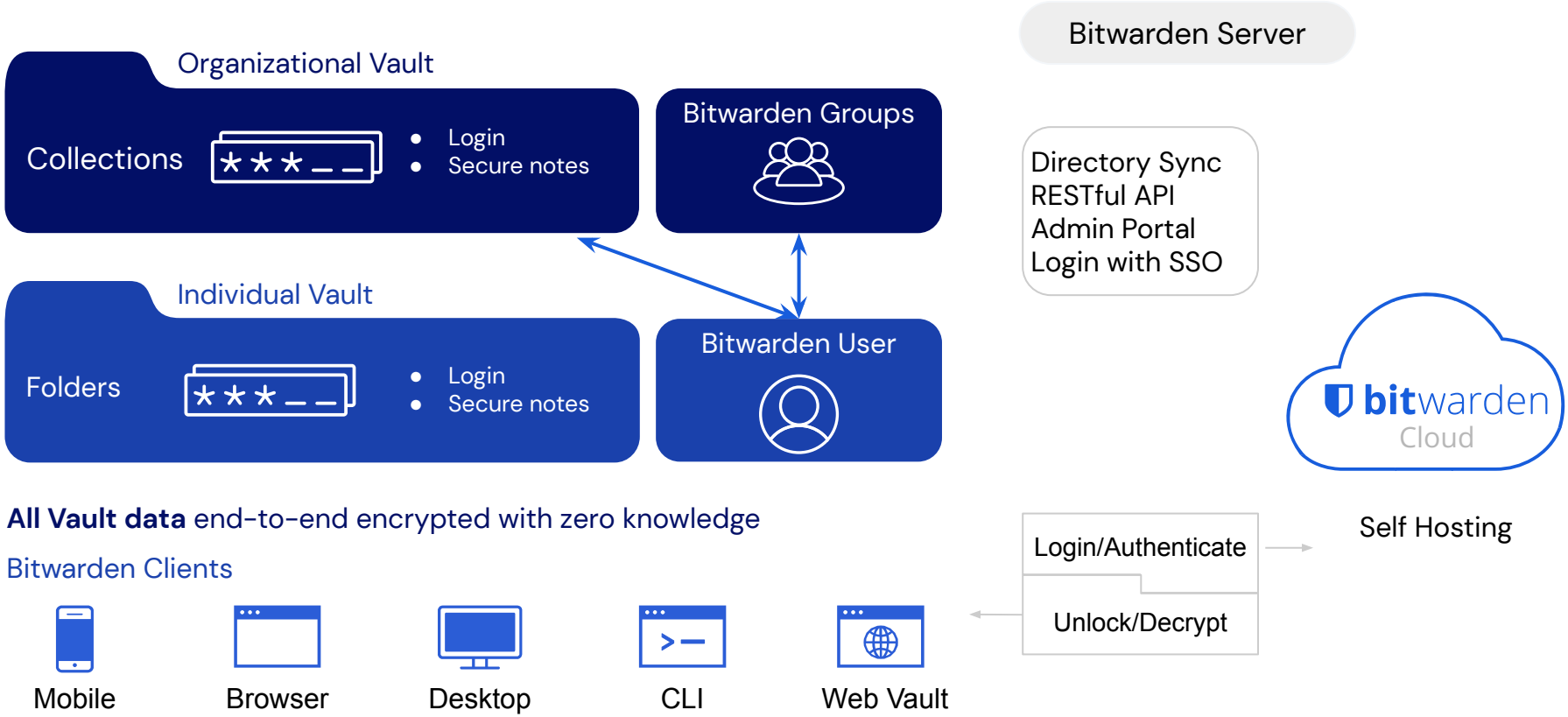
Integrating with Directory Services



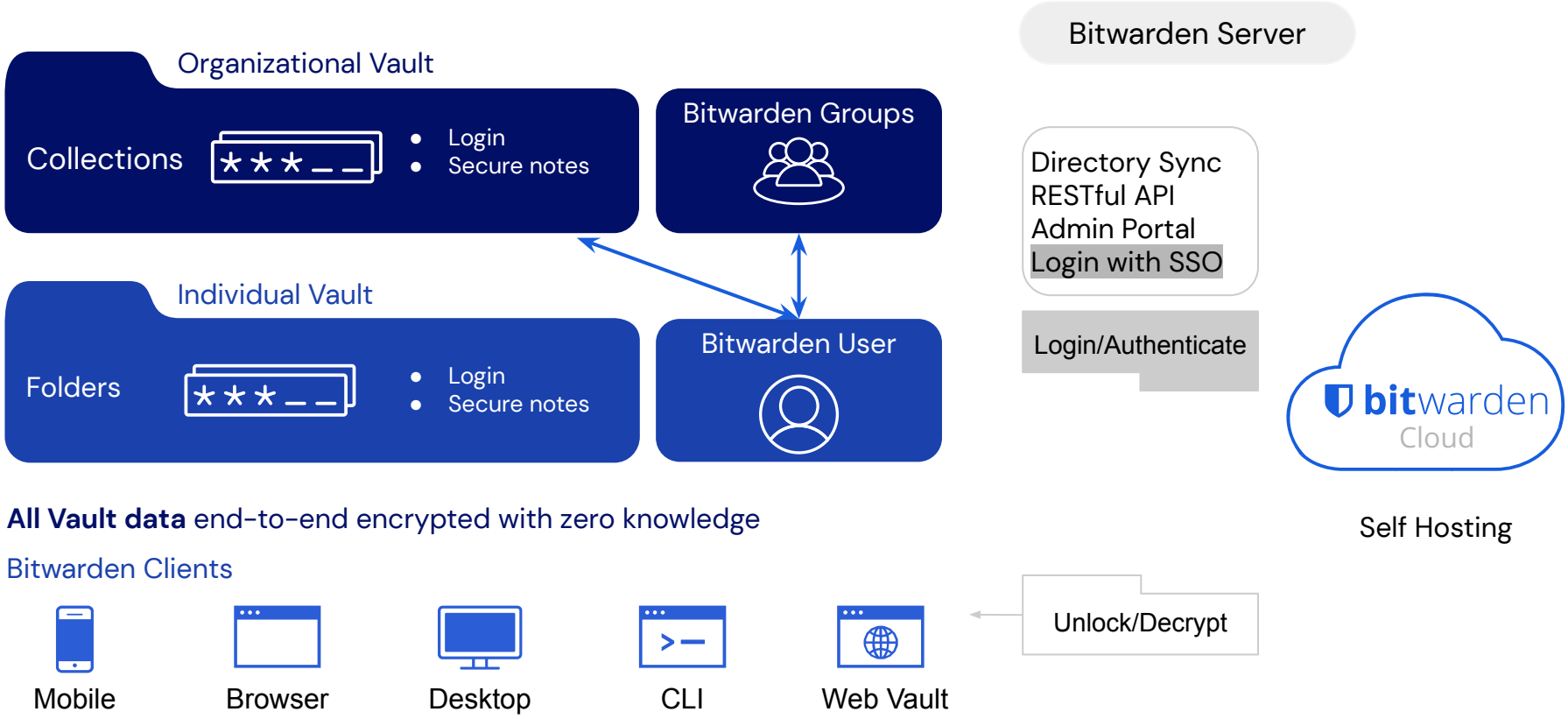
Works with:

- Active Directory
- Azure Active Directory
- G-Suite (Google)
- Okta
- OneLogin
- Any LDAP-based directory

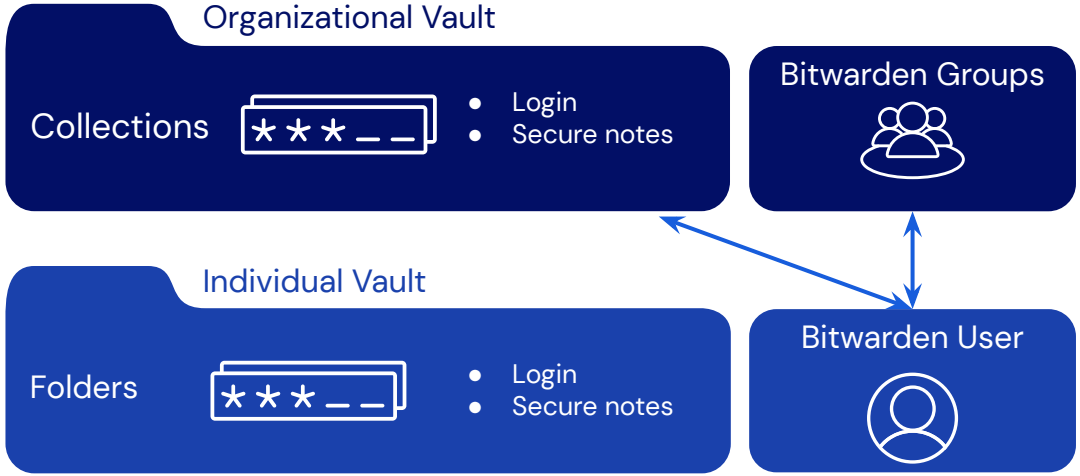
Bitwarden Client, Vault, and Server Architecture



Bitwarden Architecture - Login and Decryption



Administrative Portal for management



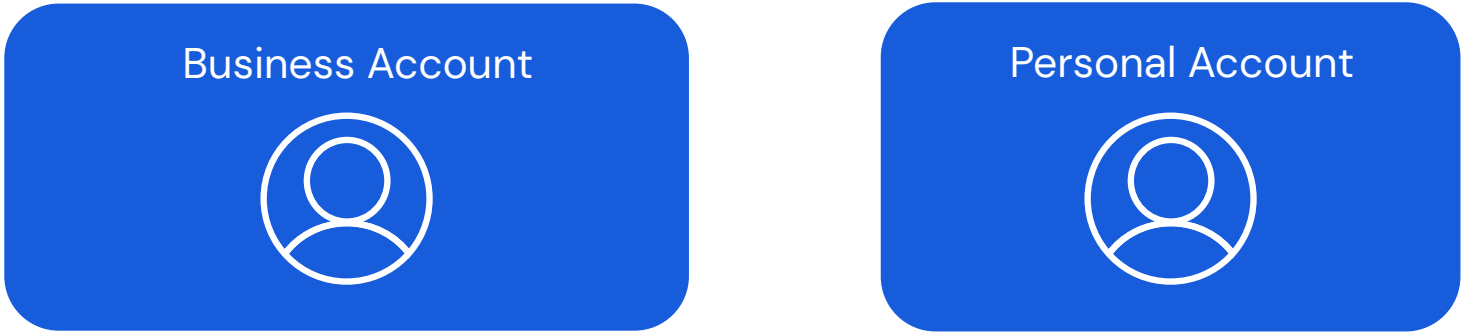
All Vault data end-to-end encrypted with zero knowledge

Bitwarden Clients

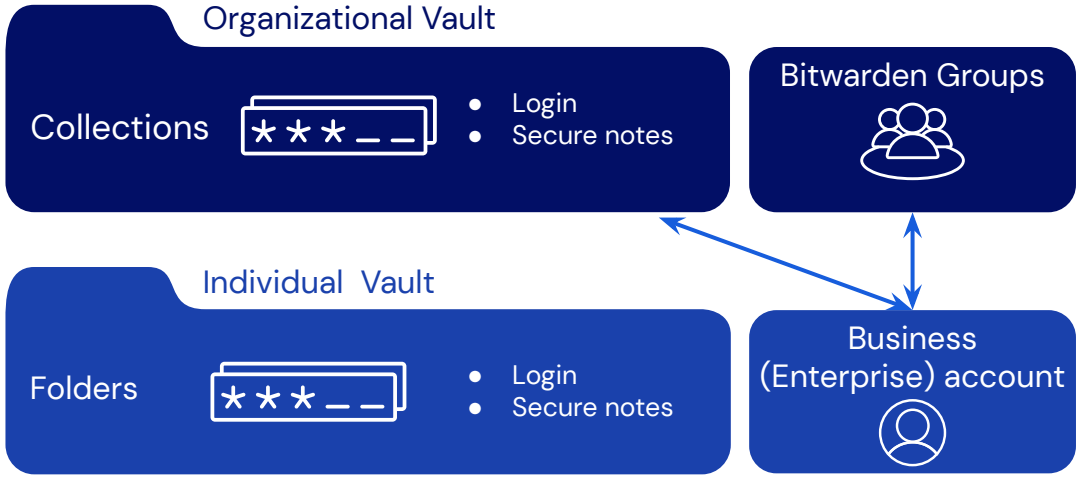
Admin Portal

- Manage
  - People
  - Collections
  - Groups
  - Policies
  - Single Sign-On
  - Event Logs
- Tools
  - Import Data
  - Export Vault
- Reports
  - Exposed, Reused, Weak Passwords
  - Unsecured Websites
  - Inactive 2FA
- Settings
  - Subscription, Billing

Bitwarden for Business AND Personal use



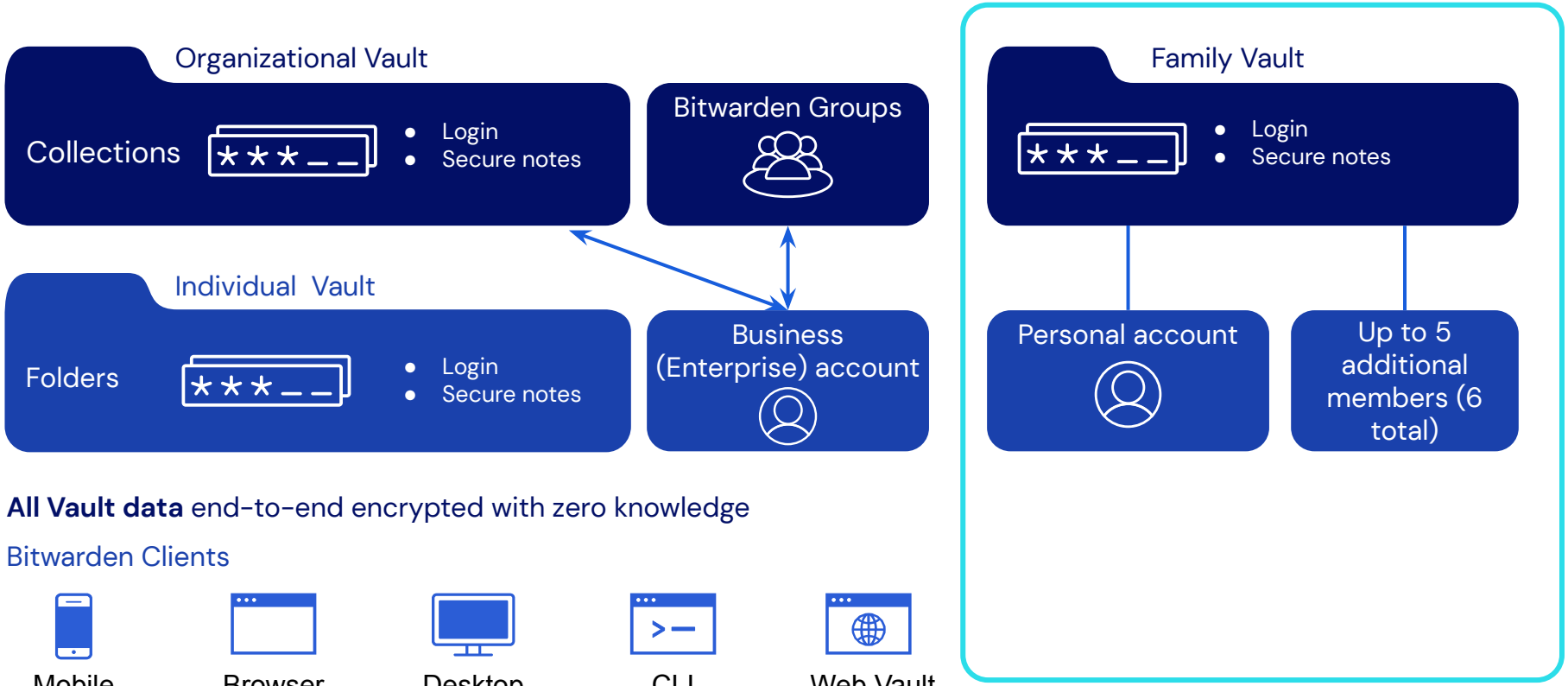
Business users have Organization and Individual Vaults



All Vault data end-to-end encrypted with zero knowledge

Bitwarden Clients

Add a Personal Account and optional Family Vault

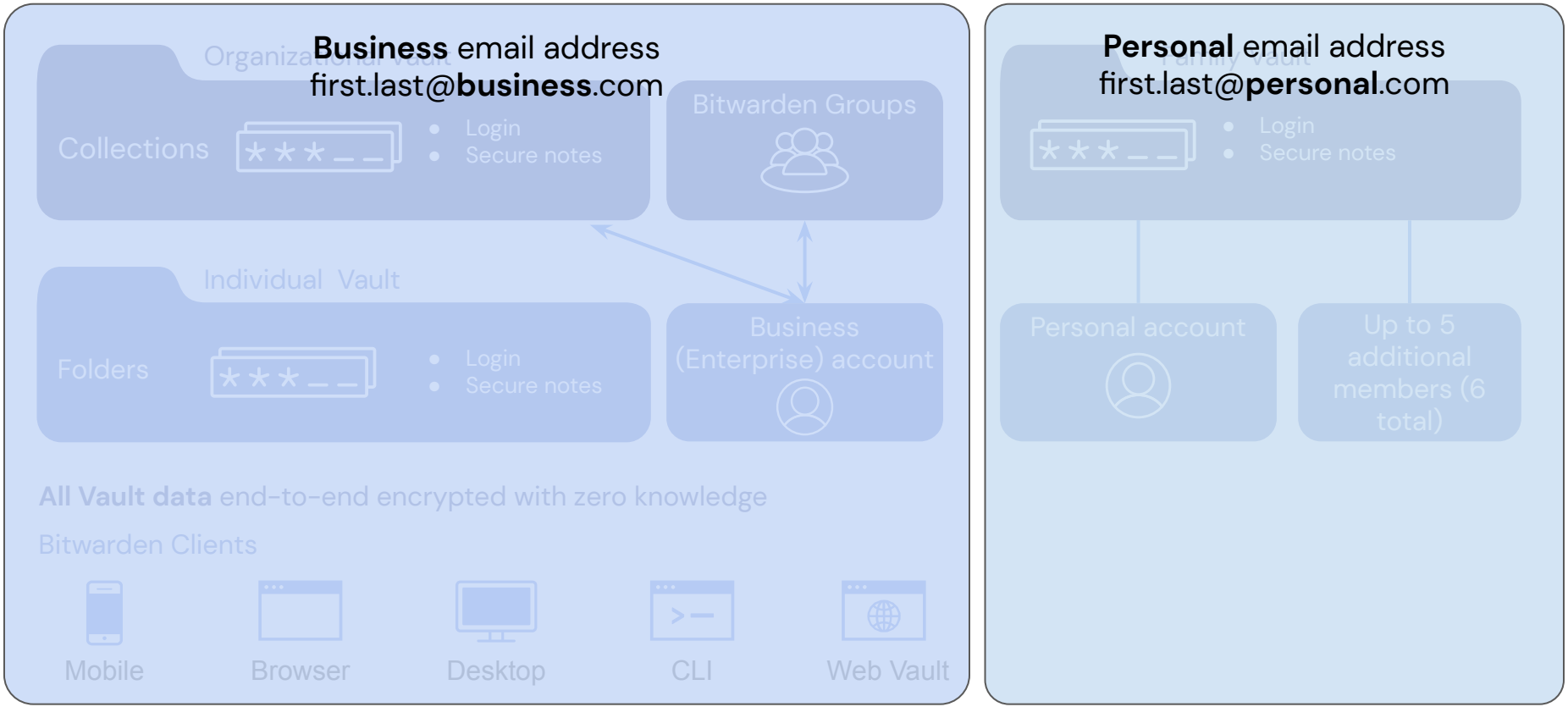


All Vault data end-to-end encrypted with zero knowledge

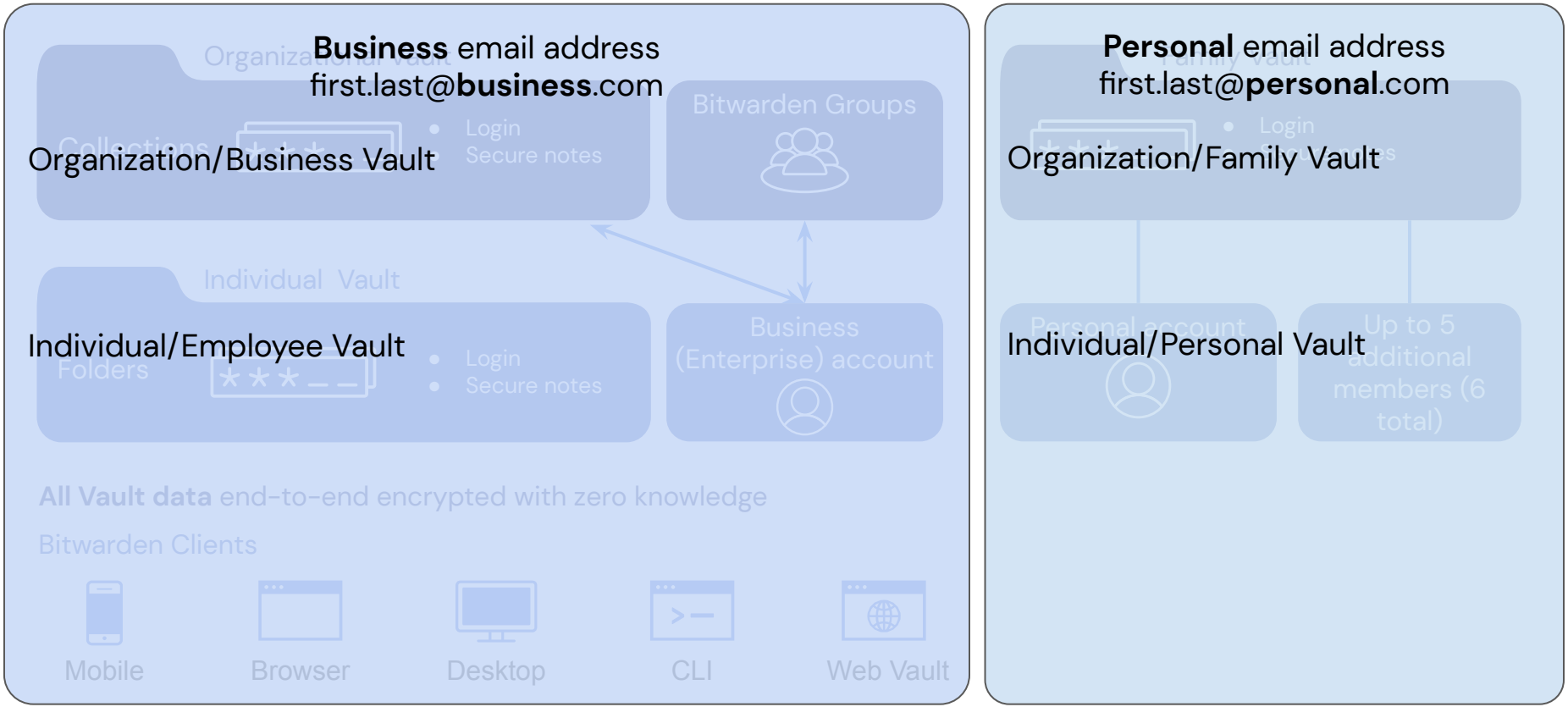
Bitwarden Clients

Mobile | Browser | Desktop | CLI | Web Vault

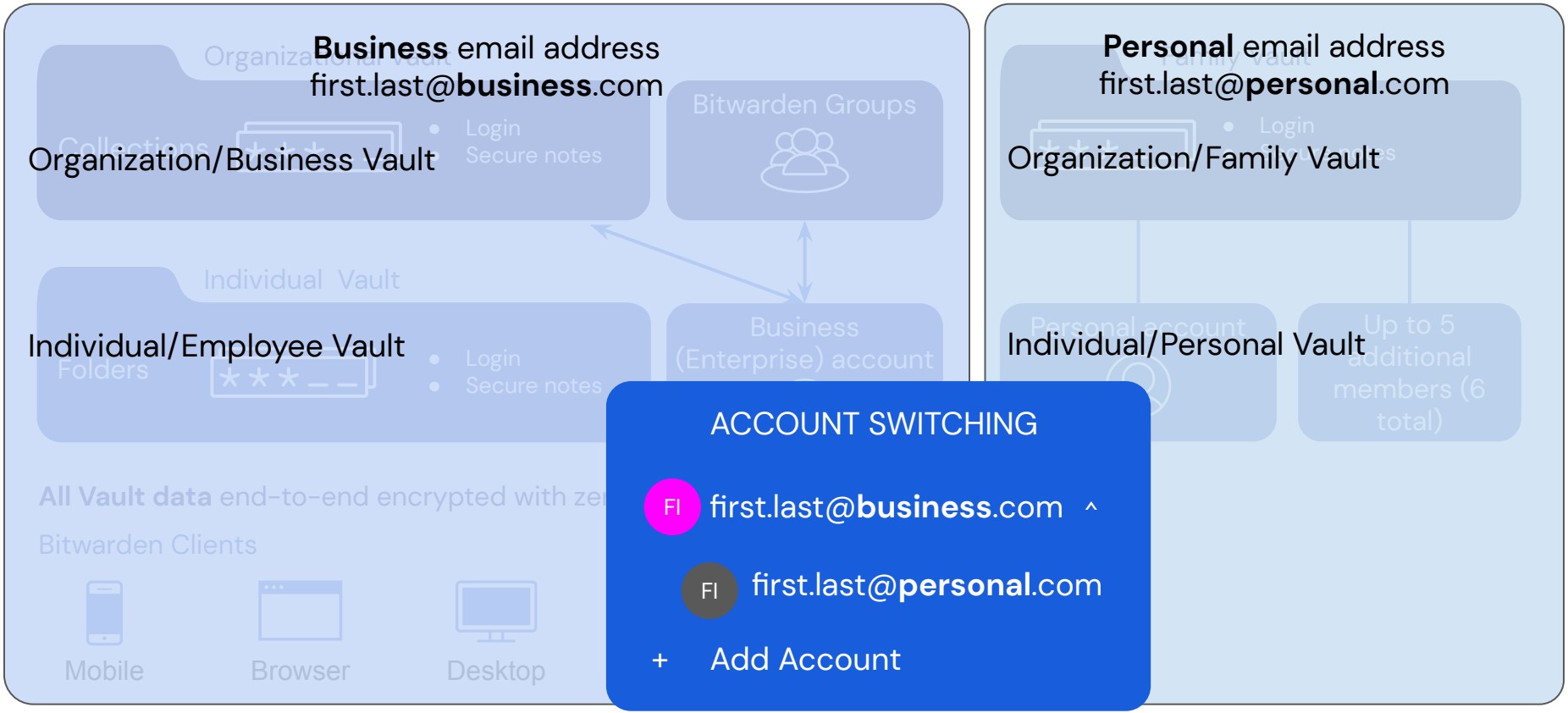
Use different emails for business and personal



Each account can have Organization and Individual Vaults



Use Account Switching to toggle between accounts



What is the best way to share passwords?

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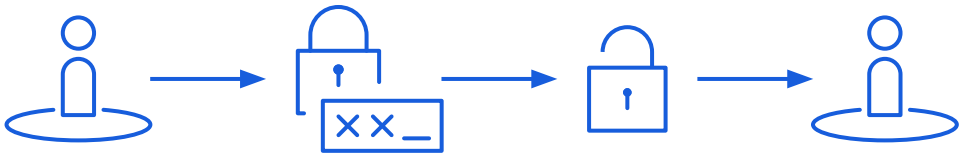
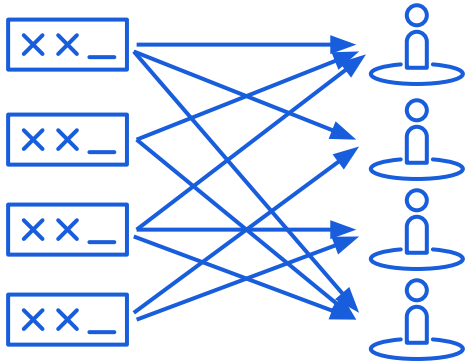
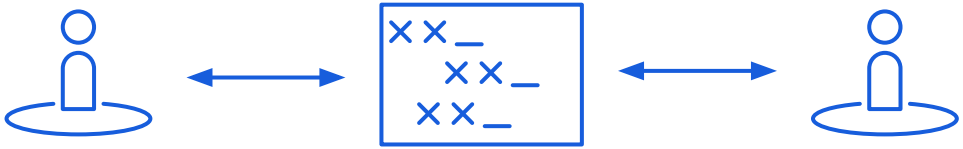
Basic approach of secure sharing



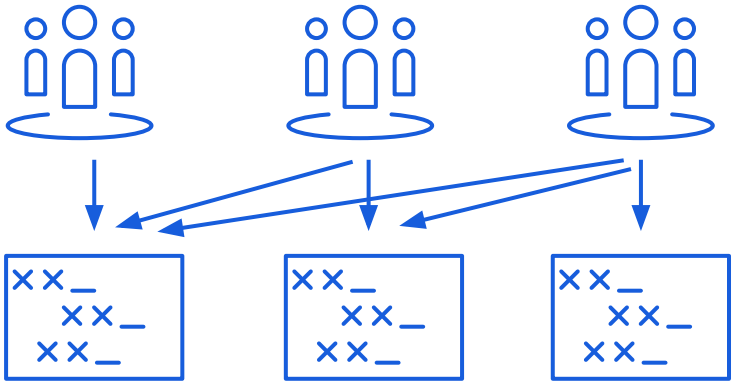
But the basic approach lacks scale



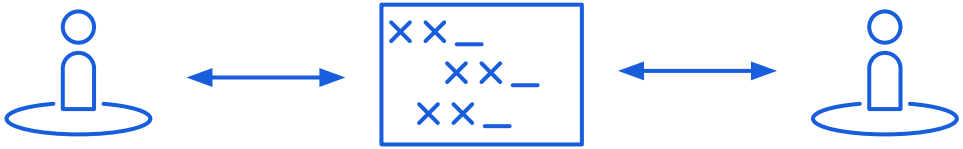
Sharing with collections



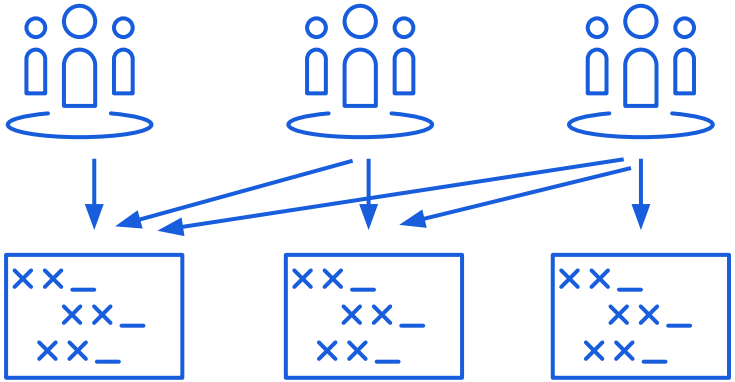
Collections scale within an organization



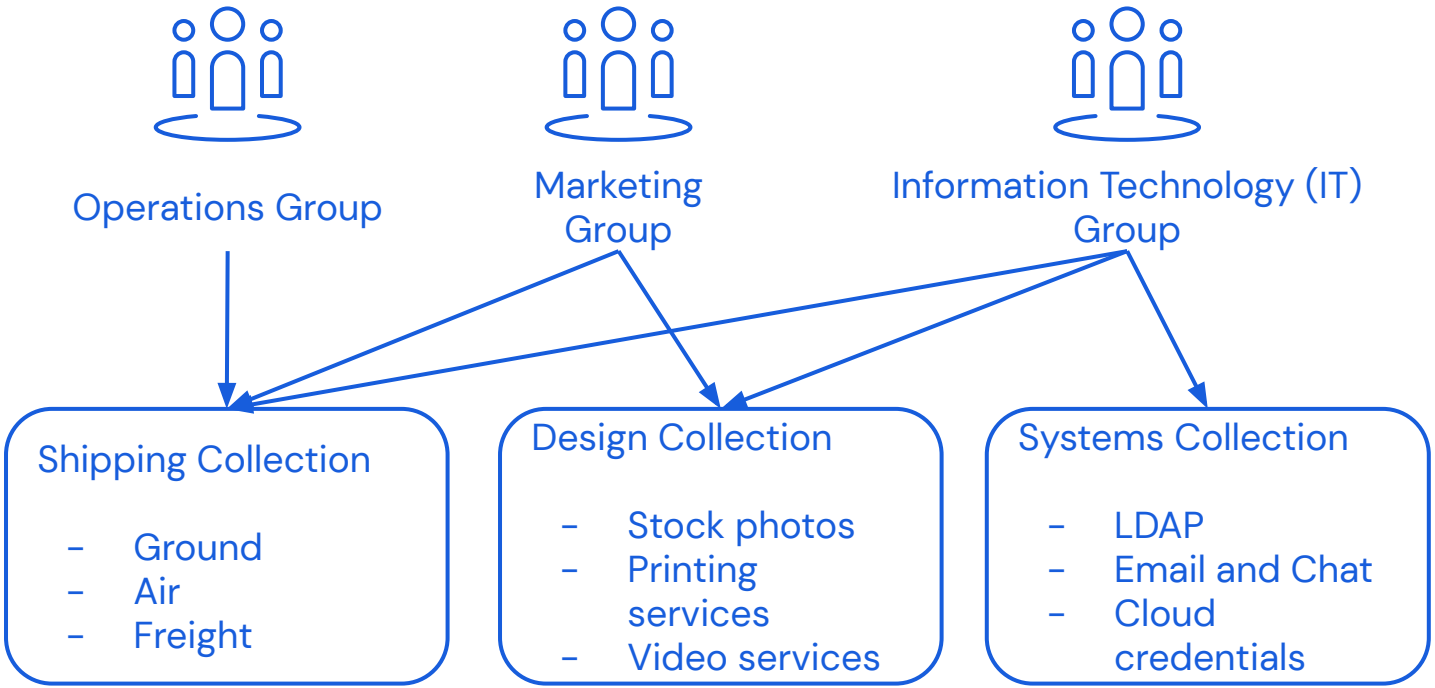
Sharing with collections



Collections scale within an organization



Secure scalable sharing with groups and collections



A few Apple-specific tips

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Alarms
App Store
Bitwarden
Calculator
Calendar
9:02
GitHub
jdoe@mail.com
669 992
11
Bitwarden on
Apple Watch
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Set Bitwarden to the default for iOS browsers instead of Keychain

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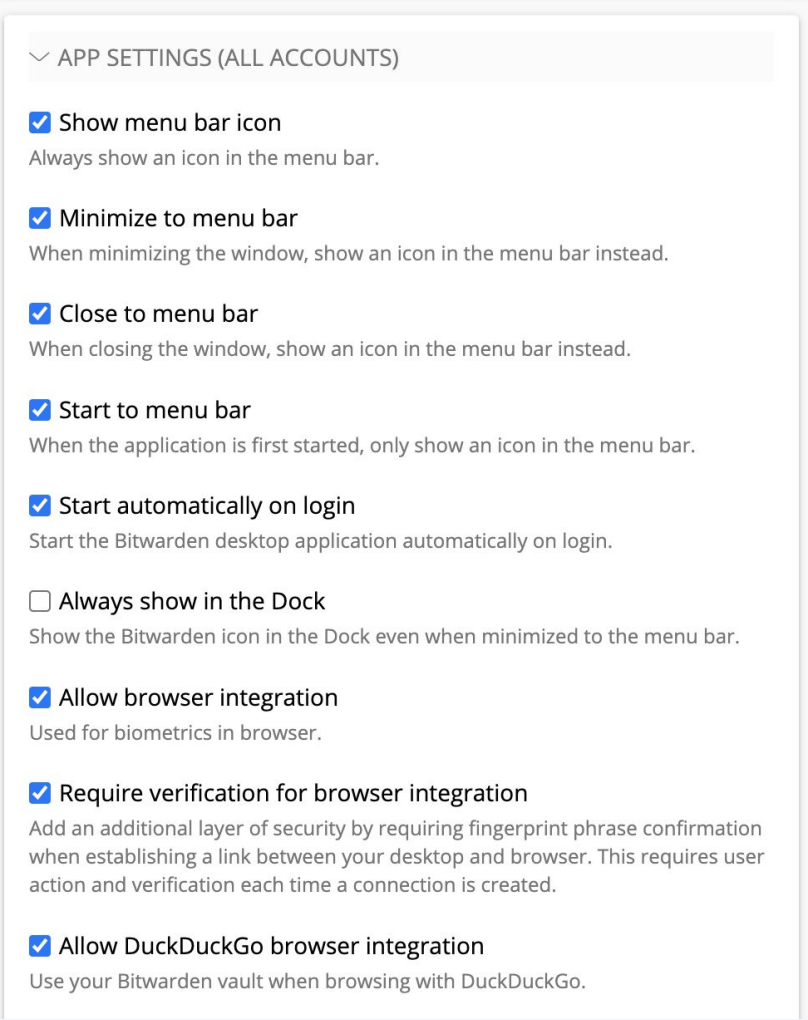
Desktop options

Start, close, and minimize to menu bar is Mac specific, and helps clean up the Dock



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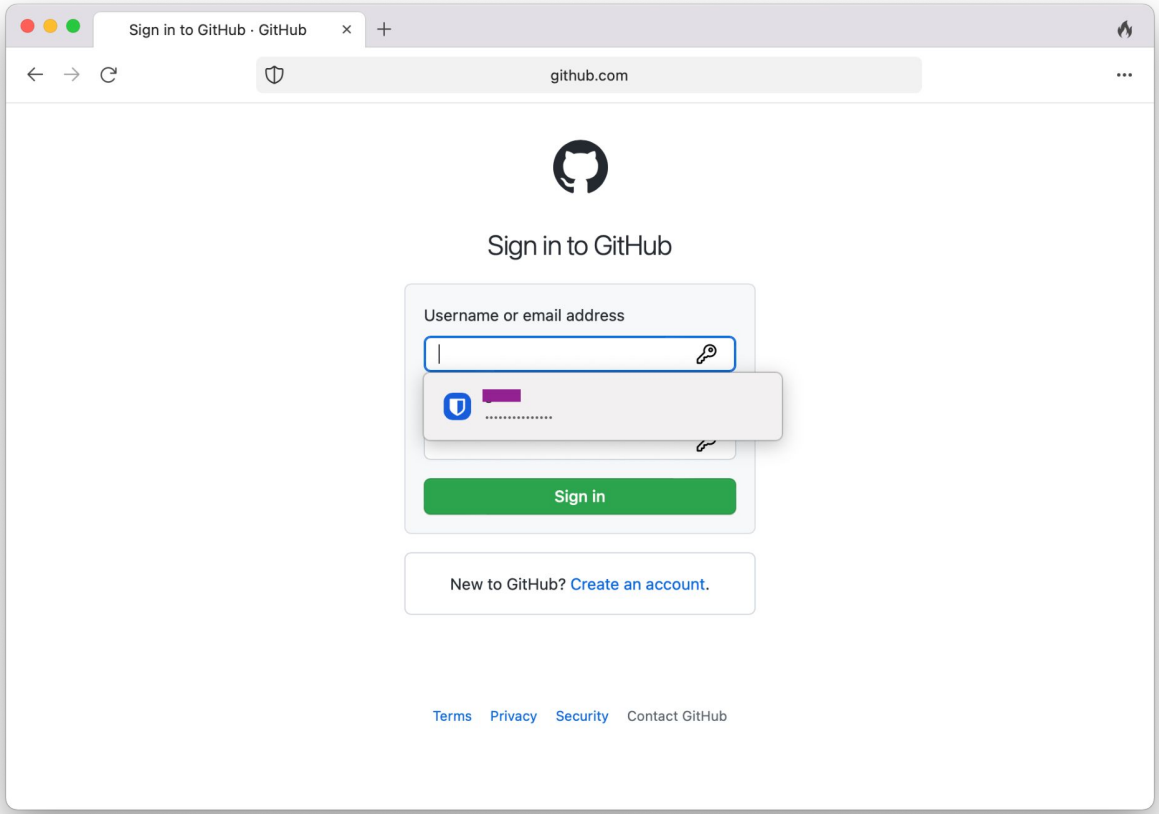
Desktop Application can remain in locked state for browser/biometrics

DuckDuckGo Browser

Bitwarden is the first password manager to launch with the new DuckDuckGo browser (beta for Mac)



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Keyboard Shortcuts!

Extra bonus - Bitwarden Send

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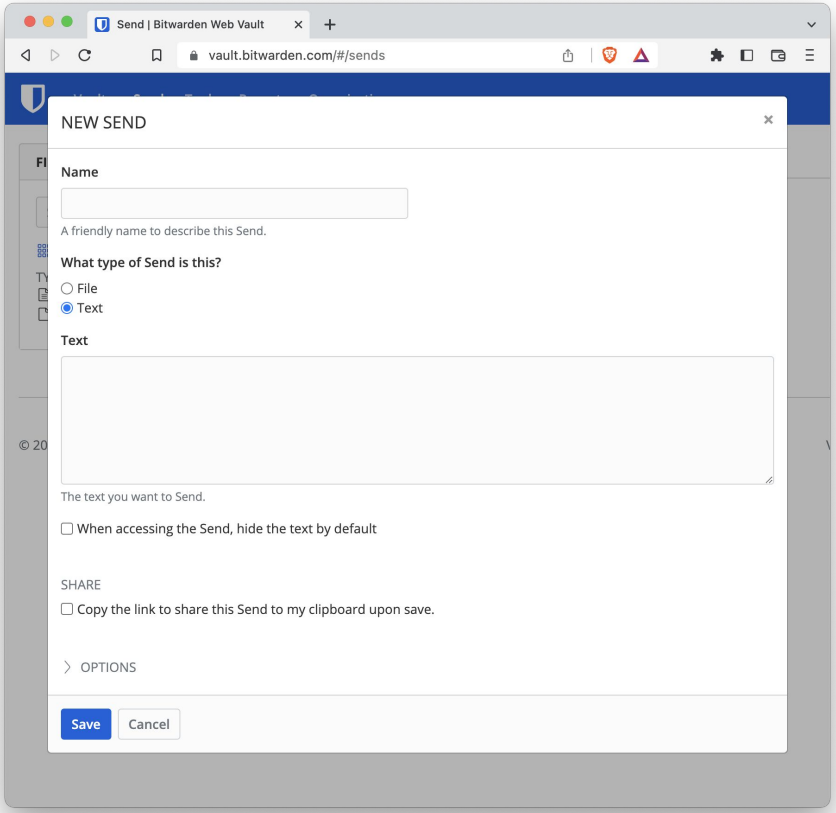
Bitwarden Send

End-to-end encrypted sharing with anyone!

Transmit text or files in a snap!



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Thank you!

Q&A

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