



Password Managers

Automating Your Security

Wikipedia Definition

- A password manager assists in generating and retrieving complex passwords, potentially storing such passwords in an encrypted database.
- Password managers commonly reside on the user's personal computer or mobile device, such as smart phones, in the form of a locally installed software application. These applications can be offline, wherein the password database is stored independently and locally on the same device as the password manager software. Alternatively, password managers may offer or require a cloud-based approach, wherein the password database is dependent on an online file hosting service and stored remotely, but handled by password management software installed on the user's device.
- An online password manager is a website that securely stores login details. They are a web-based version of more conventional desktop-based password manager.
- https://en.wikipedia.org/wiki/Password_manager

Products for Mac & iOS

- Apple's Keychain Access app for Mac, Safari Autofill for iOS, and iCloud Keychain
- Third-Party Solutions
 - LastPass - Free & Paid - <https://www.lastpass.com>
 - Dashlane - Free & Paid - <https://www.dashlane.com>
 - StickyPassword - Free & Paid - <https://www.stickypassword.com>
 - Keeper - Free & Paid - <https://www.keepersecurity.com>
 - 1Password - Paid - <https://1password.com>
 - mSecure - Free & Paid - <https://www.msecure.com>
 - RoboForm - Free & Paid - <https://www.roboform.com>
 - Password Boss - Free & Paid - <https://www.passwordboss.com>
 - Free versions may have showstoppers like limits on number of passwords, no on-line storage, and crippled features

Keychain Access App

- A Mac-only app found in the Applications>Utilities folder
- New password and secure note entries can be created manually
- When you access a website, email account, network server, or other password-protected item, you may be given the option to remember or save the password



Would you like to save this password?

You can view and remove saved passwords in Safari Passwords preferences.

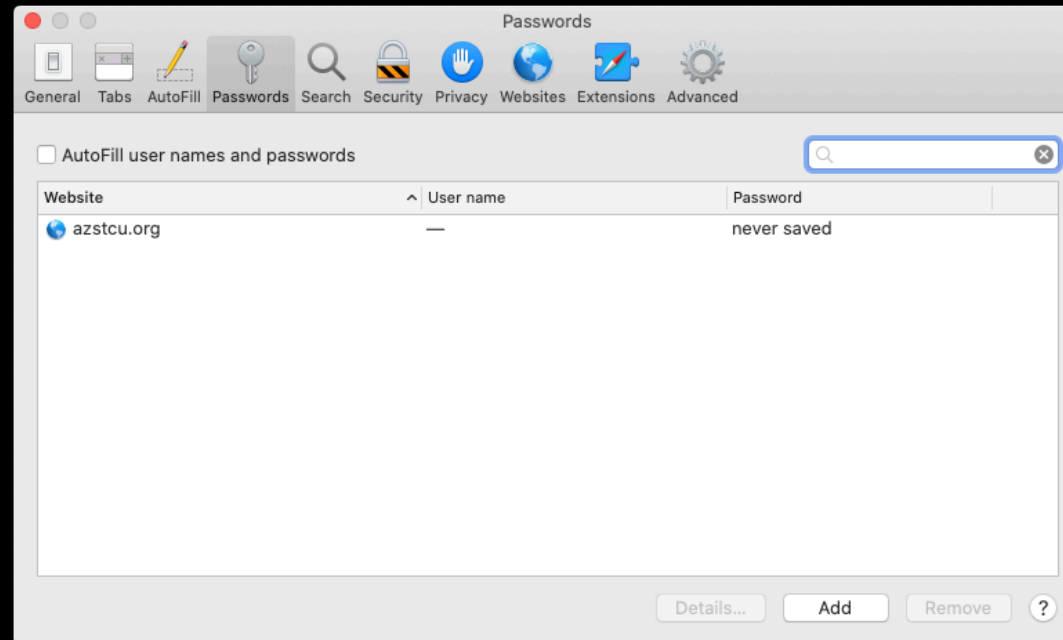
Never for This Website

Not Now

Save Password

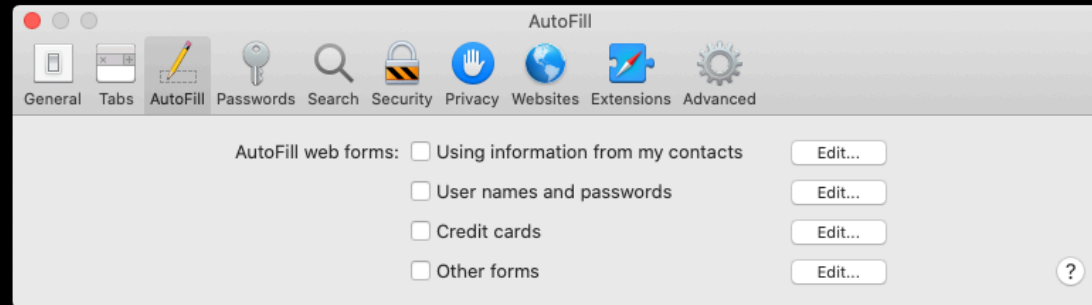
- <https://support.apple.com/guide/keychain-access/what-is-keychain-access-kyca1083/mac>

Safari Password Prefs



- Found in Mac Safari>Preferences>Passwords
- New entries can be created manually for a website including username and password
- Autofill will enter the username and password for you when you visit a website with an entry here
- <https://support.apple.com/guide/safari/passwords-sfri40599/mac>

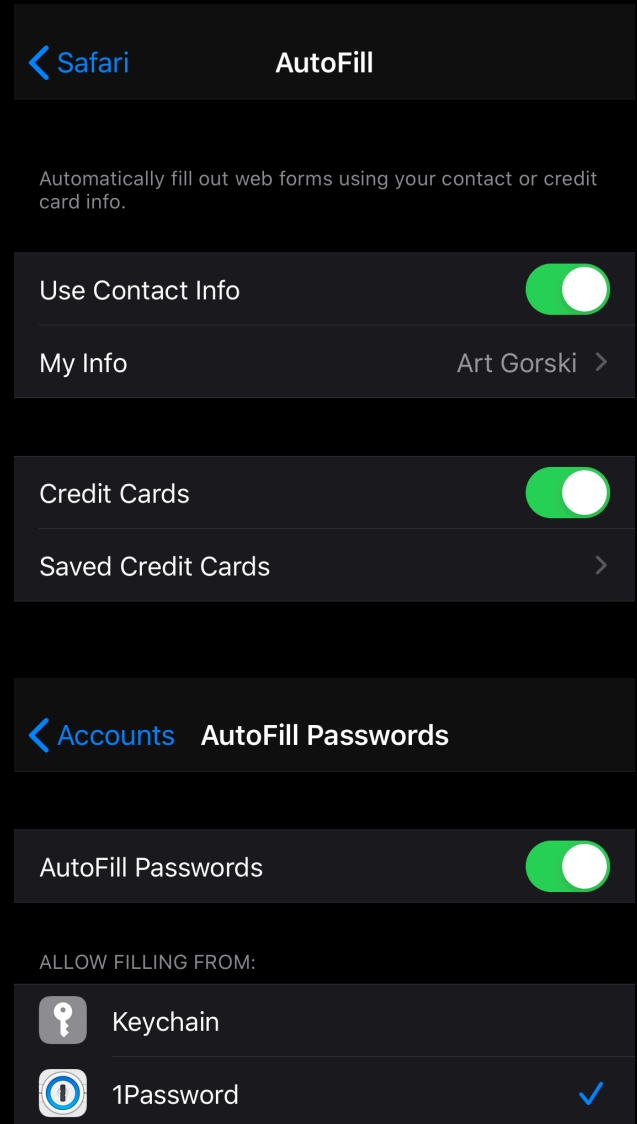
Safari Autofill Prefs



- Found in Mac Safari>Preferences>Autofill
- Complete forms with information from any contact card in Contacts
- Securely save user names and passwords you enter on webpages, then easily fill in the saved information when you revisit
- Securely save the credit card number, expiration date, and cardholder name you enter on webpages, then easily fill in the saved information when you use the card again
- Securely save information you enter on webpage forms, then easily fill in the saved information when you revisit
- <https://support.apple.com/guide/safari/autofill-ibrwa005/13.0/mac/10.15>

iOS Safari Autofill

- Automatically fill in credit card information, contact information, and user names and passwords
- AutoFill for your contact or credit card information: Go to Settings > Safari > AutoFill
- AutoFill for passwords: Go to Settings > Passwords & Accounts
- <https://support.apple.com/guide/iphone/automatically-fill-in-forms-iphccfb450b7/ios>





Website logins
Credit card numbers
Wi-Fi networks
Account information



iCloud Keychain

Your passwords and other secure information
updated across your devices

iCloud Keychain

- Uses your iCloud account and storage
- Stores credit card numbers and expiration dates—without storing or autofilling the security code—and passwords and usernames, Wi-Fi passwords, Internet accounts, and more. Developers can also update their apps to use keychain
- Protects your information with end-to-end encryption
- <https://support.apple.com/en-us/HT204085>

iOS Website and App Passwords

- For iOS to create and store passwords, iCloud Keychain must be turned on
- When you sign up for services on websites and in apps, you can let iPhone create strong passwords for many of your accounts, or you can create your own passwords.
- iOS stores the passwords in iCloud Keychain and fills them in for you automatically
- <https://support.apple.com/guide/iphone/create-website-and-app-passwords-iphf9219d8c9/ios>



1Password

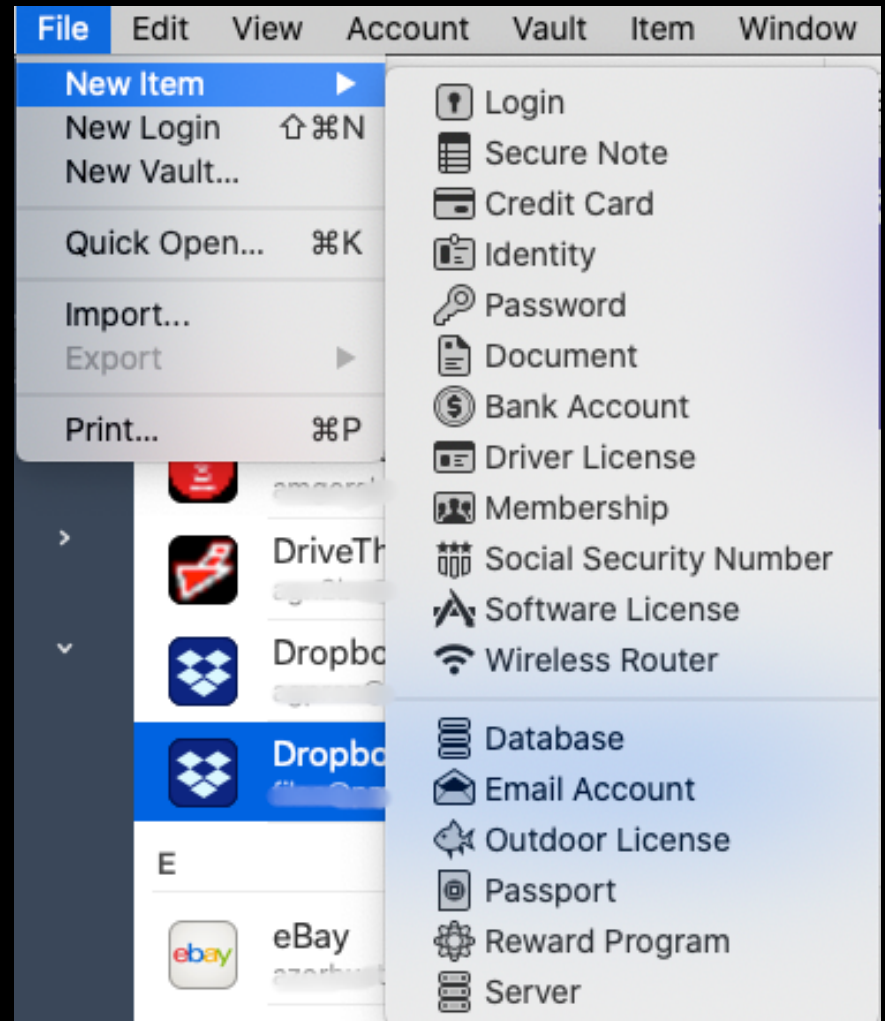
The 1Password you need to remember

Major Features

- You only ever need to memorize one password. All your other passwords and important information are protected by your Master Password
- Logins and private documents are securely stored in your password vault. The family plan lets you share a vault.
- 1Password offers to create new entries when you sign in to apps and websites allowing you to sign in to your online accounts with a single click, look, or touch
- Watchtower keeps track of password breaches and other security problems so you can keep your accounts safe. It checks for weak, compromised, or duplicated passwords and lets you know which sites are missing two-factor authentication or using unsecured HTTP

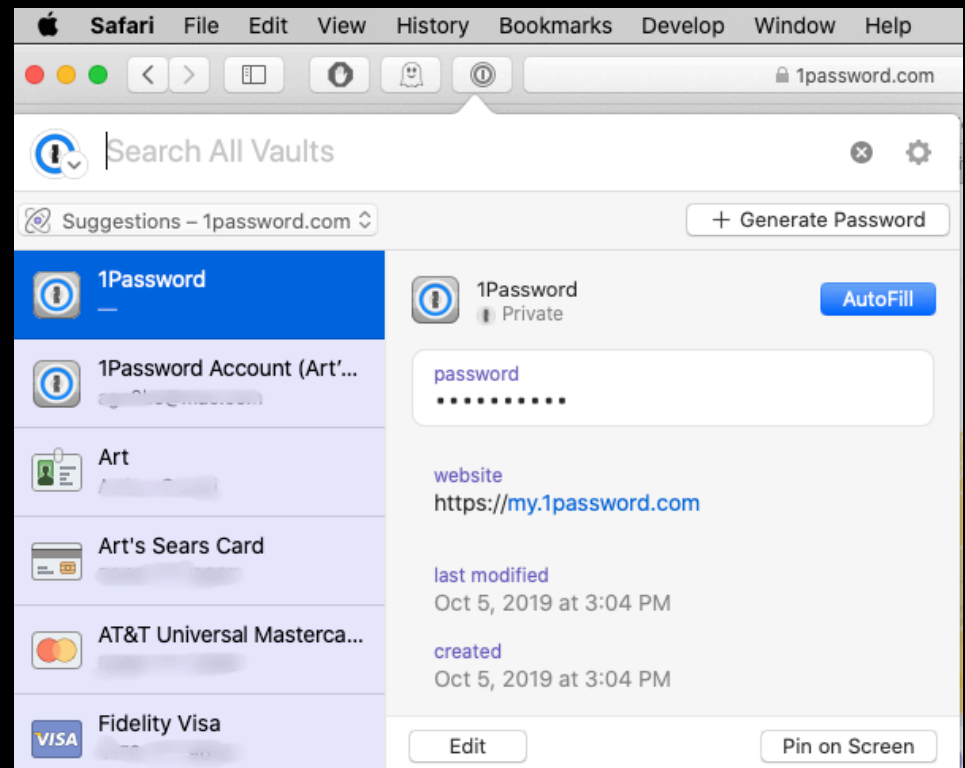
1 Password Items

- While logins can be created automatically, manually create items for other types
- Each type includes specialized fields for data entry
- Fields are customizable
- Images can be attached to an item, like a scan of a driver's license
- Items can be used to fill in on-line forms, like an Identity and a Credit Card when purchasing



1Password Extensions

- Available for Mac and iOS and other platforms
- Access 1Password without launching the App using 1Password Mini
- On the Mac, it automatically detects the app or website you have open and suggests relevant logins and passwords to fill.
- To open 1Password mini, click the 1Password icon in the menu bar or your browser's toolbar



Plans

- 1Password - \$2.99/month
 - Apps for Mac, iOS, Windows, Android, Linux, and Chrome OS
 - Unlimited passwords, items, and 1 GB document storage
 - Friendly 24/7 email support
 - 365 day item history to restore deleted passwords
 - Travel Mode to safely cross borders
 - Two-factor authentication for an extra layer of protection
- 1Password Family - \$4.99/month. All the 1Password features, plus...
 - Share with 5 family members from any household. Invite more for \$1 each
 - Invite up to 5 guests for limited sharing
 - Share passwords, credit cards, secure notes, and more
 - Manage what family members can see and do
 - Recover accounts for locked out family members

