

Passwords

How to manage them.

How we may get rid of them completely
with Passkeys.

You need a way to identify yourself to computer programs and remote sites.

The traditional method is a username and password.

Cartoon removed

Password Managers

Password managers will remember your password and fill it in for you.

- automatically log you into websites, services, accounts
- provide security reports such as weak passwords, leaked password and information on unsafe websites
- allow you to carry your passwords with you.

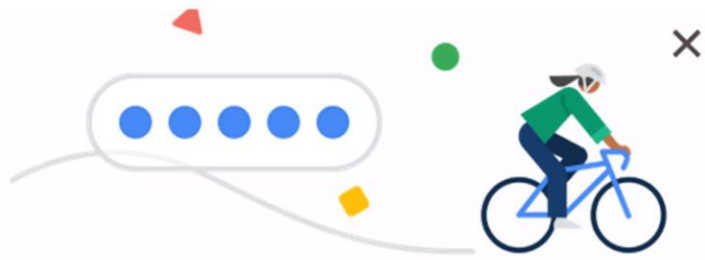
Web Browsers


Web Browsers include easy to use Password Managers (Chrome, Safari, Edge, Firefox, Brave ...).

Web browsers will ask if you want to save the password the first time you enter a new site.

If you say yes, your password is saved by the browser and automatically inserted when you next go to the site.

Your passwords will be available across devices. For example a password saved on a PC using Google Chrome will also be available on your mobile phone and even on your iPad/iPhone if you use Chrome.



 Save password?

Username

Password

Save

Never


You can use saved passwords on any device. They're saved to [Google Password Manager](#) for jcameron_448@hotmail.com.


Chrome

Edge

Save password ✕

Microsoft Edge will save this password to your Microsoft account

jcameron_448@h...  Edit

 Get warned if your saved passwords are found in an online leak

Got it

Never

Would you like to save this password in your iCloud Keychain to use across apps and websites on all your devices?

You can view and remove saved passwords in Passwords settings.

Save Password

Never for This Website

Not Now

Safari

Stand alone Password Managers

1Password, LastPass, Keeper and others. These work across all hardware platforms. They require a browser extension to be loaded. Can import passwords from browsers.

Some have a limited free version, for example Lastpass. Full version require payment. Prices range from about \$50 to \$120 per year.

They usually have more options than the browser based versions. For example, shared passwords with other people, and digital inheritance where the password manager also stores your documents.

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Passkeys – a new access method

Passkeys are a new way to log in to a remote site. They replace passwords.

Passkeys depend on you having a computer device that you control.

To set up a new Passkey to a remote site a secure connection is made between your device and the remote web site. Both ends store cryptography keys allowing for future secure connections between **your device** and the remote site.

Then whenever you log in, your device checks it really is you. It then sends your authorization over the secure link. ID methods for the device are typically:

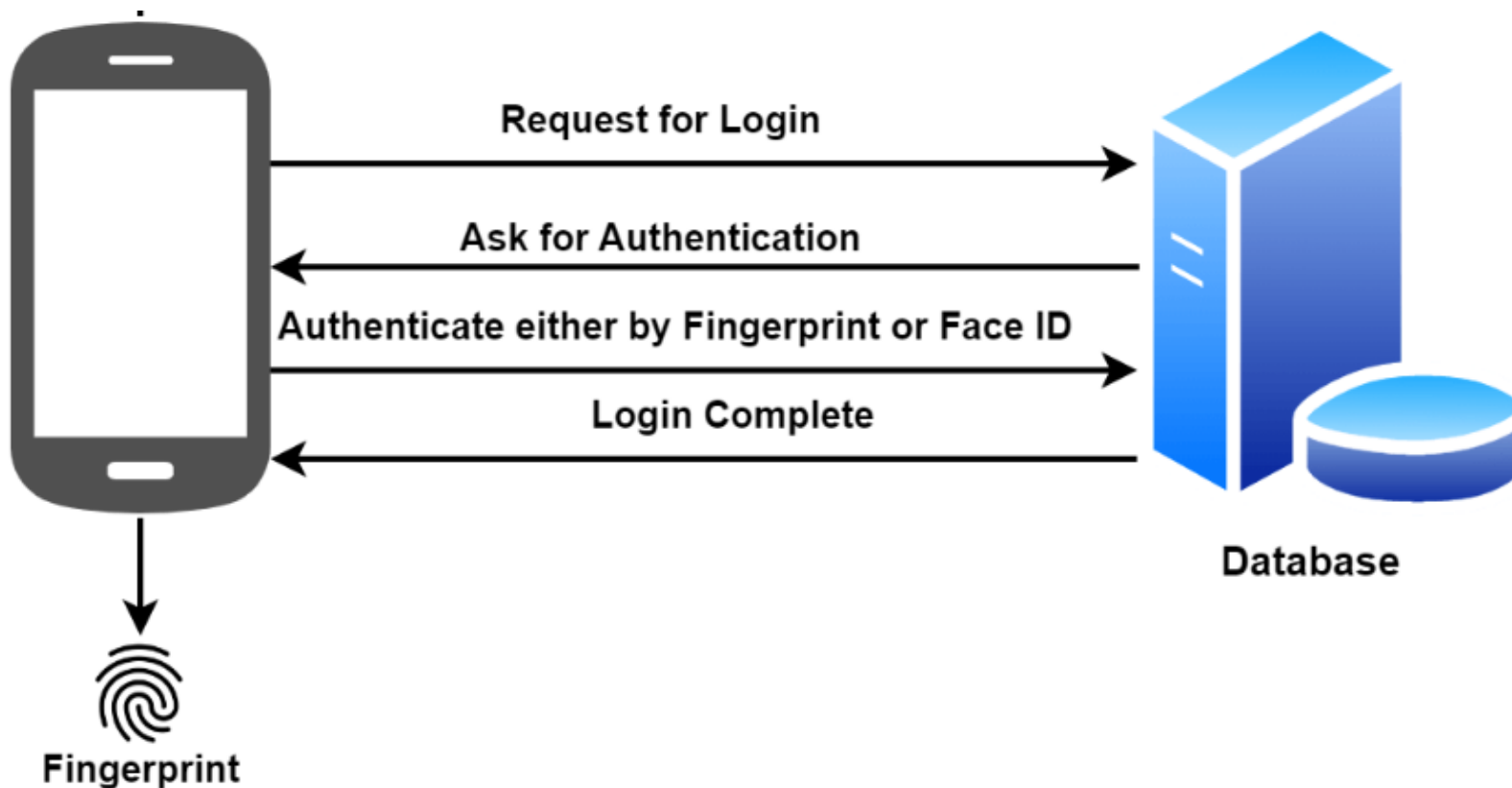
- Face Identification
- Fingerprint
- PIN code – 4 or more letters or numbers

Passkeys

The Passkey securely links your device to the remote site using public key cryptography.

The remote site can then trust that if your device says it is you, it really is you.

There is no phishing, guessing of passwords, or hacking of the remote site.





Passkeys.io by HANKO

WebAuthn.io

A demo of the WebAuthn specification

johnwis

Success! Now try to authenticate...

Register

Authenticate

Advanced Settings

Where are Passkeys stored

By default, when Passkeys are created they are stored as follows:

- On Apple devices on iCloud Keychain.
- On Android devices in Google Password Manager.
- On Windows in Windows Hello.

Third party Password Managers, 1Password, Keeper etc manage their own Passkeys.

There is currently no easy way to move Passkeys between storage types.

What Web sites support Passkeys

Currently limited, About 150 sites. Sites include Apple, Adobe, Amazon, eBay, Google, GitHub, LinkedIn, PayPal, TikTok, Microsoft, Nintendo, WhatsApp, Shop by Shopify and Uber. There appears to be no Australian .au sites.

(<https://passkeys.directory/>)

← Passkeys



Start using your passkeys

With passkeys you can now use your fingerprint, face, or screen lock to verify it's really you

Use passkeys

Passkeys enable you to securely sign in to your Google Account using your fingerprint, face, screen lock, or hardware security key. Only set up passkeys on devices you own. [Learn more](#) ⓘ

Automatically created passkeys

Android devices automatically create passkeys for you when you sign in to your Google Account. [Manage devices](#)



Galaxy A53 5G

Last used: Not yet used

+ Create a passkey

Q&A Passkeys

- **Will passkeys completely replace passwords?** – No, you can use both. It will be a very long time (if ever) before all sites accept Passkeys.
- **Is opting-into passkey mandatory?** – No, you can keep using your password.
- **Do I need to set up passkeys on all my devices individually?** – You will need separate passkeys on each device type unless the devices are synchronised. If you need to go across multiple device types use 1Password or Keeper.
- **Can I have multiple Passkeys for the same remote site.** Yes, you can create more than 1 passkey to the same remote site.
- **What is the account recovery process if I lose my device?** In worst case you will need to use email account recovery with a one time password (Magic Link Login).

Questions

OpenID Connect

If you are already be logged into your Google/Apple/Facebook account this account can act as your “Identity Provider”. Security on these core accounts is critical.


The remote site gets sent your email address or phone number and possibly other information.


What's your phone number or email?


Enter phone number or email

Continue

or

 Continue with Google

 Continue with Apple

 Continue with Facebook

By proceeding, you consent to get calls and WhatsApp or SMS messages, including by automated means, from Uber and its affiliates to the number provided.

This site is protected by reCAPTCHA and the Google [Privacy Policy](#) and [Terms of Service](#) apply.

Good sites Feb 2024

[Passwords vs. Passkeys - FIDO Bites Back! \(youtube.com\)](#) – OK 10m

[1Password Passkey Tutorial | How to Use Passkeys in 1Password \(youtube.com\)](#) 1:15 onwards

[Google Passkeys Have Arrived \(here's how to use them\) \(youtube.com\)](#)

[Goodbye Passwords! Hello Passkeys \(youtube.com\)](#) (0:30 onwards)

[What Are Passkeys? - Are Passwords Going EOL?! \(youtube.com\)](#)

[White Paper: Multi-Device FIDO Credentials - FIDO Alliance](#)

[Passkeys explained! My take on Google's password killer... \(youtube.com\)](#)