

# Go Passwordless with Passkeys

A WebAuthn Developer Workshop







## Introductions





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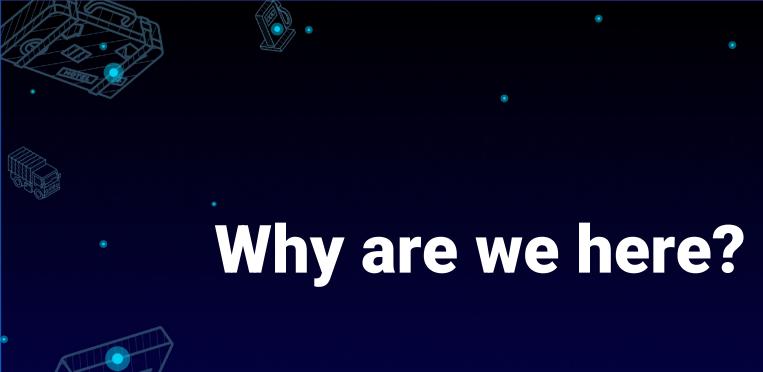


### **Today's Agenda**

- Why are we here?
- What is a passkey?
- Do you already have MFA?
  Here's what do to

- Evolve into passwordless demo time!
- Developer Gotchas & Myths
- Key Takeaways
- Q&A













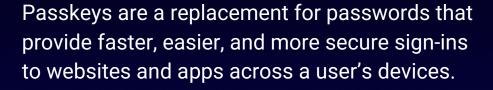








noun



https://fidoalliance.org/passkeys/







### **Embraced by platforms**

- and credential providers...















identiverse\*

### ...and online services

**DocuSign** 











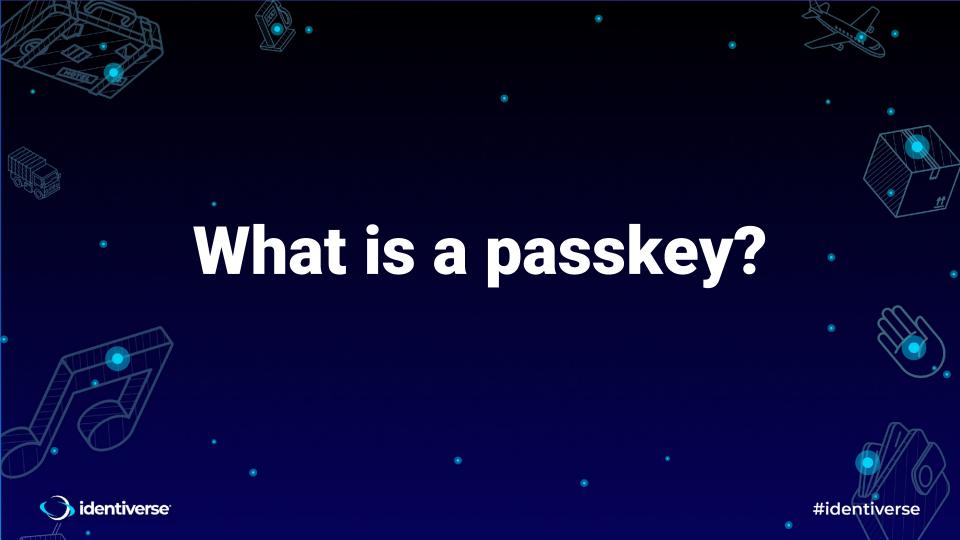










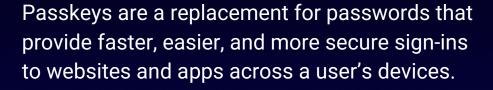








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### Let's unpack that marketing definition a bit...

#### A passkey:

- Is any discoverable FIDO credential
- Raises the bar for both security and UX
- Is most commonly synchronized across a user's devices





### **Synced Passkeys**

A passkey that can be backed up and synchronized by the passkey provider across a user's devices.



- A passkey provider might be a platform/OS vendor, or 3rd-party software such as a password manager.
- Facilitates new device bootstrapping and simplifies account recovery.
- Security of synced passkeys is the responsibility of the passkey provider.



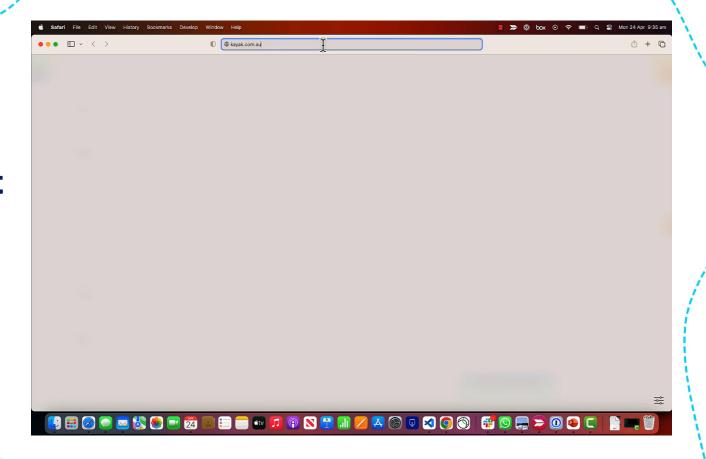
### But wait, don't I still need 2FA?

- 2FA was introduced to address the human-behavioural weaknesses associated with passwords leading to account takeover:
  - Simple, guessable or socially engineerable passwords
  - Password re-use
- FIDO credentials address these problems AND credential phishing

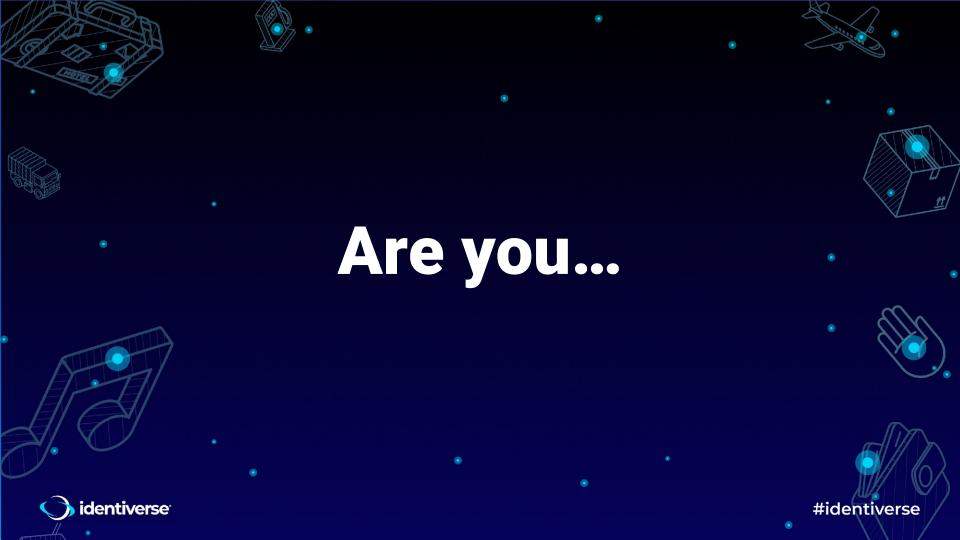




Let's look at a passkey in action...







### ...Already doing MFA?

- If you're already using WebAuthn as a 2FA method, you're all set to use passkeys!
- · WebAuthn requests, without express disablement, can support passkey creation and login.
- This doesn't need to be an all or none scenario, in fact we recommend a rolling deployment.

()

### ...Not doing MFA at all?

#### If you don't, now is the time to cut over to passkeys:

- Offer more secure login covering 95%<sup>[1]</sup> of typical security requirements.
- Eliminate SMS expenses by removing SMS OTP entirely.
- Users are already comfortable with biometrics from using them with mobile apps.
- · Users now bring their own hardware authenticators!

[1] https://techcommunity.microsoft.com/t5/microsoft-entra-azure-ad-blog/all-your-creds-are-belong-to-us/ba-p/855124









## **Demo Time**



identiverse •



### **Developer Gotchas**

- Conditional UI fires a WebAuthn request on first load.
  - Can make correlation of events difficult.
  - Conditional UI in general is still a work in progress.
- Passkey Providers have to inject themselves into the DOM.
  - Disabling JavaScript or extensions can cause some providers to be unable to operate.
- There's limited ways to infer the type of passkey you'll receive before you receive it.



### **Developer Myths**

- Passkeys are vendor-specific! X
  - Vendors support passkeys, but don't own the standard.
  - Most users associate passkeys with Google, which can be good and bad.
- Passkeys replace WebAuthn! X
  - The WebAuthn standard covers the browser API that manages passkeys..
- Passkeys are only for phones! X
  - Passkeys can sync to devices of multiple form factors
  - They can also be device-bound
  - Imagine hybrid auth into an app on your TV...



### **Developer Myths, pt. 2**

- All passkeys are synced. X
  - A hardware token can issue you a device-bound passkey.
- I can't apply corporate policy with passkeys! X
  - If you control the endpoint, you can control the passkey...
- I can't support passkeys without attestation! X
  - Attestation can provide some assurances about authenticator identity, but the technology is more secure than typical password + 2FA techniques.
  - RP's in stricter regulatory environments can use existing out-of-band techniques for preventing passkey misuse.





## So what's next?





### **Key Takeaways**

#### Passkeys are...

- Already being used at scale.
- Still phishing-resistant WebAuthn credentials.
  - Add features to reduce with account recovery the need for password resets.
- A superior alternative to MFA, and the means to move towards passwordless
- Easy to drop in and ready for browsers, especially if you're already using WebAuthn.



### Resources

#### Learn more about adding passkeys to your site.

- For Developers:
  - https://passkeys.dev
  - https://webauthn.io
- For CXOs:
  - https://fidoalliance.org/passkeys/



Feel free to reach out to us!





