

Passkeys

Security – Passkeys in Django

Your Passwordless future

Makai Kahilu

Security – Physical World



Authentication

- Who are you? | Prove it.

Security – Digital World

Create your account and start your journey with us.

Email*

Email address

Password*

Password

- Your password can't be too similar to your other personal information.
- Your password must contain at least 8 characters.
- Your password can't be a commonly used password.
- Your password can't be entirely numeric.

Sign up

Passkeys

Email*

makaikahilu4@gmail.com

Password*

[Forgot your password?](#)

Log in



Use Passkey

Troubles with Passwords



Problems with Passwords

- Unique - Credential Stuffing
- Complex - Remember?
- Fresh - Guessable
- Don't click on links – Phishing
- Hashed + Salted - Replayed

Helpful Solutions

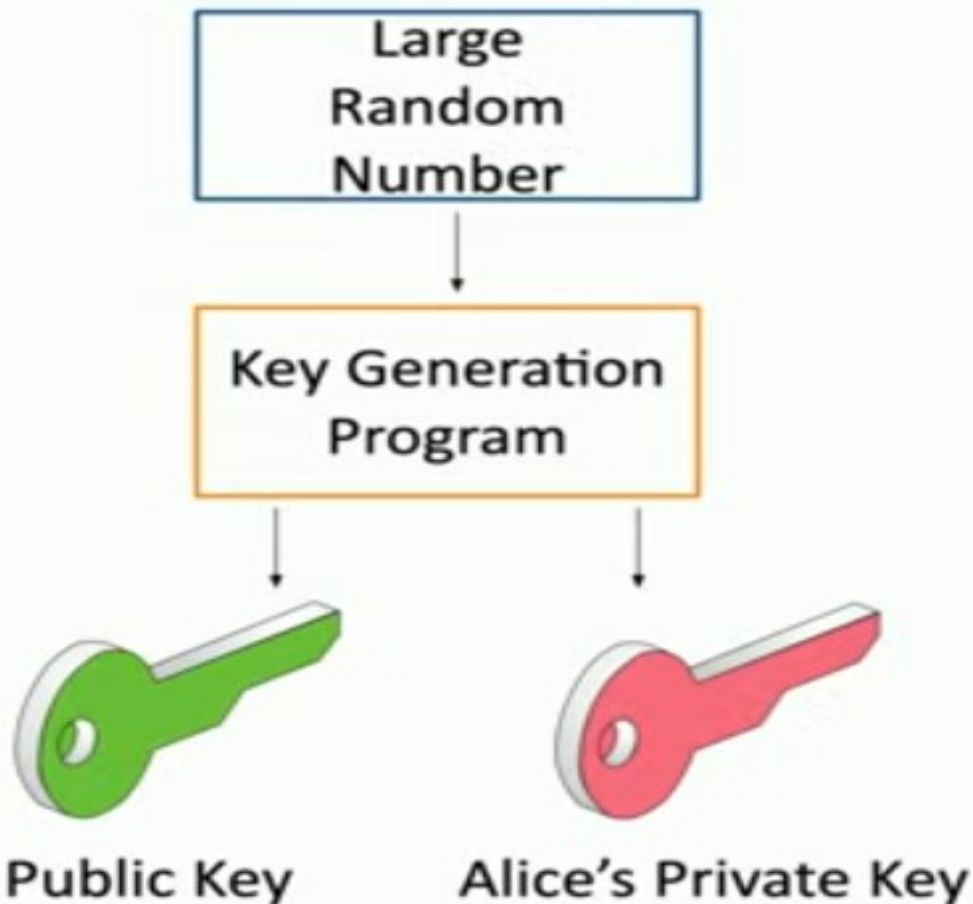
- Password Managers
- Multi-factor authentication
- Single Sign-On

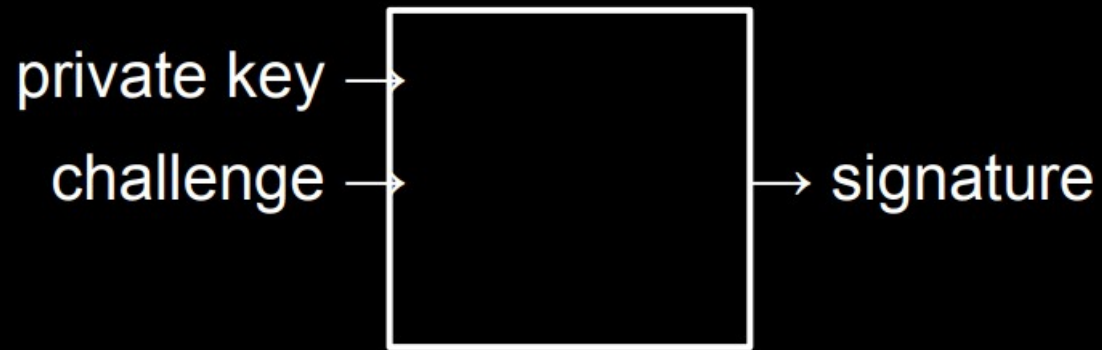
Truth: Passwords are a liability to both developers & Users

- Passkeys
- WebAuth
- FIDO - 2013
- +250 Organisations
- ?

Public Key Cryptography

Alice's Key Generation





We want to be happy

-Security, Usability & business



Big Question: Integrate into Django?

- django-webauthn
- Django-passkeys - demo
- django-fido2
- django-mfa2
- wagtail-passkeys

Django-passkeys : Checklist

- Pip nstall django-passkeys
- Pip freeze > requirements.txt
- Import & add “passkeys” settings.py
- Tweak “AUTHENTICATION_BACKENDS” to allow passkeys
- Tweak passkey server – settings.py
- Wire in the url – in project’s urls.py
- Add “passkeys.js” to login.html
- Other conditional UIs, if you need them.

Let us go for a Spin

- Did we break our app or It is still working?
- Let us try to click on “**use passkey**” button
- I Promised - Passkeys into Django, check mark?

Resources

- **Django-passkeys:** <https://github.com/mkalioby/django-passkeys>
- **Beginner:** <https://developers.google.com/identity/passkeys/>
- **Learn:** <https://www.passkeys.com/what-is-webauthn>
- **Learn:** <https://www.passkeycentral.org/introduction-to-passkeys/how-passkeys-work>



Thank you

- X : @makaiJnr
- Github: <https://github.com/makai77>