

# TeleTrusT-Konferenz

28.06.2022, Berlin

# FIDO: Passkey as a Platform-independent Passwordless Sign-in Mechanism

Dirk Balfanz • Google

# FIDO Authenticators come in different shapes and sizes

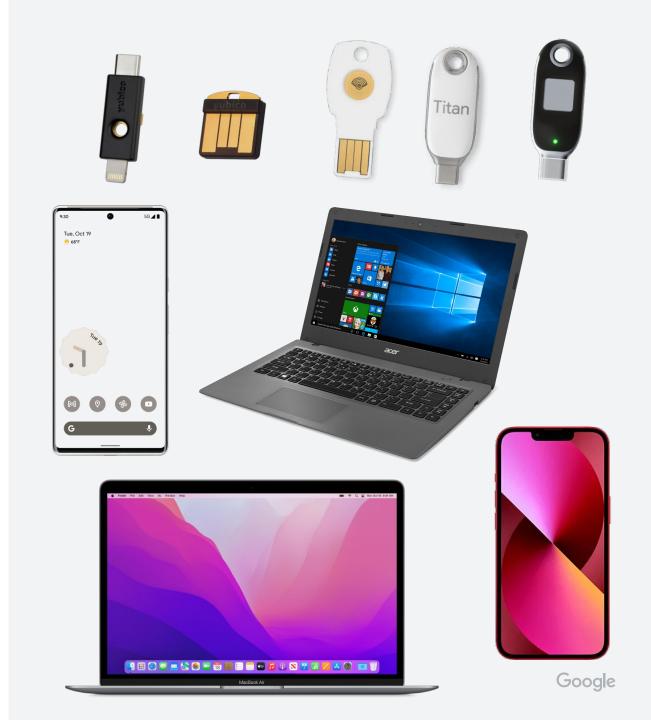
Some are dedicated devices.

Some are built into general-purpose devices.

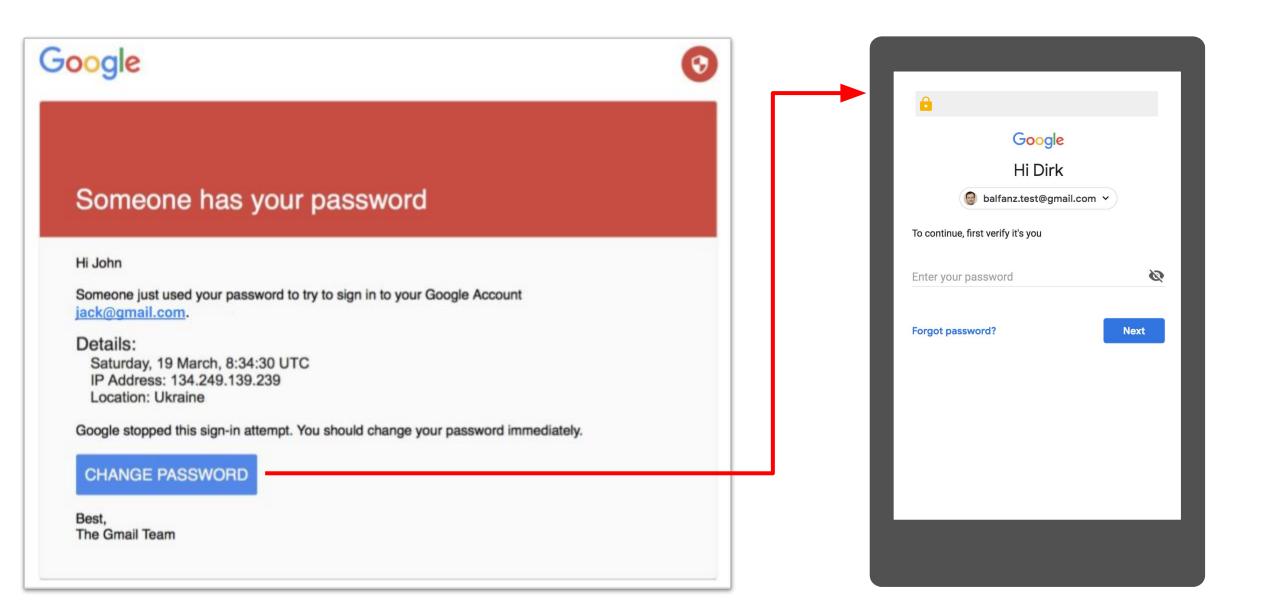


# FIDO Authenticators come in different shapes and sizes

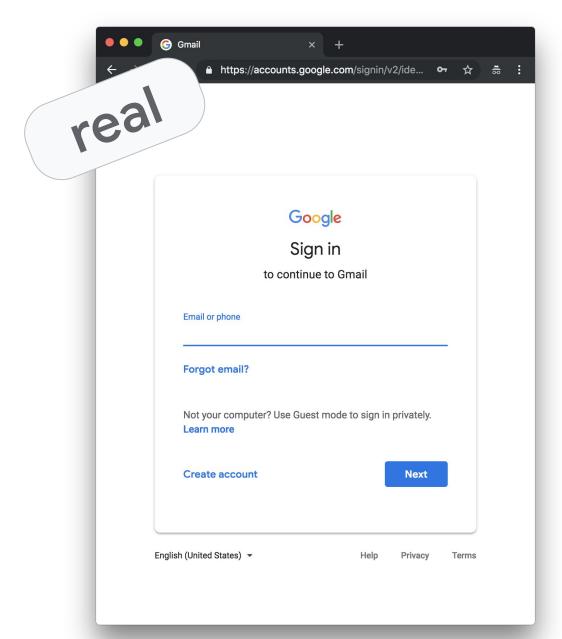
But all implement the *phishing-resistant* FIDO standard.

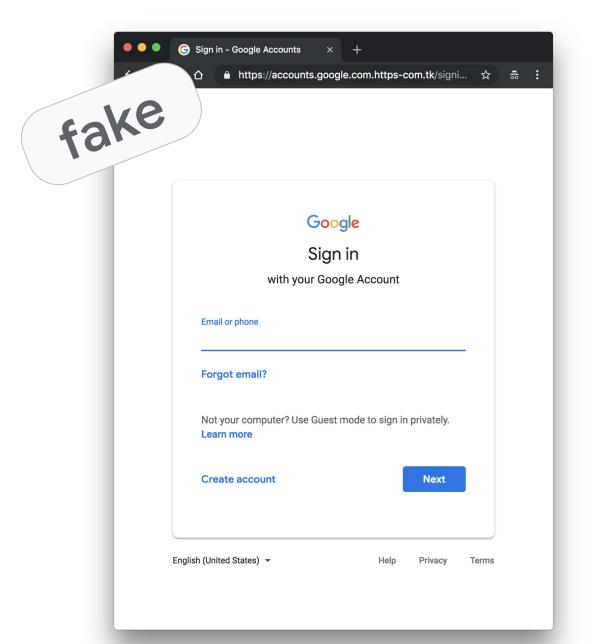


# MFA ≠ Phishing-Resistant

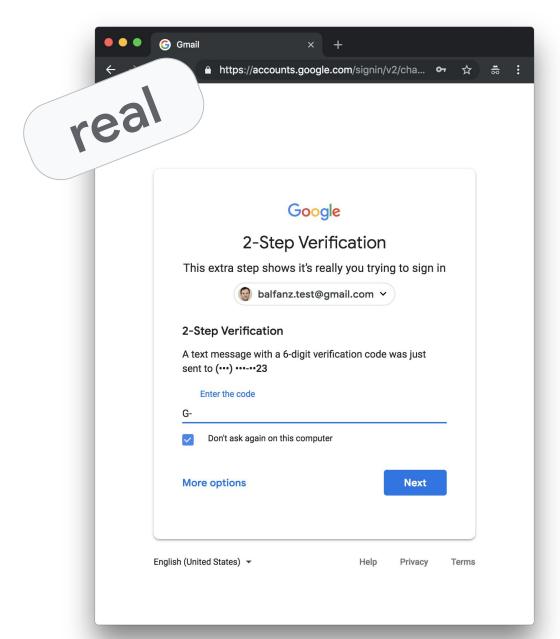


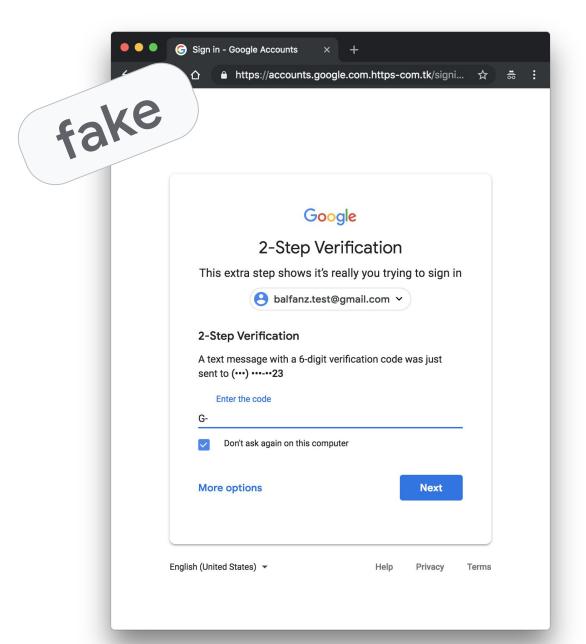
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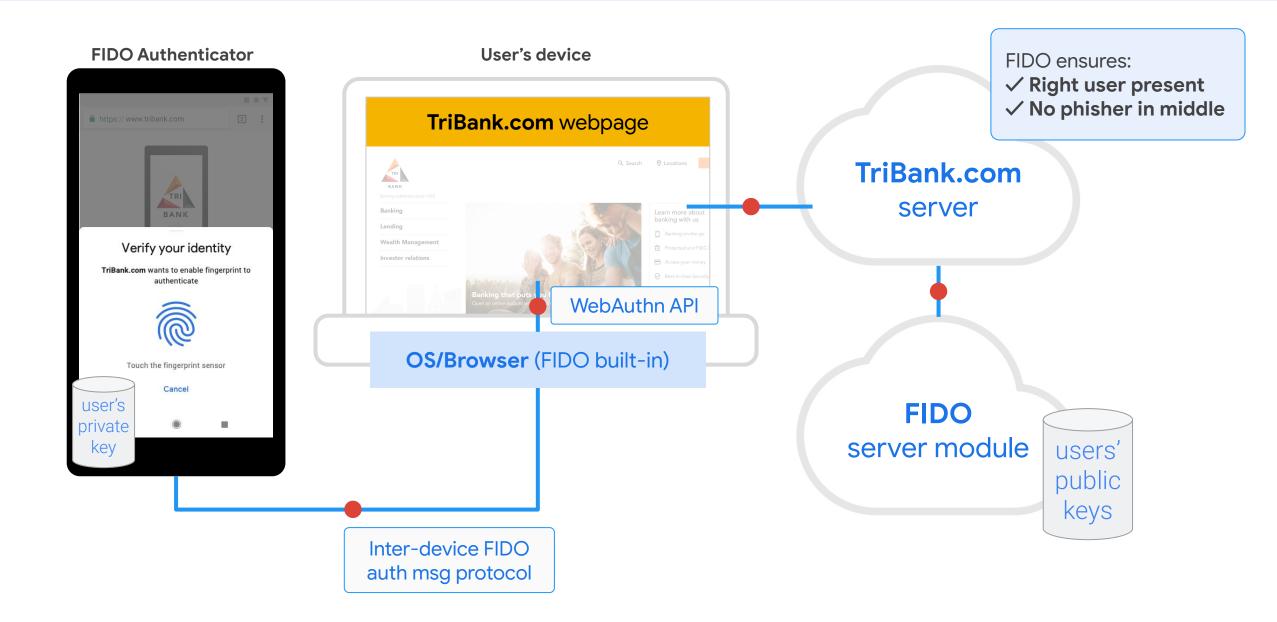


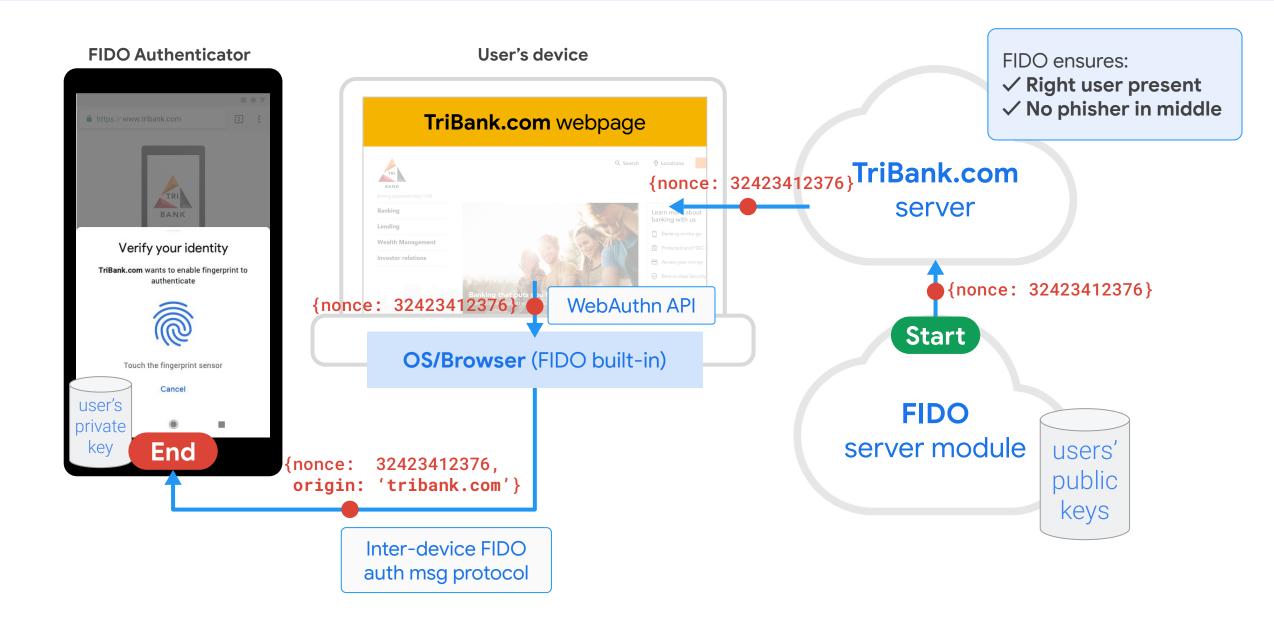


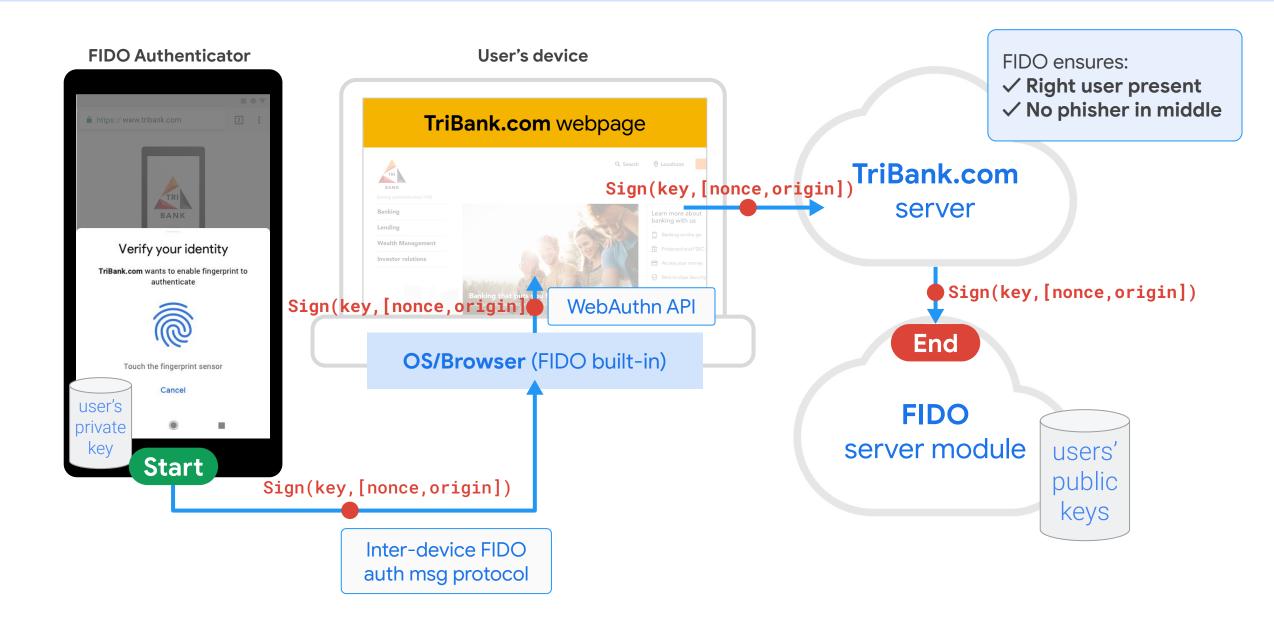
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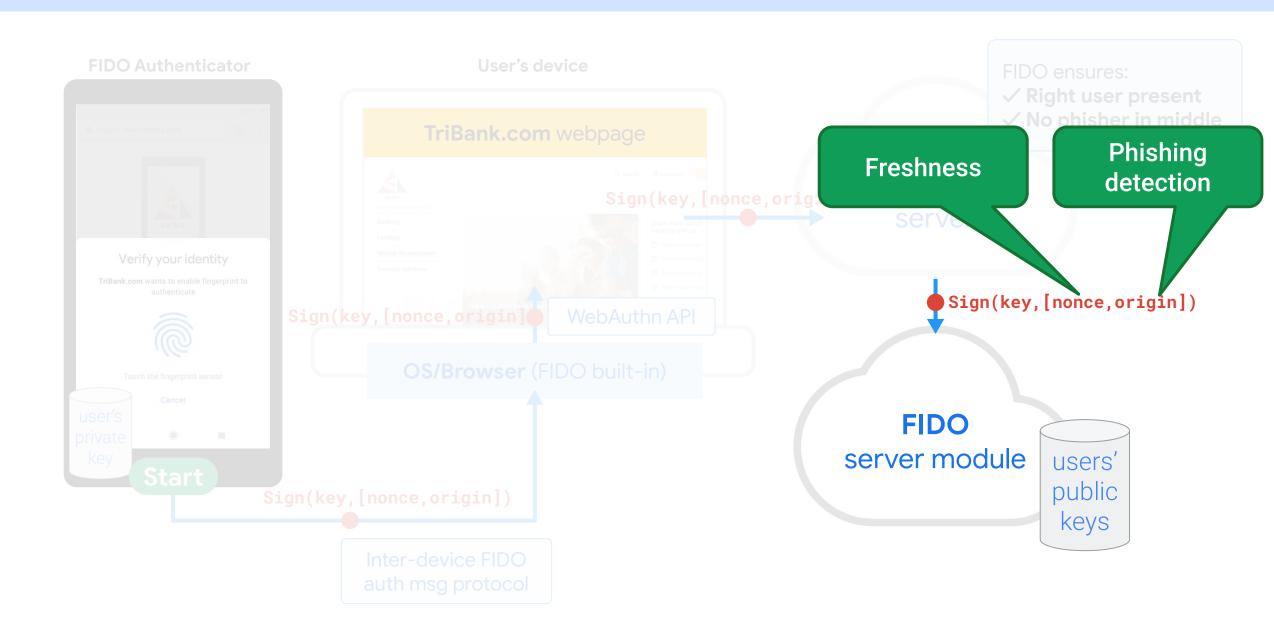




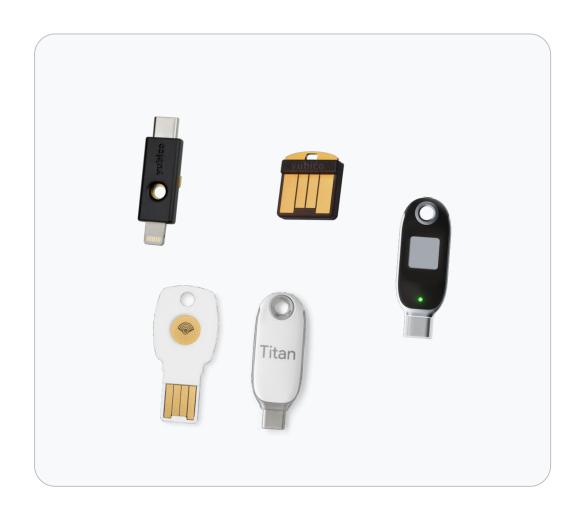








# FIDO before passkeys





security keys

platform authenticators

# FIDO before passkeys

Great alternative to smart cards

- accessible from web
- no readers needed

Great alternative to other second factors

phishing resistant

Adopted in high-security scenarios (e.g., Google's Advanced Protection program) as MFA solution.

Simple & secure biometrics-triggered sign-in

Useful as re-authentication on devices where the user has signed in some other way beforehand.

## FIDO before passkeys

Still too expensive / cumbersome for most.

Used with, not instead of, passwords.

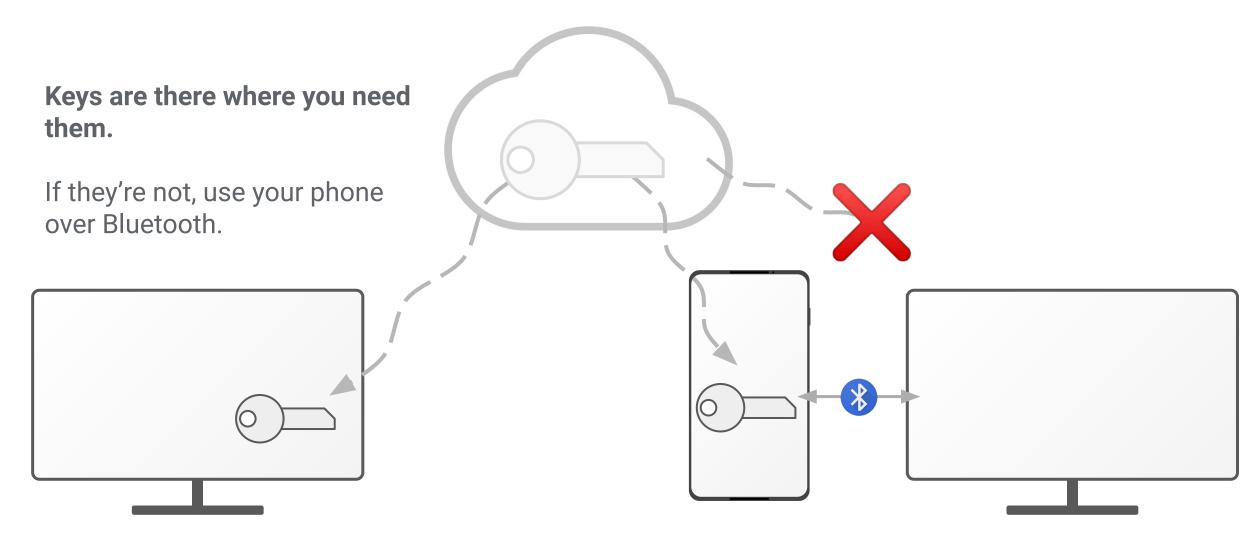
Not available on new devices.

Used with, not instead of, passwords.

# FIDO with passkeys

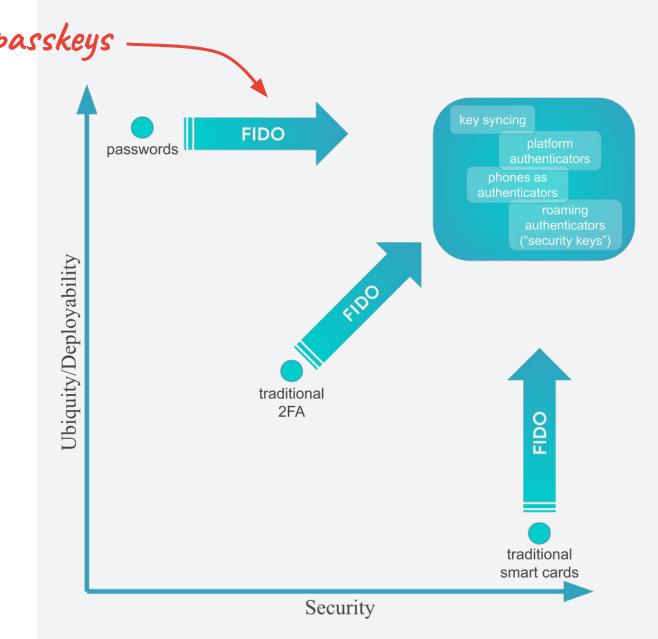


# FIDO with passkeys



# Passkeys

FIDO credentials that *replace* the password, rather than *accompany* the password.



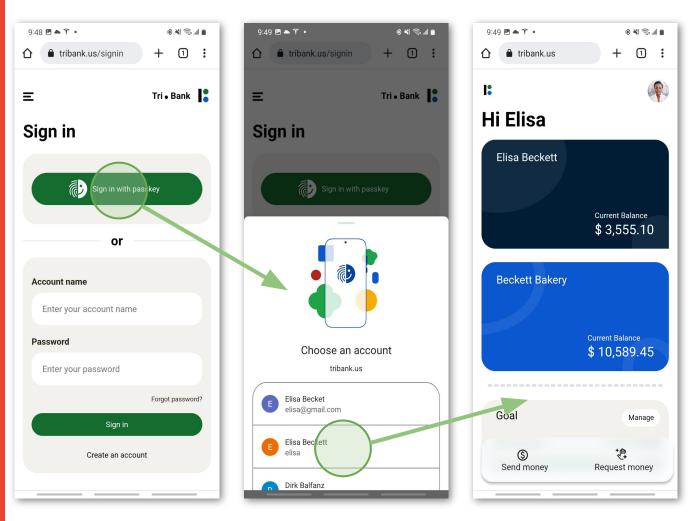
# Authentication for app developers

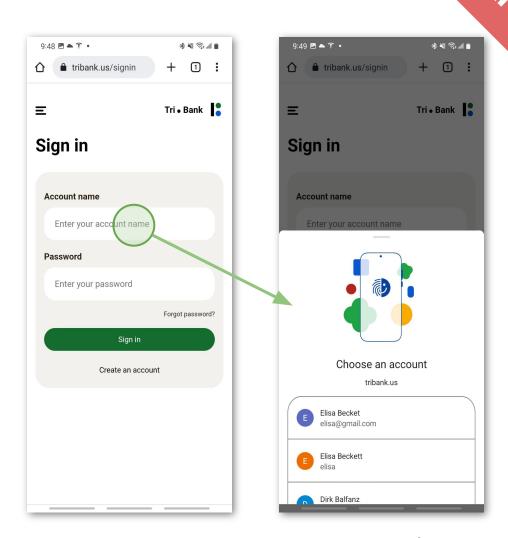






### Passkeys can be used *instead* of passwords





UX pattern #1: with a dedicated passkey button

UX pattern #2: integrated into password form

# Thanks!