



Protect your Tokens!
FIDO won't help you!



AGENDA

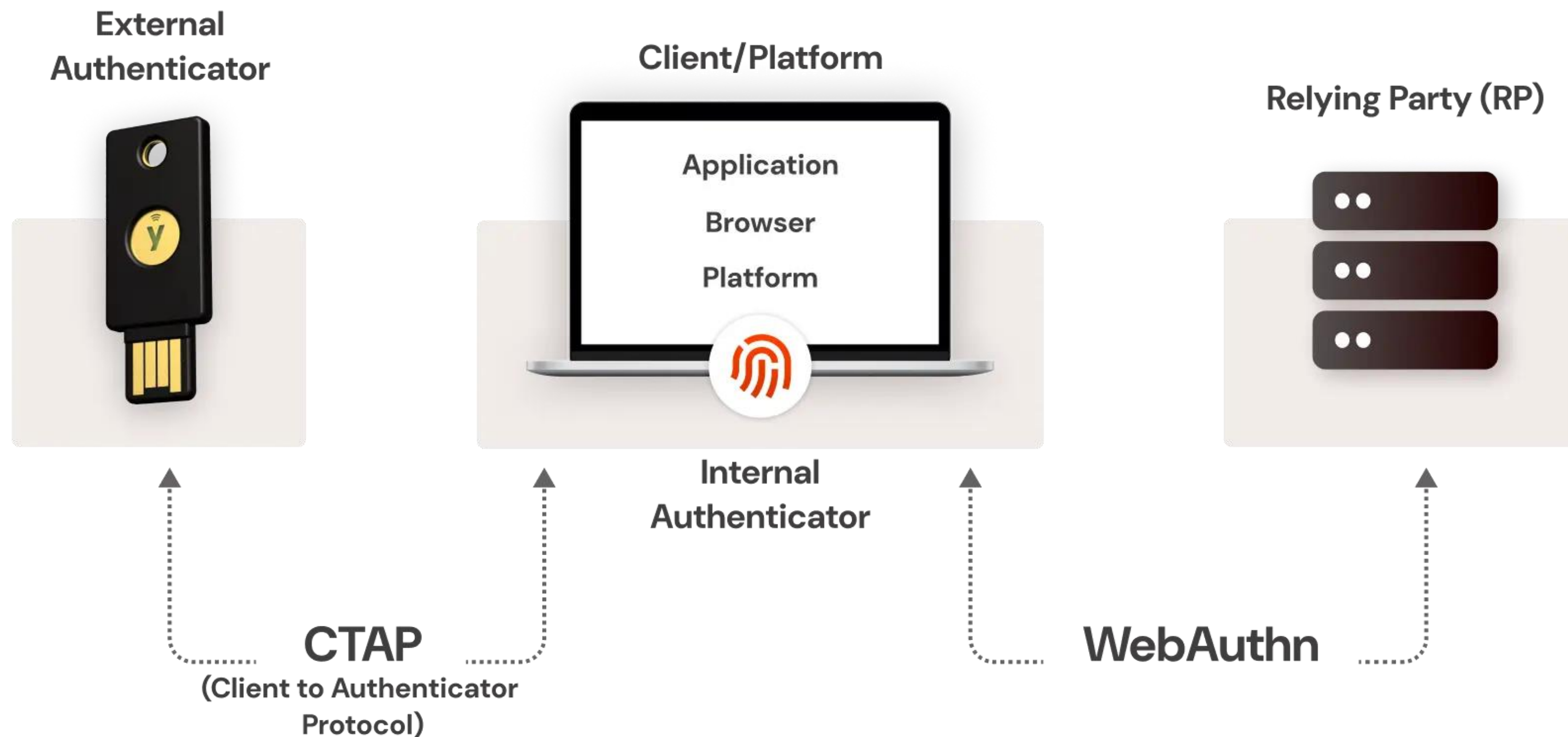
- 01** What can (and can't) FIDO2 do?

- 02** How do Tokens in Entra ID work?

- 03** How can Tokens be abused?

- 04** What can we do to protect Tokens?

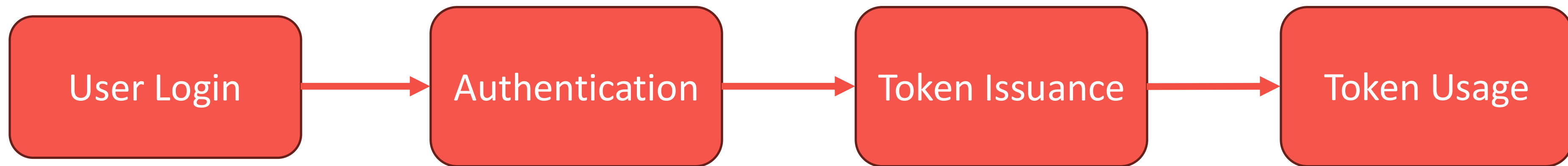
> What is FIDO2?



FIDO2 advantages

- Passwordless
- Phishing resistance
- Ease of use
- Public-key Authentication based

Sign-In Flow



Sign in

marco.schmidt@grabx.ch

No account? [Create one!](#)

[Can't access your account?](#)

Next



← marco.schmidt@grabx.ch

Enter password

.....

Other



marco.schmidt@grabx.ch

Approve sign in request

 Open your Authenticator app and approve the request. Enter the number if prompted.

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Didn't receive a sign-in request? **Swipe down to refresh** the content in your app.

Token Terminology

- Primary Refresh Token (PRT)
- Refresh Token (RT)
- Access Token (AT)
- Entra ID Continuous Access Evaluation (CAE)
- Entra ID Token Protection

> Token Lifetimes

Token Type	Lifetime	Comment
Primary Refresh Token	14 days	
Refresh Tokens	90 days	There is also a special type called “Family Refresh Tokens” which is not documented by MS
Access Tokens	1 hour	
Access Tokens (CAE)	24 hours	Access Tokens that are issued to CAE compatible Apps

CA Policies PRT

<https://learn.microsoft.com/en-us/entra/identity/devices/concept-primary-refresh-token>

Note

Microsoft Entra Conditional Access policies aren't evaluated when PRTs are issued.

How is the PRT protected?

A PRT is protected by binding it to the device the user has signed in to. Microsoft Entra ID and Windows 10 or newer enable PRT protection through the following methods:



How do attackers get my tokens?

DEMO TIME!

