

FIDO, Federation & Facebook Social login





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Derek Hanson Director of Solution Architecture and Standards



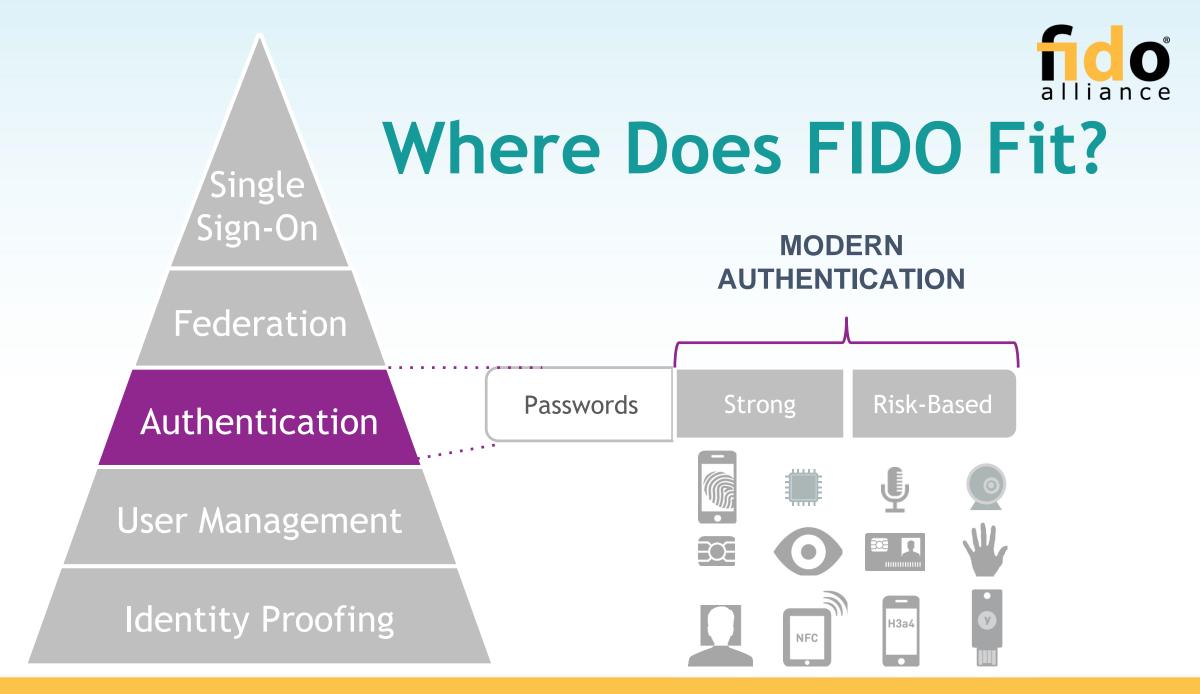
AGENDA

- FIDO U2F: A strong second-factor
- U2F and Federation
- Facebook Integration & Social Login



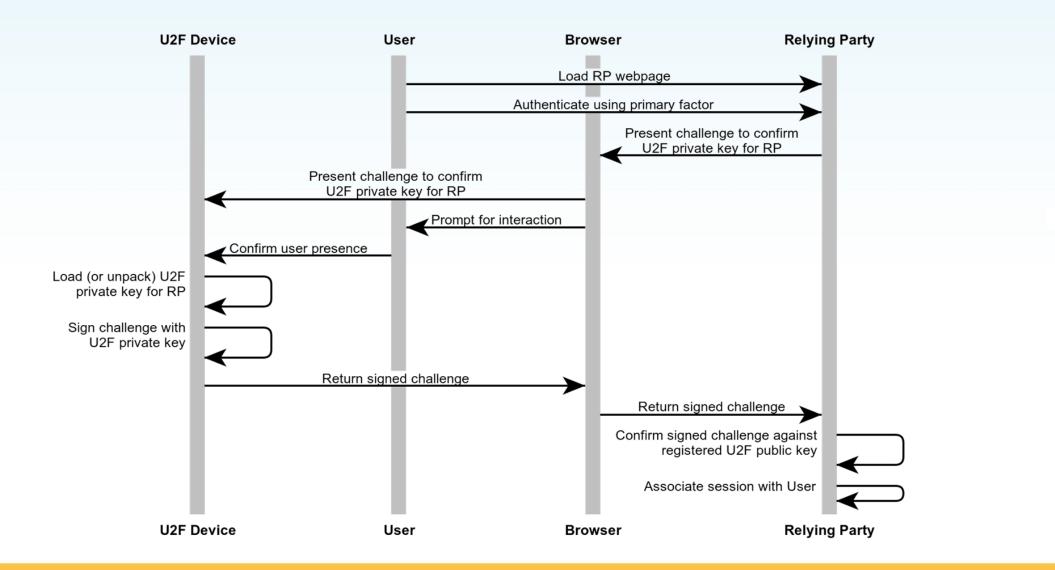
Why FIDO?

- Simple, single gesture authentication
- Scalable, one device works across an unlimited number of sites
- Secure, protects against phishing and man-in-the-middle attacks
- Privacy preserving, no secrets shared between sites
- **Open Standard**, platform/browser support, no 3rd-party protocol



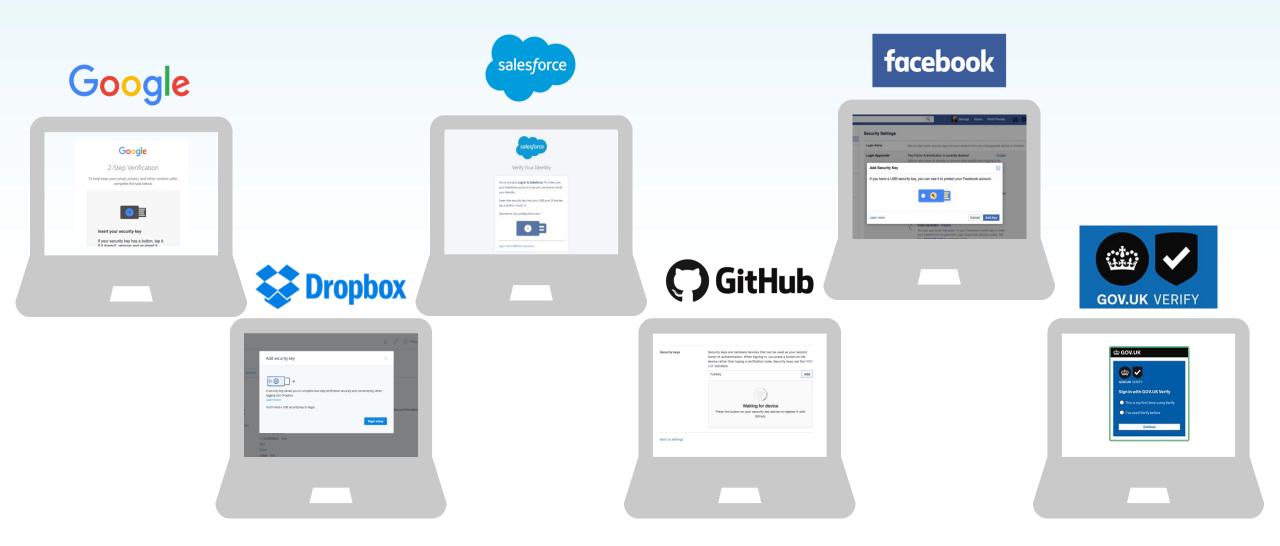
FIDO U2F Challenge/Response Flow





Notable RPs using FIDO U2F







FIDO U2F and Federation

- FIDO U2F Authentication protects login to federation account, which holds the "keys to the kingdom"
- FIDO U2F security benefits extend to federated logins
- Strengthens federation protocols: SAML, OAuth 2.0



U2F, Federation, and Facebook

- Facebook added support for FIDO U2F in January 2017
- Social logins (Login with 'X') extends FIDO U2F security benefits to federated account access

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U2F, Federation, and Facebook

Benefits:

- Phishing protection
- Fast, secure logins (and social logins)
- Interoperable (1 token, many services)



Facebook Federation

- Facebook social logins use OAuth
 2.0 and OpenID Connect-like
 extensions (Facebook Connect)
- SAML used for enterprise federation



U2F, Federation and Facebook

Scenario: Currently Logged into Facebook with username/password & U2F Token

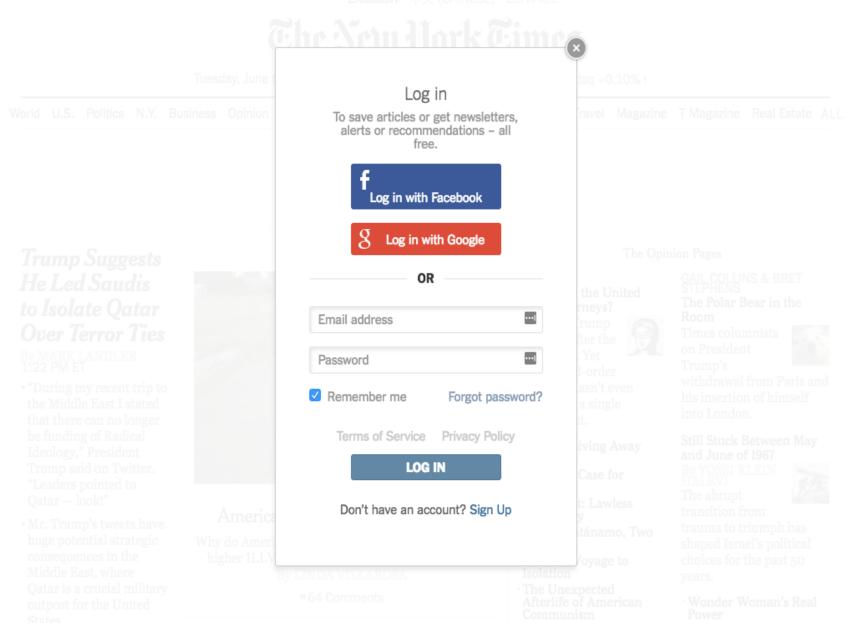
IdP: facebook.

Relying Party: The New York Eimes

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By MARK LANDLER 1:22 PM ET

- "During my recent trip to the Middle East I stated that there can no longer be funding of Radical Ideology," President Trump said on Twitter. "Leaders pointed to Qatar — look!"
- Mr. Trump's tweets have huge potential strategic consequences in the Middle East, where Qatar is a crucial military outpost for the United States.

FROM THE MAGAZINE



Ruddy Roye for The New York Times

The

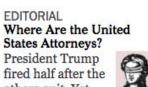
America's Hidden H.I.V. Epidemic

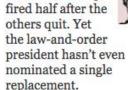
Why do America's black gay and bisexual men have a higher H.I.V. rate than any country in the world? By LINDA VILLAROSA

70 Comments

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Listen to 'The Daily'



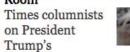


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GAIL COLLINS & BRET STEPHENS The Polar Bear in the Room

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withdrawal from Paris and his insertion of himself into London.

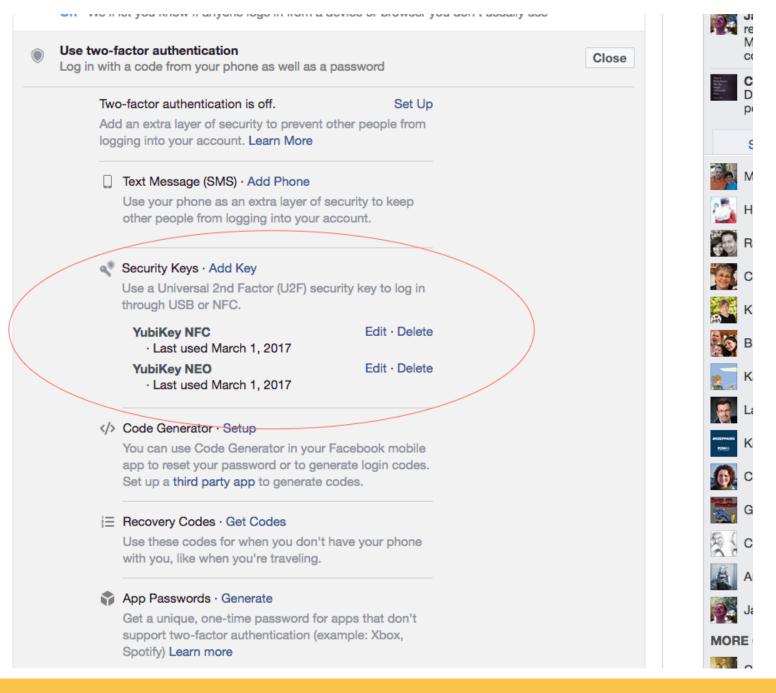
Still Stuck Between May and June of 1967



transition from trauma to triumph has shaped Israel's political choices for the past 50 years.

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How does FIDO & Federation benefit me?



- Enable Social Authentication for Account Recovery
- Enable Users to Opt-Out of Managing Passwords
- Enable Secure and Simple to Use Social Login
- Become a Secure Identity Provider for Your Employees, Customers, Vendors, Partners, etc.



Start Building a Better Authentication Stack Now!

Learn

Read the U2F Specifications FIDO specs & github.com/dainnilsson/u2f-tutorial

Implement

Build Your Own Server https://developers.yubico.com/U2F/Libraries/List_of_libraries.html

Use Standalone Server <u>dev.yubi.co/u2fval</u>

Use the Online Service <u>u2fval.appspot.com</u>

Test

Yubico U2F Demo Server demo.yubico.com/u2f

Google U2F Demo Server <u>u2fdemo.appspot.com</u>



Thank You!

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Extra slides

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FIDO + Federation

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How does FIDO Work?

