

# FIDO, Federation & Facebook Social login





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# Derek Hanson Director of Solution Architecture and Standards



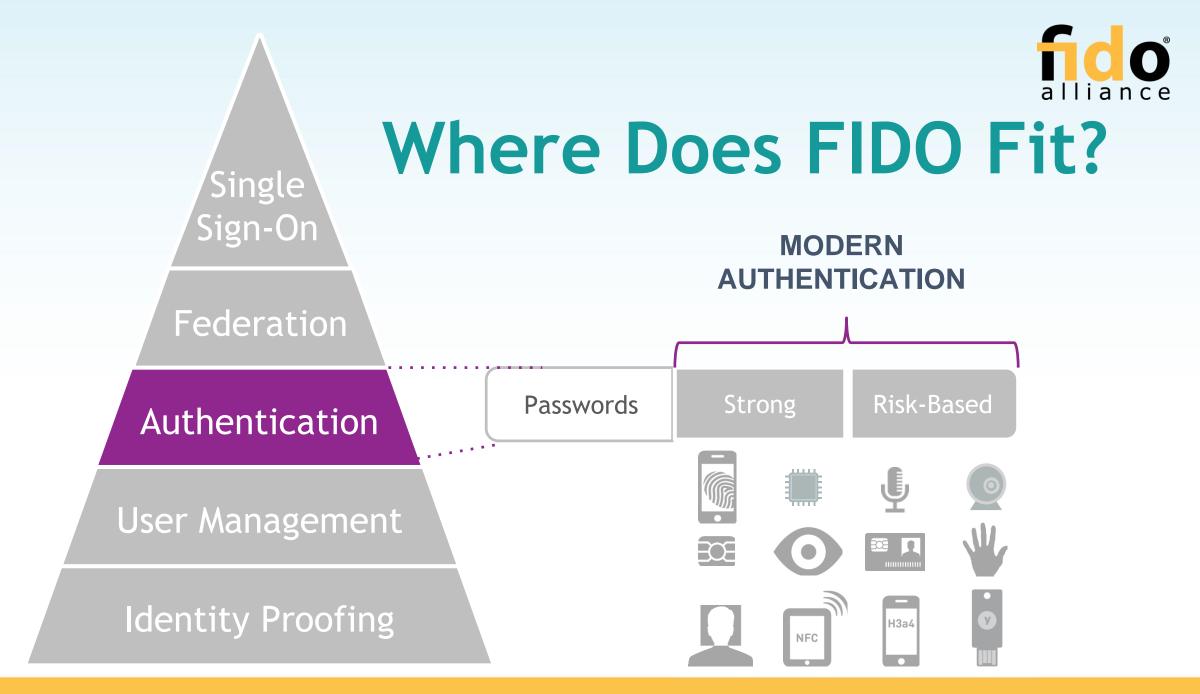
### AGENDA

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



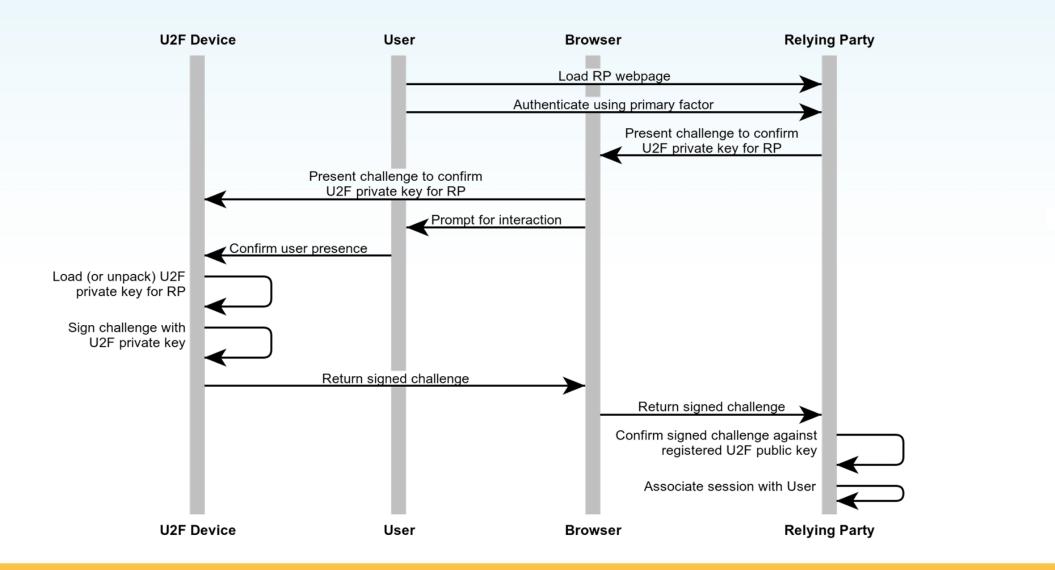
# Why FIDO?

- 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

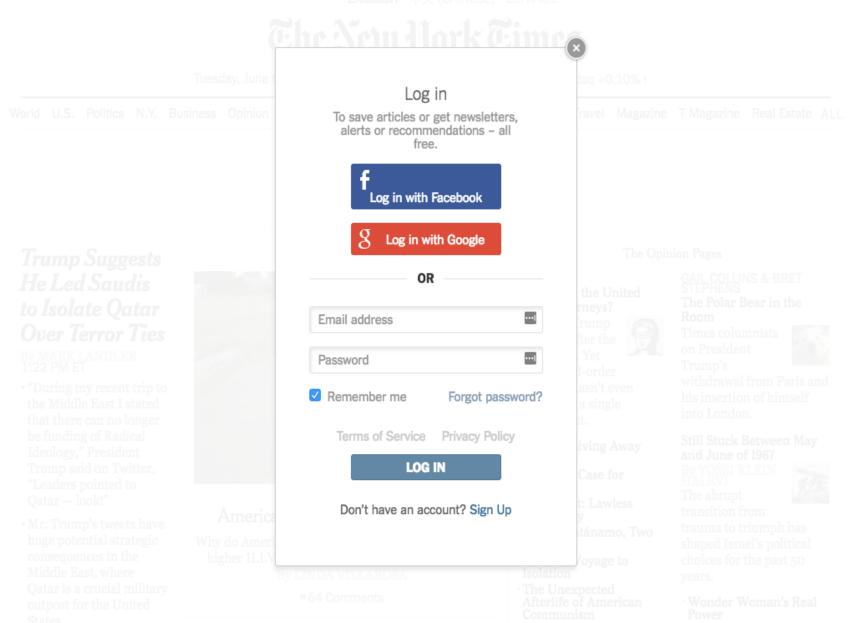
# IdP: facebook.

Relying Party: The New York Eimes

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### The New York Times



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#### Trump Suggests He Led Saudis to Isolate Qatar Over Terror Ties

#### 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

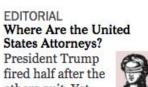
#### America's Hidden H.I.V. Epidemic

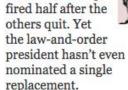
Why do America's black gay and bisexual men have a higher H.I.V. rate than any country in the world? By LINDA VILLAROSA

#### 70 Comments

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Listen to 'The Daily'



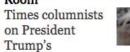


- Brooks: Giving Away Billions
- Cohen: A Case for Corbyn
- · Leonhardt: Lawless Presidency
- One Guantánamo, Two Worlds
- Britain's Voyage to Isolation
- The Unexpected Afterlife of American Communism
  - The Women Who Fought for Hanoi

#### The Opinion Pages

#### GAIL COLLINS & BRET STEPHENS The Polar Bear in the Room

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withdrawal from Paris and his insertion of himself into London.

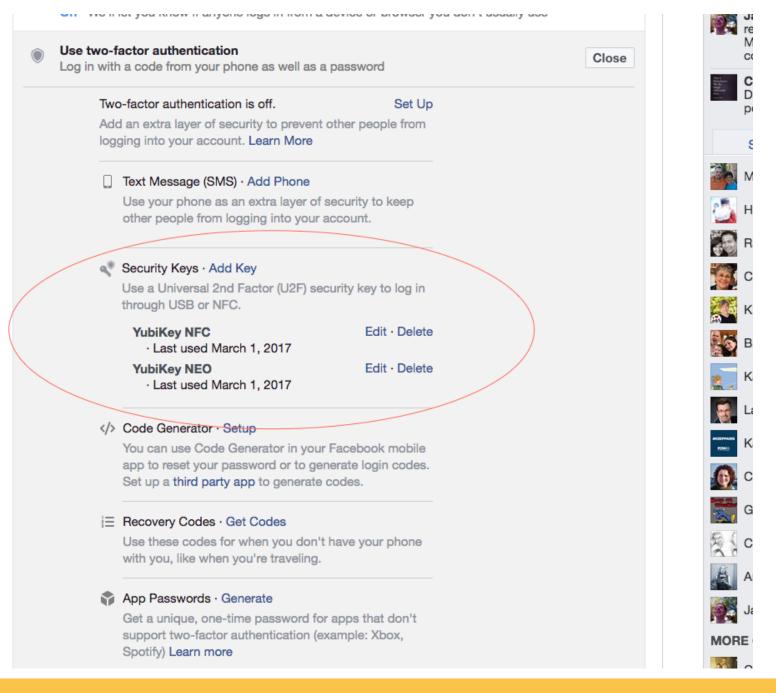
#### Still Stuck Between May and June of 1967



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 <a href="https://developers.yubico.com/U2F/Libraries/List\_of\_libraries.html">https://developers.yubico.com/U2F/Libraries/List\_of\_libraries.html</a>

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

# facebook.The New York TimesIdPRelying Party



# How does FIDO Work?

