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#RSAC

GOOGLE AND MICROSOFT DEBUT: REPLACING PASSWORDS WITH FIDO2 AUTHENTICATION

MODERATOR: **Brett McDowell**

Executive Director, FIDO Alliance
@brettmcdowell | @FIDOalliance

PANELISTS: **Sam Srinivas**

Product Management Director
Google Cloud Security

Dave Bossio

Group Program Manager
Microsoft, Operating System Security

The World Has a Password Problem



81%

Data breaches in 2016 that involved **weak, default, or stolen passwords**¹

1 IN 14

Phishing attacks were successful in 2016¹

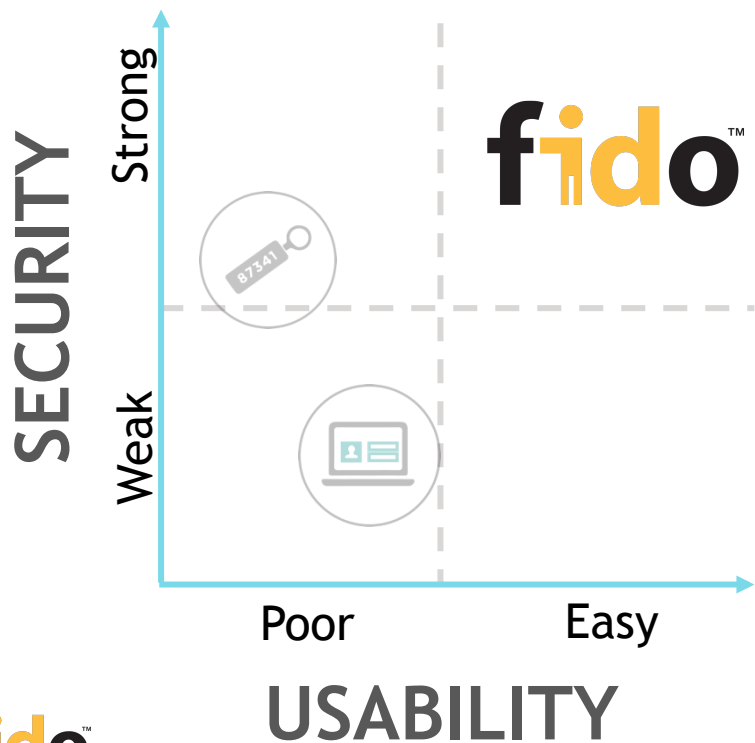
1,579

Breaches in 2017, a **45% increase over 2016**²



CLUMSY | HARD TO REMEMBER | NEED TO BE CHANGED ALL THE TIME

The Solution: Simpler *and* Stronger

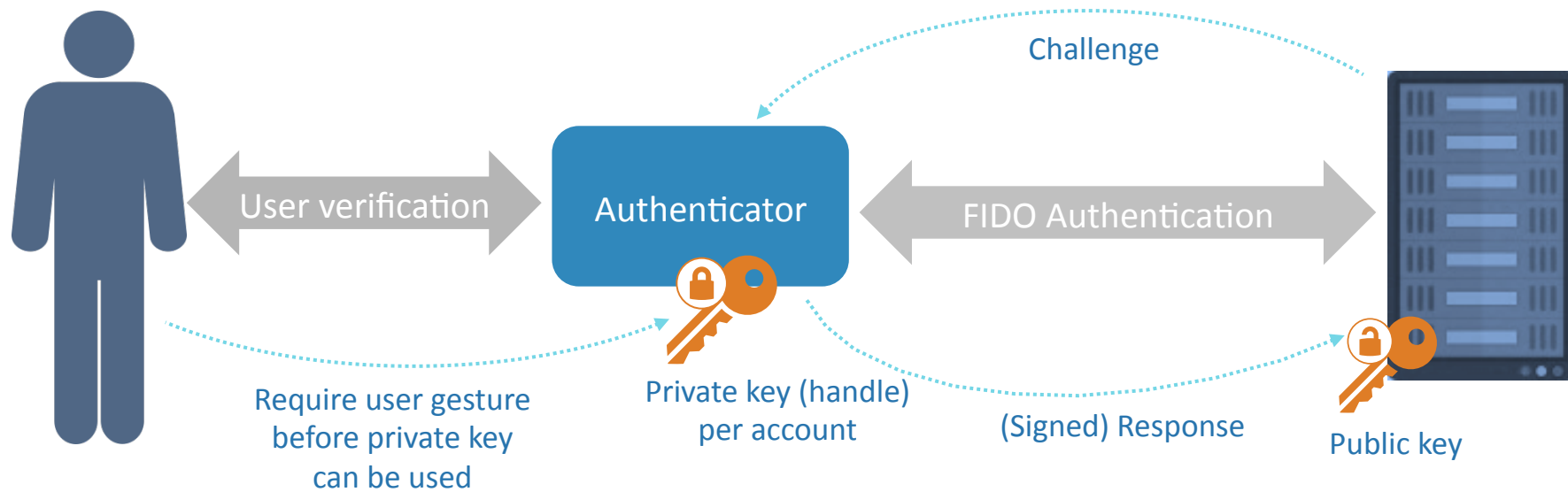


=

open standards for
simpler, stronger
authentication
using **public key**
cryptography

Single Gesture
Phishing-resistant MFA

How Does FIDO Work?



Who is using FIDO today?

(Sample of deployments in production)



Google

Bank of America



Dropbox



Microsoft

facebook



salesforce



GitHub

aetna[®]

ebay



BCcard

stripe

PayPal



NTT docomo



中國銀行
BANK OF CHINA



SoftBank

fido[™]
ALLIANCE

FIDO Specifications

FIDO2 Project

FIDO UAF
FIDO U2F
(@FIDO)

CTAP2
(@FIDO)

WebAuthn
(@W3C)

WebAuthn Brings FIDO to the Web Browser



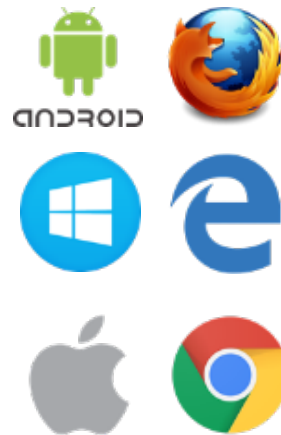
World Wide Web Consortium (W3C) developed Web Authentication ("WebAuthn") with FIDO Alliance Contributions

Candidate Recommendation



A new standard JavaScript API

That works with all FIDO2 platforms & authenticators



Participation from all these platform providers

Today's Demonstration Participants



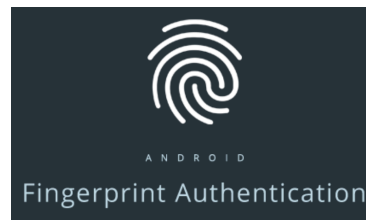
Web Browsers



Websites/Servers



Biometrics

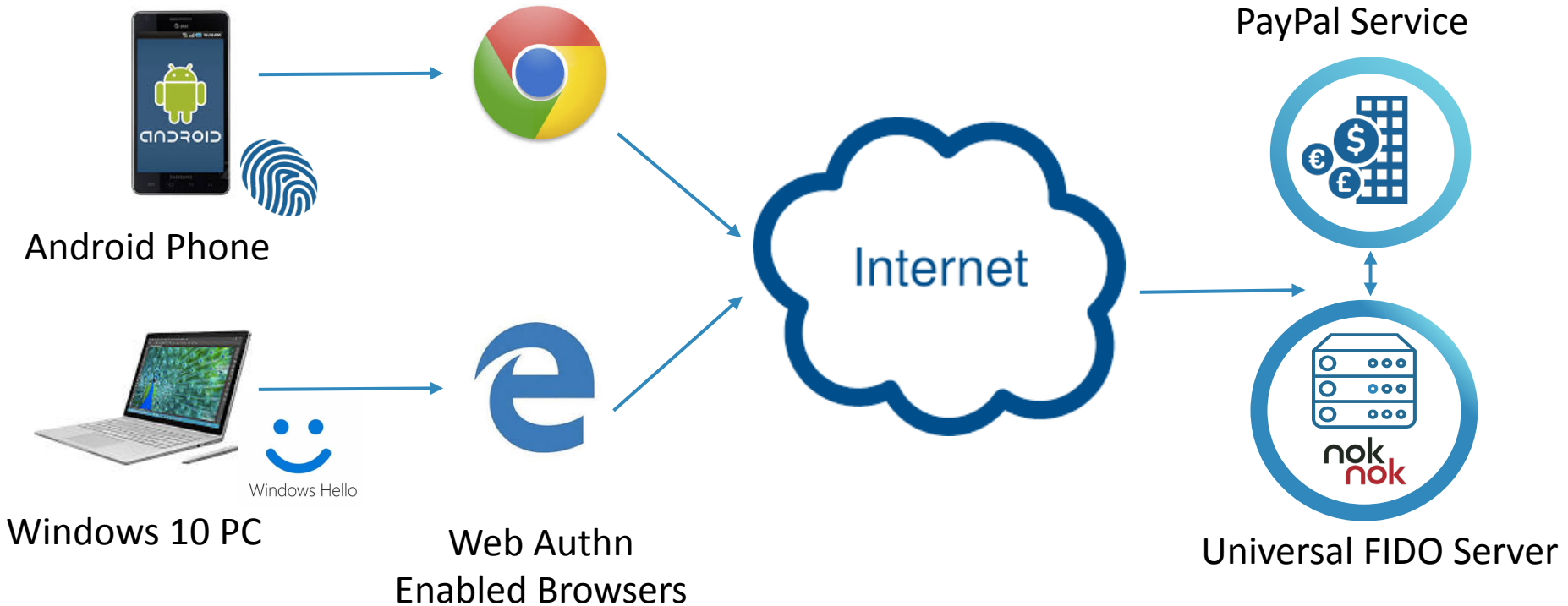


Windows Hello

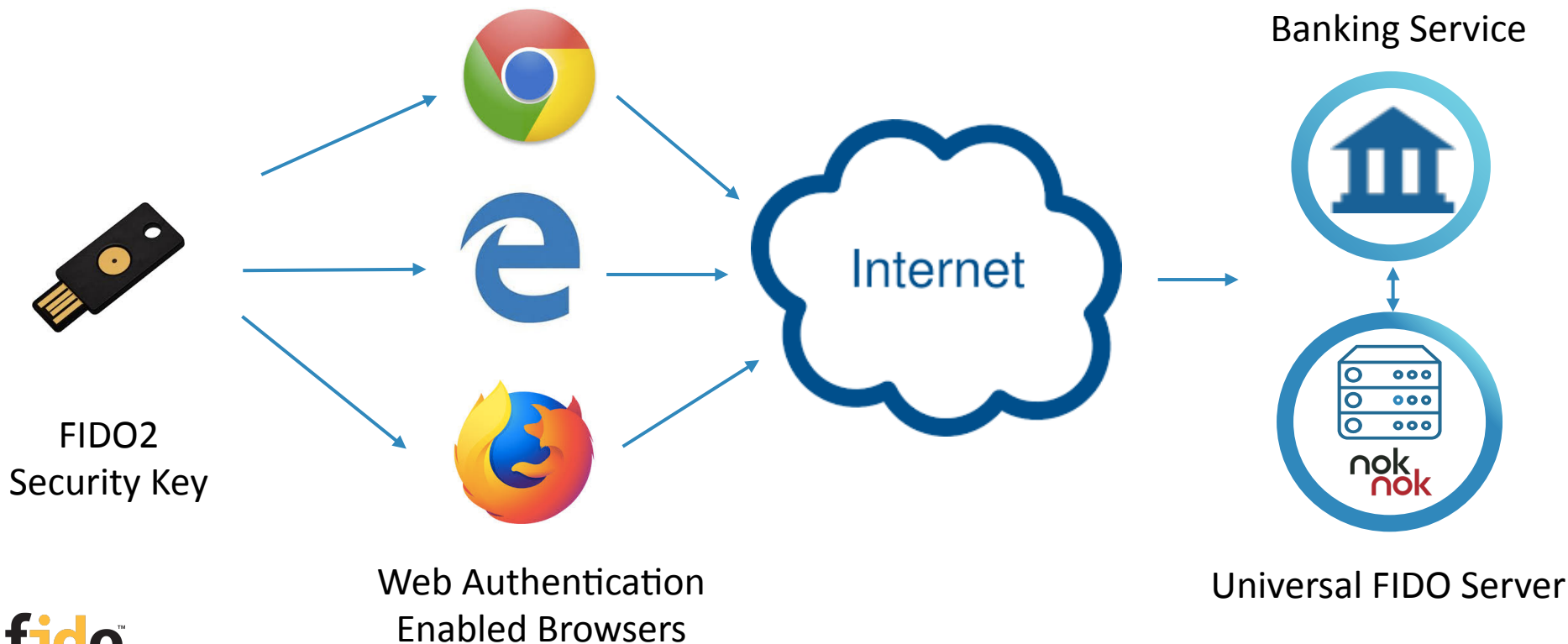
Security Key



Login with Built-in Biometrics



Login with FIDO2 Security Key



Key Learnings from Today's Debut



- We showed how FIDO2-compliant platforms enable FIDO2-compliant websites to gain true cross-platform support by using the exact same set of APIs across all these web browsers.
- Once a Relying Party has FIDO-enabled their authentication infrastructure once, there is no extra work required to use Windows Hello or Android fingerprint or FIDO2 Security Keys, etc.
- FIDO2 client implementations grow the existing FIDO ecosystem

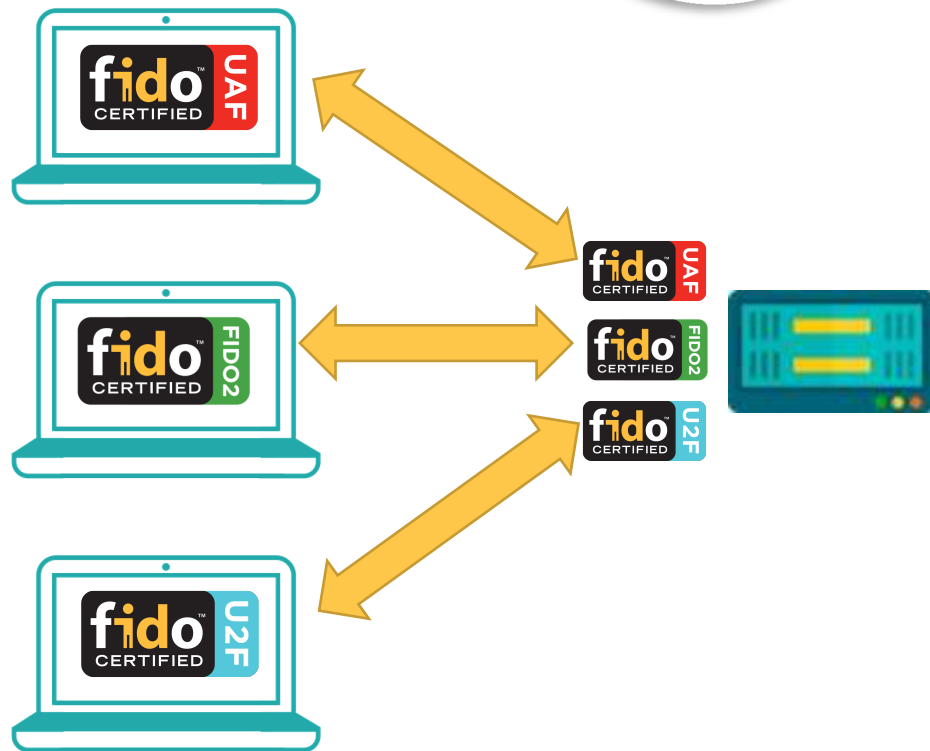
FIDO “UNIVERSAL SERVER” Program



FIDO Universal Server



Ensures interoperability with all
FIDO Certified Authenticators



APPLY WHAT YOU HAVE LEARNED



- If you are a Windows 10 or Android OEM
 - Review the authenticator integration/certification guidelines and API's from your OS partner
- If you are an Enterprise or Consumer-facing “Relying Party”
 - Go to <https://fidoalliance.org> for white papers, certified products and more
 - Join our free Dev Forum: <https://fidoalliance.org/participate/community/>
 - Ask your vendor when they will have FIDO2 support
- If you want to collaborate with the designers and first deployers of this technology, join the FIDO Alliance: info@fidoalliance.org



Q&A

- Sam (Google)
- Dave (Microsoft)
- Brett (FIDO Alliance)
- Rajiv (Nok Nok Labs)
- Darshan (PayPal)
- Derek (Yubico)