Goodbye passwords!

Pier Luigi Rotondo Security Architect



#ECSMPerugia #CyberSecMonth



123456

The password dilemma

- Short passwords easy to attack
- AS2-Y#!t9@-allMYp@\$\$ way more secure
- Growing number of accounts
 - Need to keep passwords distinct
 - Lost revenues due to forgotten passwords [2]
- Password-based authentication is under attack!

Goodbye passwords!

https://www.youtube.com/watch?v=vcsGu9ug9J4

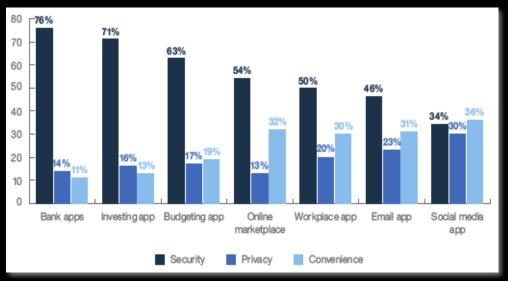
Welcome biometrics



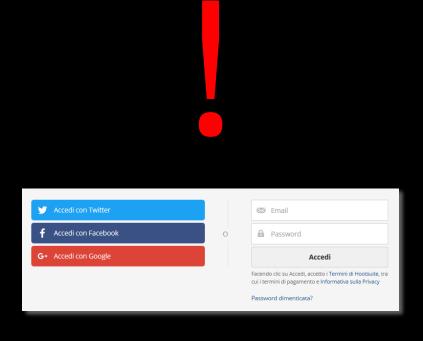
A biometric characteristic

- No need to remember
- Always with you
- Fast and easy!
- More secure ... or at least this is what many people think!

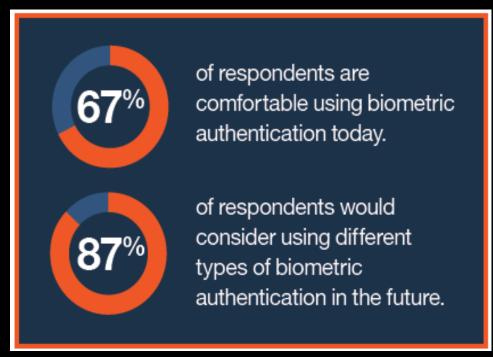
How secure do you want to be?



Source: Future of Identity Study 2018 - IBM Security



The right compromise

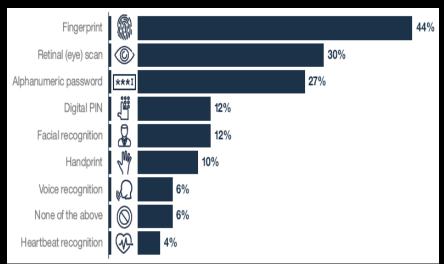




Source: Future of Identity Study 2018 - IBM Security

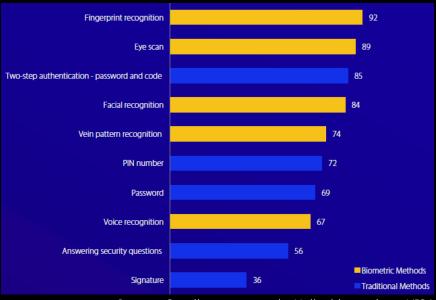
What biometrics

Authentication methods perceived as most secure



Source: Future of Identity Study 2018 - IBM Security

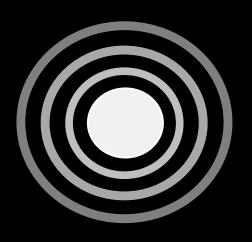
Secure methods for authorizing payments



Source: Goodbye, passwords. Hello, biometrics. - VISA

How secure is ... biometric security?

Multi-Factor Authentication (MFA)



- Multiple layers of defense
- Visible vs invisible authentication factors

Authentication-as-a-service (1/3)

1 Enrollment (once)

1.1 Device registration

1.2 Identity

> Watch the demo



Authentication-as-a-service (2/3)

2 Password-free login

> Watch the demo



Authentication-as-a-service (3/3)

3 Safer banking

- 3.1 Low value transaction
- 3.2 Medium value transaction
- 3.3 High value transaction > Watch the demo



Conclusions

- Don't force your users. Engage them!
 - Manage user experience and acceptance, along with risks
- Make biometric authentication appealing
- One size fits all does not fit here
- Two is better than one. Especially when it comes to authentication!
 - And more is better than two!
- Risk-based authentication
- Behavioral biometrics

And your speaker is ...

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Thank you

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References

- [1] L. Kessem Future of Identity Study 2018 IBM Security, January 2018 ibm.biz/FutureOfIdentity
- [2] Goodbye, passwords. Hello, biometrics. VISA, September 2017
- [3] J. Moar 3 steps to prepare for multimodal biometric payments Juniper Research, March 2018
- [4] About Face ID advanced technology Apple Support, September 2018