

Cybersecurity Awareness Month





Nick Wood

Sr. System Administrator

18+ years in IT

13+ years with Baker College

Interests outside of IT:

Running, Biking,

Photography, Wolves





Matthew Hansel

MSP Technology Advisor and Instructor

30+ years in IT

7+ years with Baker College

Interests outside of IT:

Trail running with my dog, Retro computers





MFA - Agenda

- Introductions
- What is MFA?
- Authentication Methods
- Q&A
- Giveaway?!?





Many Frustrating Annoyances





Multi Factor Authentication





So, what exactly is it called then?







Multiple Factors

Something you know

Password/PIN



Something you have

Bank Card

Something you are

Fingerprint / FaceID





First takeaway

Have a plan: register multiple methods





Authentication Method Examples

Bad: Password

123456

qwerty

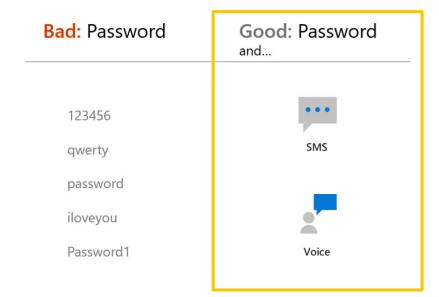
password

iloveyou

Password1



Authentication Method Examples





Second takeaway

Never share your password or provide your multifactor authentication code to anyone, including IT.Do not approve authenticator notifications that you did not request.



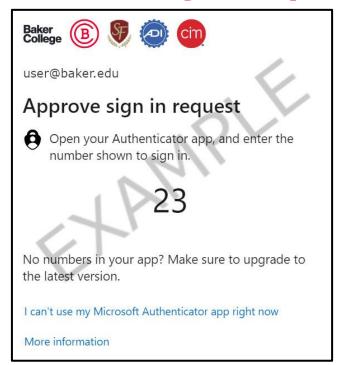


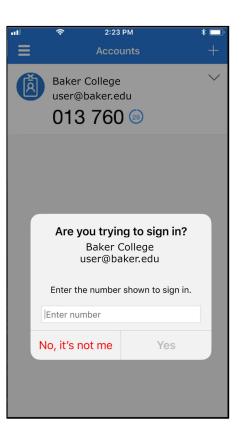
Authentication Method Examples

Bad: Password	Good: Password and	Better: Password and
123456 qwerty	SMS	Authenticator (Push Notifications)
password iloveyou Password1	Voice	Software Tokens OTP
		TOKEIS OTT



Number Matching Examples







Passwordless Demo!





Authentication Method Examples

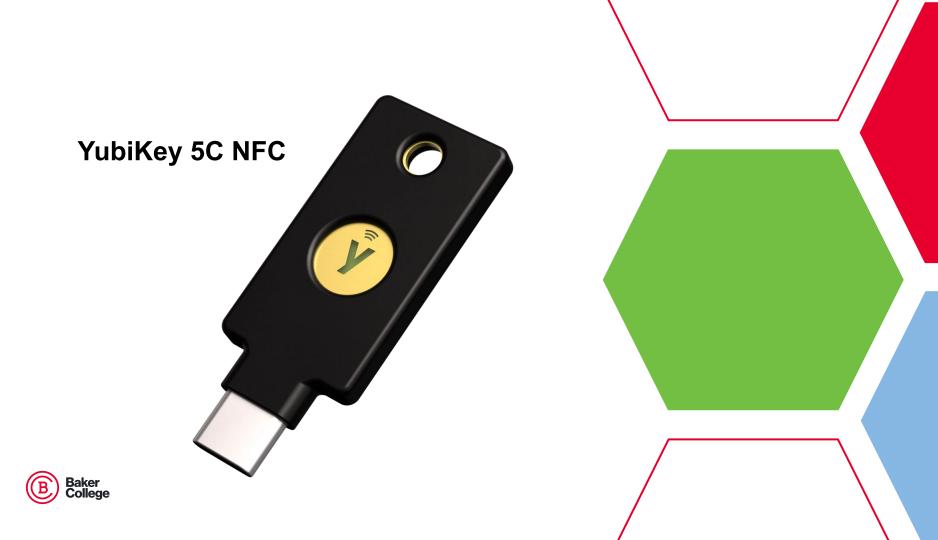
Bad: Password	Good: Password	Better: Password and	Best: Passwordless
123456 qwerty	SMS	Authenticator (Push Notifications)	Authenticator (Phone Sign-in)
password iloveyou Password1	Voice	Software Tokens OTP	FIDO2 security key



Security Key Demo!

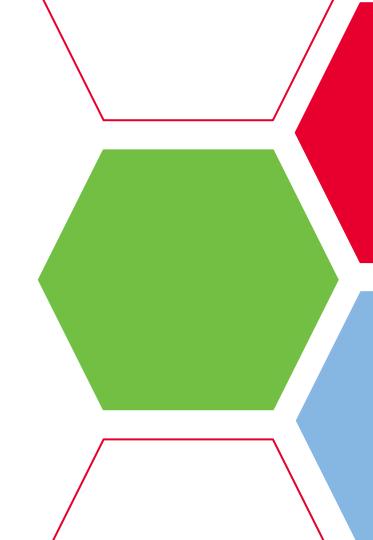












The Future is... Passkeys

Here's hoping for passwords to go away someday!

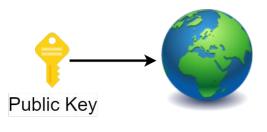




Registration



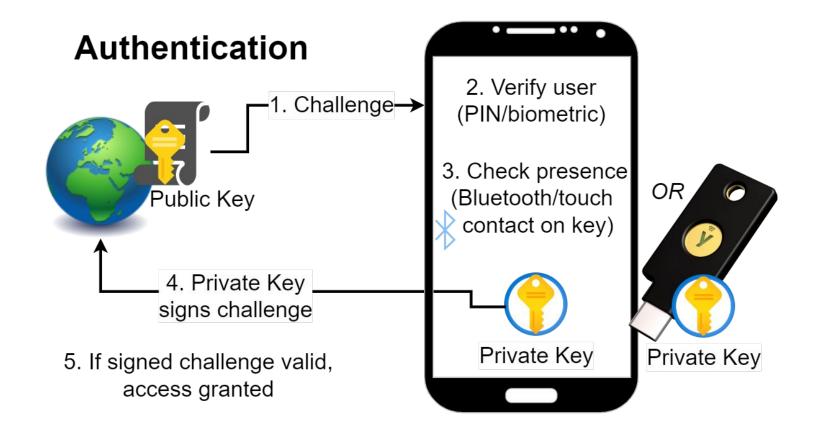
Registering a Mobile Device or Security
Key creates a key pair. The private key
remains securely on the device.
A public key is sent to the
website/service.



If a website is breached, someone getting your public key is not enough to gain access to your account.

This is far superior to passwords being leaked.







Helpful links

FIDO2 certified devices

https://fidoalliance.org/certification/fido-certified-products

Passkeys.directory

Sites supporting YubiKeys

https://www.yubico.com/works-with-yubikey/catalog

Sites supporting MFA/2FA

https://2fa.directory/us

Sites supporting Passkeys



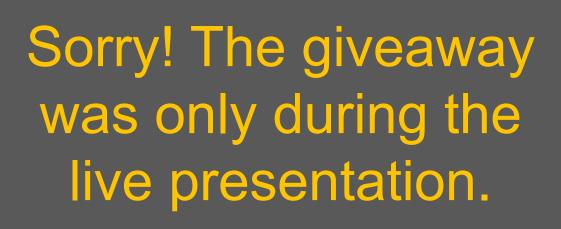


Q&A













Thank you!

Be sure to join us:

"How to Recognize and Defend Against Phishing"

Wed, October 18, 2023 12pm-1pm

@ Owosso campus & virtual

"Tips to Keep Your Devices Secure" Wed, October 25, 2023 12pm-1pm

@ Royal Oak campus & virtual



Image Credits



Padlock image -Royalty free use © <u>Daniil Peshkov</u>



One Lock And Many Keys -Royalty free use © <u>Liountmila Korelidou</u>



Fingerprint - Royalty free use © Andy Brown

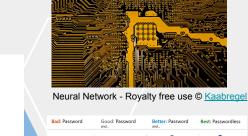


Numeric Keypad -Royalty free use © <u>Francisco Leitão</u>



TrustKey images © TrustKey Solutions

YubiKey images © Yubico



Beagle Businessman - Royalty free use © Monkey Business Images



MFA methods © Microsoft



Card - Royalty free use © Wd2007

