# Passwords and iCloud KeyChain



#### Bruce Mitchell and Tom Bonanno

Bonanno March 1, 2022



## Think about it :

How many people use Keychain? How many people use a password manager? How many people have a need for Keychain? How you manage your online financial activity?



#### Today we will talk about...

- The frustration of forgetting your passwords
- What is Keychain?
- Ways to remember passwords.
- Robust features in Monterey and iOS 15.3
- Importance of iCloud sync to your devices
- How to generate a random password



https://support.apple.com/guide/keychain-access/welcome/mac

for macOS Monterey



## Keychain Access User Guide

for macOS Monterey

Q Search this guide

#### Table of Contents (+)

	Reychain Access	C O A family	
short deschares	All Tastwords Secure Notes My C	ortificatos Koys Cartificatas	
f India	login.yahoo.com (julie.talm	na@icloud.com)	
Loce Herns	Kjert. Mak from an entered		
nam Revenuina	ugin.	yahoo.com (julie.talma@icloud.com)	
System	A	Attributes Access Control	
System Roots	Name		Keychain
	V SOSData	www.icloud.com (julie.ta/ma@icloud.com)	Local Items
	Z SOSData CO Kind	Web form password	Local Items
	Z SOSData		Local Items
	Accoun	t. julie te ma©icload com	Local Items
	de perac When	n https://www.ieloud.com	Local Items
	Z. ids: ngm-	e detault	Local items
	🛴 ids.rogm-		Local Items
	🛴 ids: ngm		Local Items
	🛴 ids:mess		Local Items
	🛴 ids: ident 🛛 💟 Show password	1 Password123 9	Local items
	🛴 ids: ident	The second se	Local Items
	Z. ds. ident	Save Changes	Local Itoms
	🛴 ids. conta		Local Items
	🛴 ids: baild		Local tierns
		form gassword Aug 27, 2020 at 11:03:4	Local Items
	Cloud Keychain Account Meta-date appl	2016년 2017년 1월 2017년 - 2017년 21년 21년 21년 21년 21년 21년 21년 21년 21년 21	Local Items
		ont network pa Aug 26, 2020 at 11:11:0 Icotion passw Aug 27, 2020 at 11:10:2	Local Items

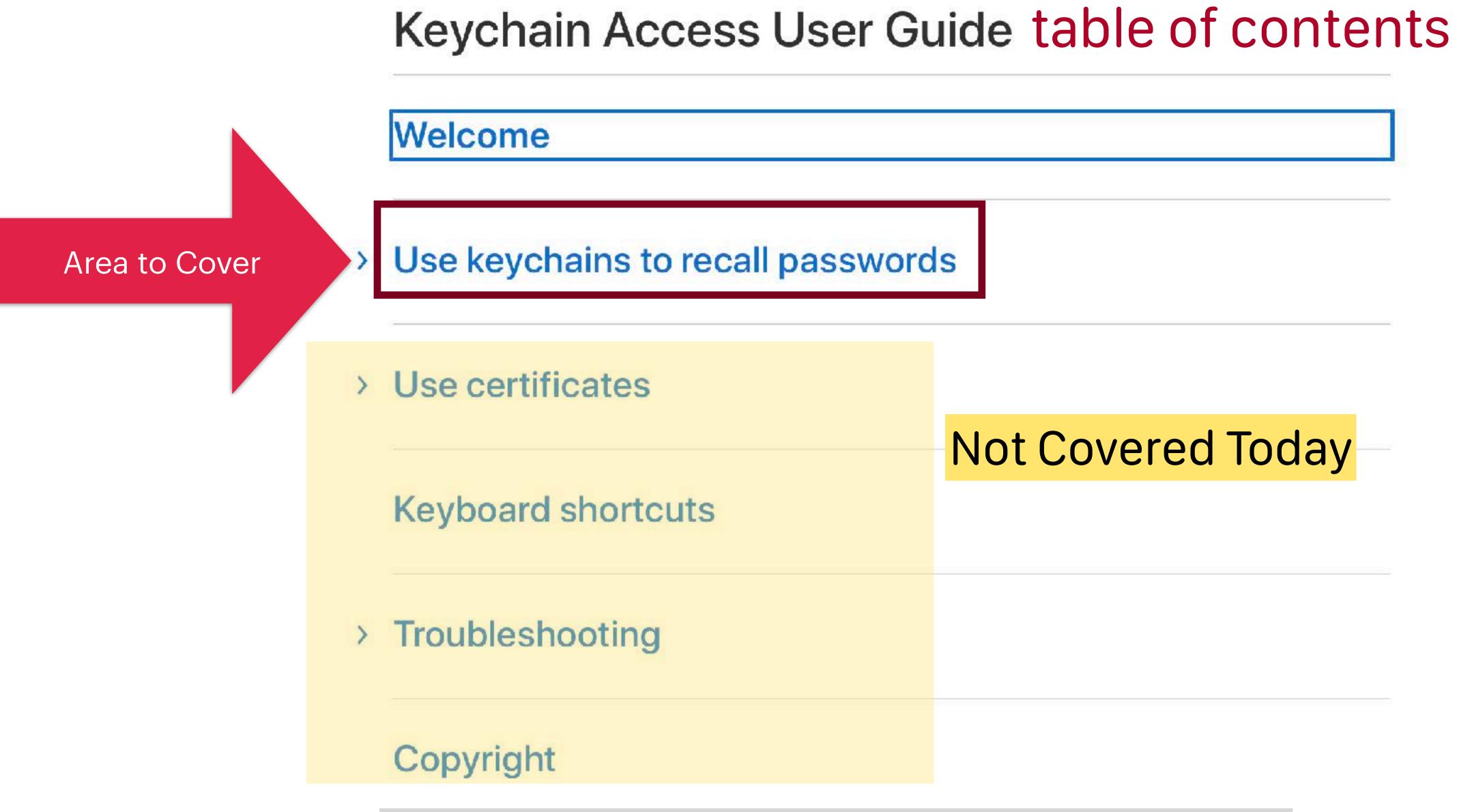
#### Total recall of all your passwords

Keychain Access can securely store your passwords and enter them for you. You can also easily look up passwords when needed.

How to view passwords >



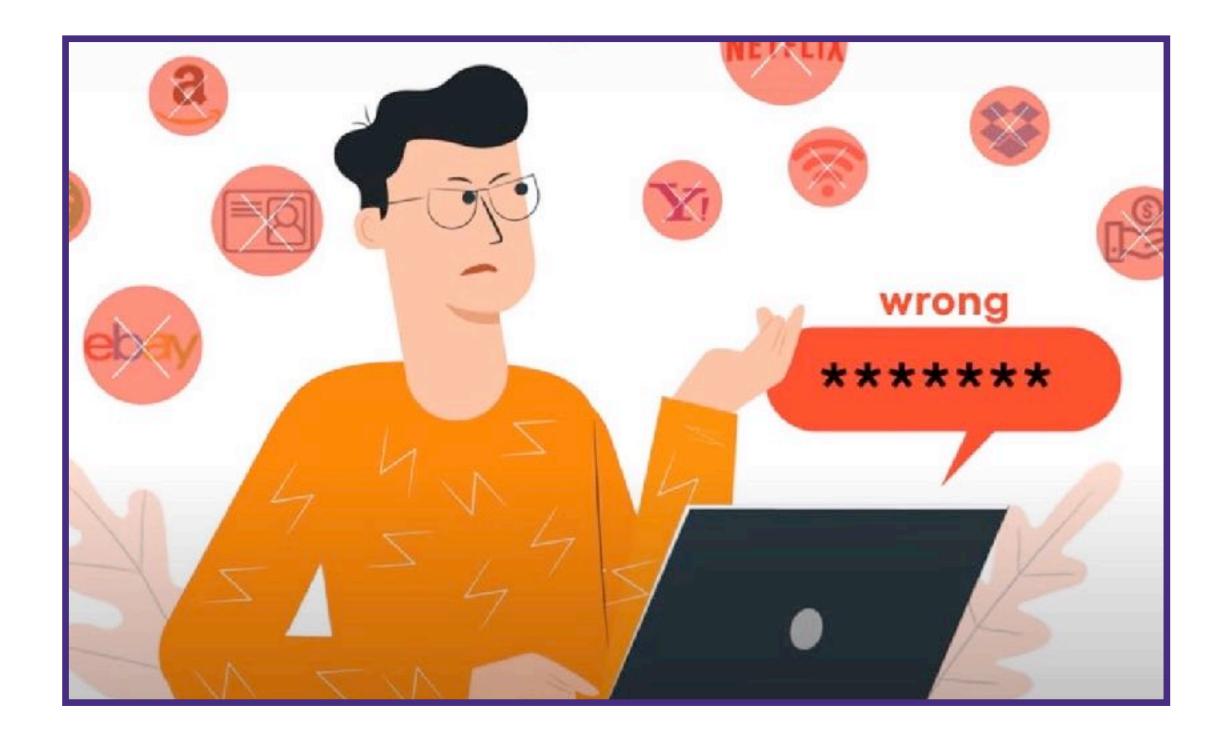
https://support.apple.com/guide/keychain-access/welcome/mac



https://support.apple.com/guide/keychain-access/welcome/mac

## There is just too much to remember.

- Easy to forget a password.
- It gets frustrating ....
- One needs a system.
- Record in a Notebook
- Spreadsheet, Locked document
- Use Notes app
- Paid Password manager
- Passwords in iCloud KeyChain



# Keychain

to store account names and passwords for apps, servers, AirPort base stations, and websites. You can also use keychains to store confidential information such as credit card numbers or personal identification numbers (PINs) for bank accounts.



A keychain is a locked, encrypted container used in Keychain Access

#### What is iCloud Keychain?

access iCloud Keychain.

#### When it comes to online security, it's best to use a good password manager.

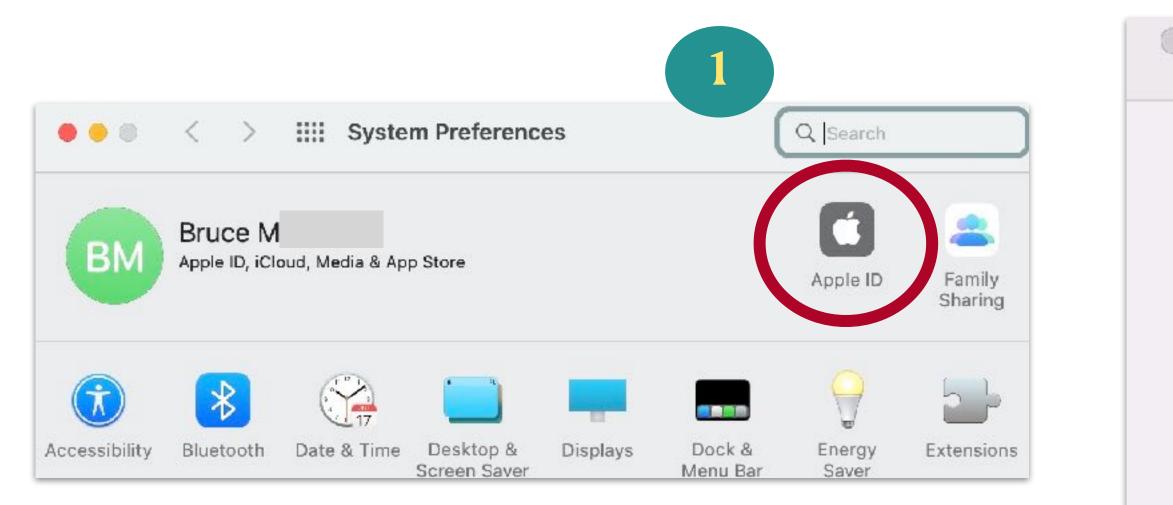
- But if you don't want to pay for a password manager, then you can make
- use of Apple's own solution that is built into every iPhone, iPad, and Mac:
- iCloud Keychain. As long as you have an iCloud account, then you can



## Mac

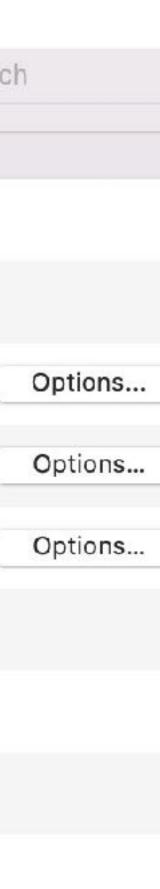
## Turn on iCloud Keychain Access

#### Mac System Preferences > Apple ID> iCloud>Check Keychain



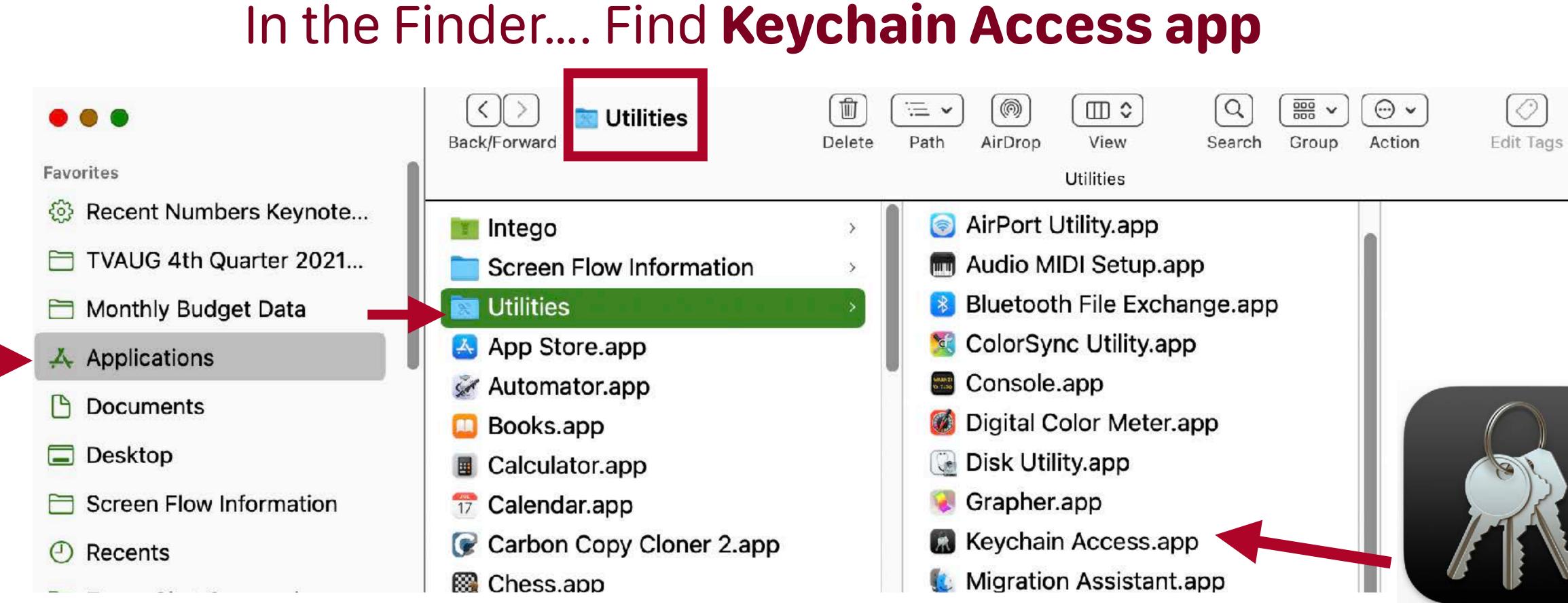


		Apple ID		Q Searcl
Bru brucem	ace Mitchell			
<ul><li>Nam</li><li>Pass</li></ul>	view e, Phone, Email word & Security hent & Shipping		iCloud Drive iCloud Mail Contacts Calendars Reminders	
iClou	id ia & Purchases	<ul> <li>✓</li> <li>✓</li> <li>Optim</li> </ul>	Notes nize Mac Storage	













Mac

#### Or locate the app using Launch Pad



Launch Pad icon

In Monterey



#### Search



k

Contacts



Calendar



Reminders





Notes



Find My



Voice Memos



Photo Booth



Photos



Preview



🗢 iMovie



Numbers



Stocks



(1) (1)

GarageBand



Other

Aa

ContentBarrier





Calculator





#### Just go to Settings...

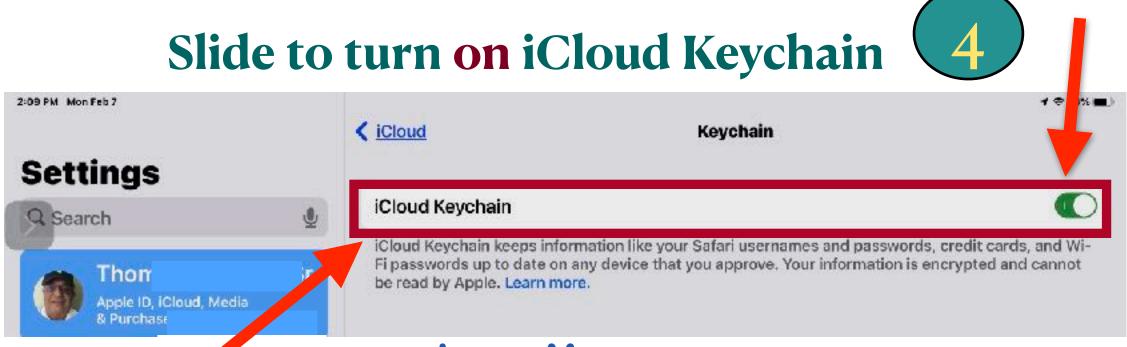






Select and turn on Keychain

## Turn on Keychain in iPadOS > Settings



#### Learn More...

iCloud Keychain keeps information like your Safari usernames and passwords, credit cards, and Wi-Fi passwords up to date on any device that you approve. Your information is encrypted and cannot be read by Apple.



#### Under the covers Mac

## Keychain Access App on the Mac

Q Search

Keys Certificates

#### Categories of items

#### Keychain item description

**Default Keychains** d login iCloud

System Keychains

System

System Roots 

Sidebar

**Keychain Access** 

All Items

Passwords Secure Notes My Certificates



**Apple Persistent State Encryption** 

Kind: application password Account: Window Bitmap Encryption Where: Apple Persistent State Encryption Modified: Yesterday, 3:22 PM

Name	^	Kind	Keychain	Date Modified	lt	COULD help rev
/ Apple Persistent State Encryption		application password	login	Yesterday, 3:22 PM		
L. BeaconStore		application password	login	Jul 14, 2020 at 5:58:2	Α	password that y
Z. Call History User Data Key		application password	login	Jul 28, 2020 at 12:48		
iOS Backup		application password	login	Jul 15, 2020 at 3:18:4		Forgot.
/ MetadataKeychain		application password	login	Jul 5, 2020 at 12:11:0	5 F 191	101900
/ ProtectedCloudStorage		application password	login	Jul 5, 2020 at 12:05:4	49 PN	4
/ Safari WebCrypto Master Key		application password	login	Aug 26, 2020 at 9:06	:44 A	M
Z. TelephonyUtilities		application password	login	Today, 5:12 PM		

Click to see information about a selected keychain item.

## You likely will never go this deep into Keychain Access





# **2FA Two Factor Authentication**

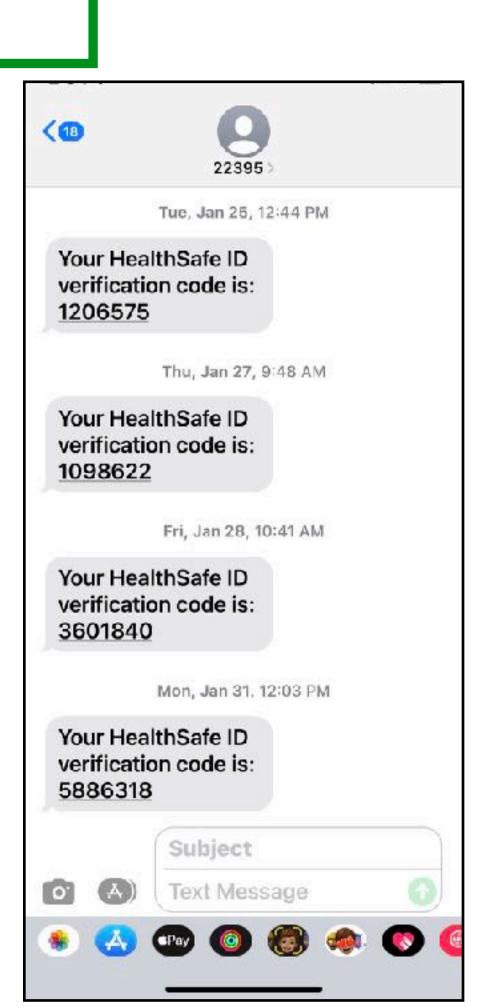
#### **Built-in authenticator**

Generate verification codes needed for additional sign-in security. If a site offers two-factor authentication, you can set up verification codes under Passwords in System Preferences and Safari — no need to download an additional app. Once set up, verification codes autofill when you sign in to the site.

Extra Layer of Security Verification Codes Fingerprint /Touch ID Face ID

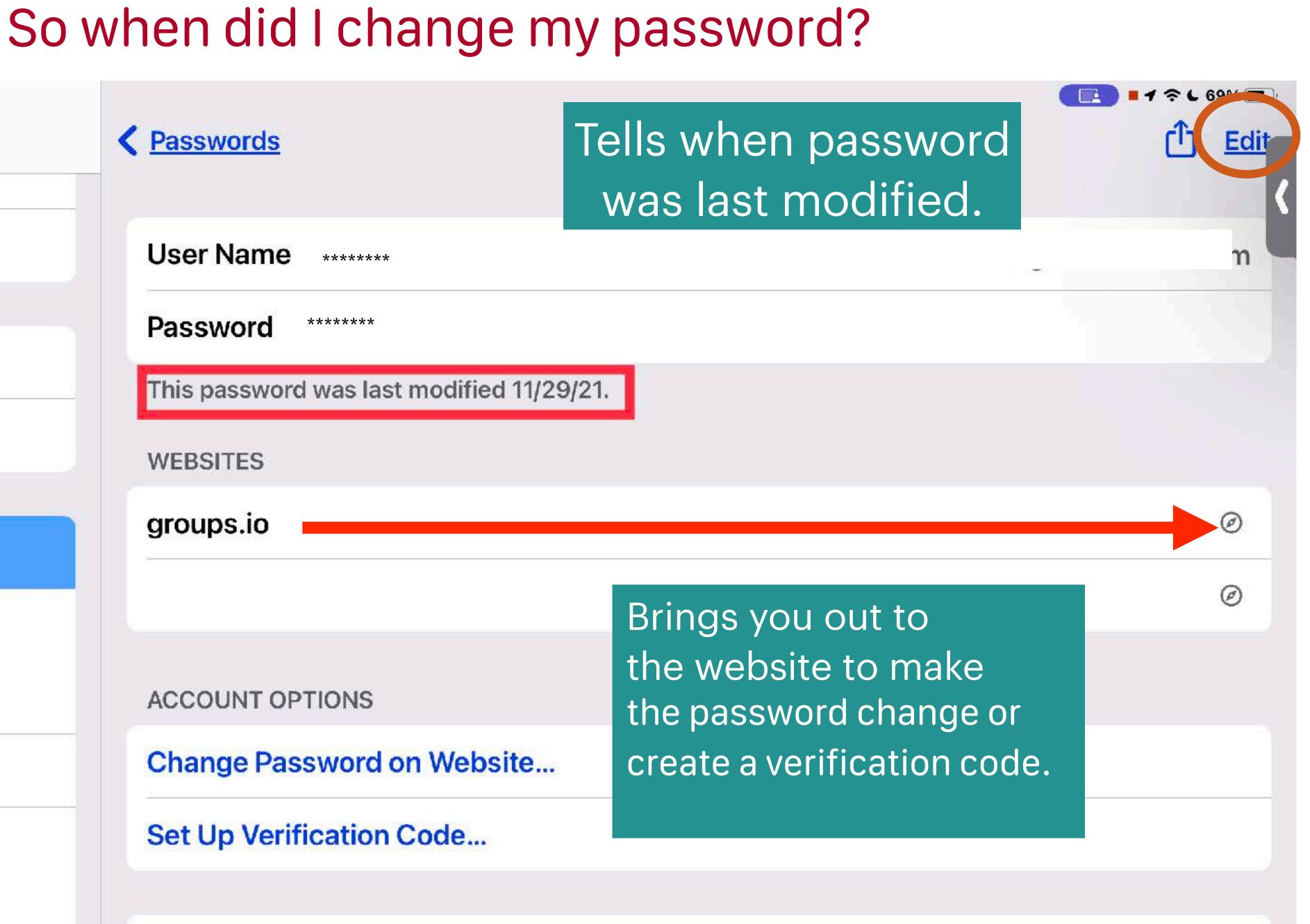
Two factor authentication(2FA) is a security system that requires two separate, distinct forms of identification in order to access something. The first factor is a **password** and the second commonly includes a text with a **code sent to your smartphone**, or biometrics using your fingerprint, face, or retina.

• • •

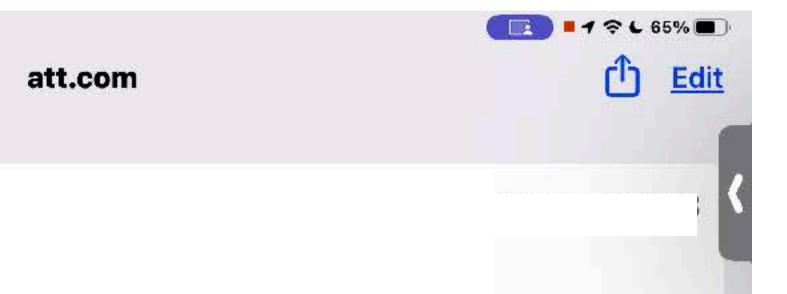


## iPad

Bo 4 Settings Dattery	Passwords
Privacy	User Name *******
App Store	Password ******
	This password was last
Wallet & Apple Pay	WEBSITES
Passwords	groups.io
🖂 Mail	
Contacts	ACCOUNT OPTIONS
Calendar	Change Password o
Notes	Set Up Verification (
Reminders	

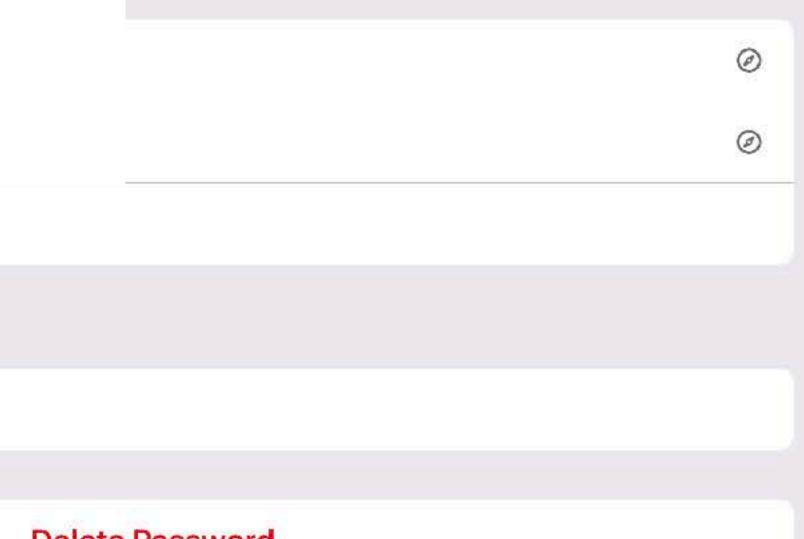


j	Pad	
	Settings Dattery	Passwords
	Privacy	User Name
	App Store	Password
	Wallet & Apple Pay	This password was last modified 9/16 SECURITY RECOMMENDATION
	Passwords	Reused password
	Mail	Change Password on Website
	Contacts	
	Calendar	webs m.att.com
	Notes Reminders	myattwx07.
	Voice Memos	www.att.com
	O Messages	ACCOUNT OPTIONS
	FaceTime	Set Up Verification Code
	Safari	



6/20.

You are reusing this password on numerous sites which increases the risk to this account if one of those is compromised.



## Mac

#### Change a Reused or Compromised Password **Monterey Specific**

	IIII Passwor	ds	Q Search		
Q grou     All Passwe     A   a;   nt   a;   nt   a;   nt   a;   nt   gi   br     contable     contable     contable     contable     contable	۲	groups.io   Last modified 9/5/20   and 6 more. This increases the risk one of those accounts is compromise Change Password on Website User Name: forums@ Password: ••••••••••• Website: groups.io	sed.	Update Password User Name Password Verification Code Websites Delete Password	Change Password on Website
Vour Mac can securely me	5/	rds and alert you if they appear in known data	a leaks.		

Your Mac can securely monitor your passwords and alert you if they appear in known data leaks.



#### In Monterey

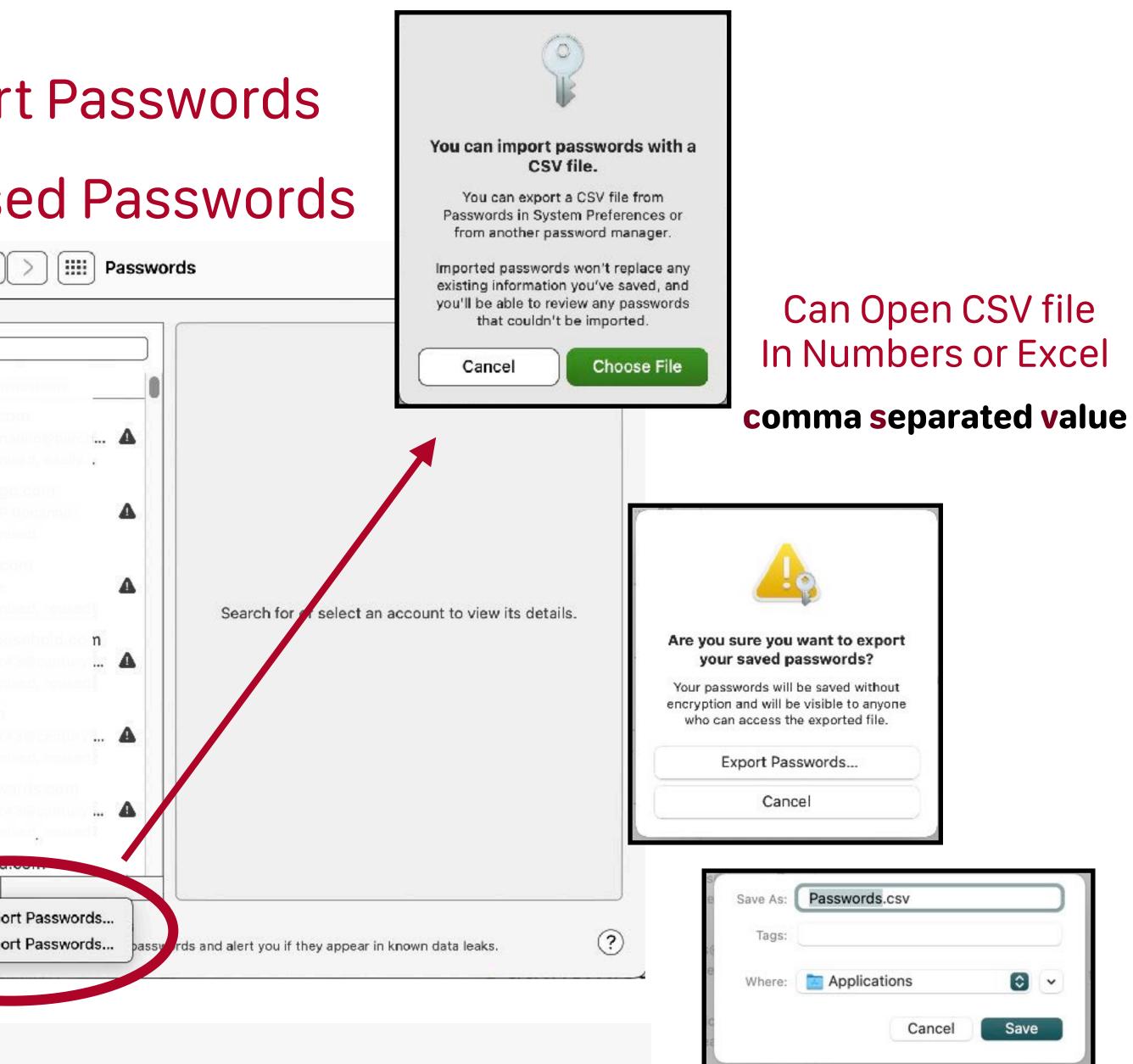
## Import and Export Passwords **Detect Compromised Passwords**

00

	Thom: Apple ID, iCl	oud+, Media & A	pp Store			Apple ID	Family Sharing	Secur	
	*		•••)			Q		WF	
ccessibility	Bluetooth	Date & Time	Desktop & Screen Saver	Displays	Dock & Menu Bar	Energy Saver	Extensions		
	@						4		
General	Internet Accounts	Keyboard	Language & Region	Mission Control	Mouse	Network	Notifications & Focus	В	
0		Ā	٢				a () 0 () a	С	
Passwords	Printers & Scanners	Screen Time	Security & Privacy	Sharing	Sīri	Software Update	Sound	D	
Q					**				EL:
Spotlight	Startup Disk	Time Machine	Touch ID	Trackpad	Users & Groups	Wallet & Apple Pay		+ -	-

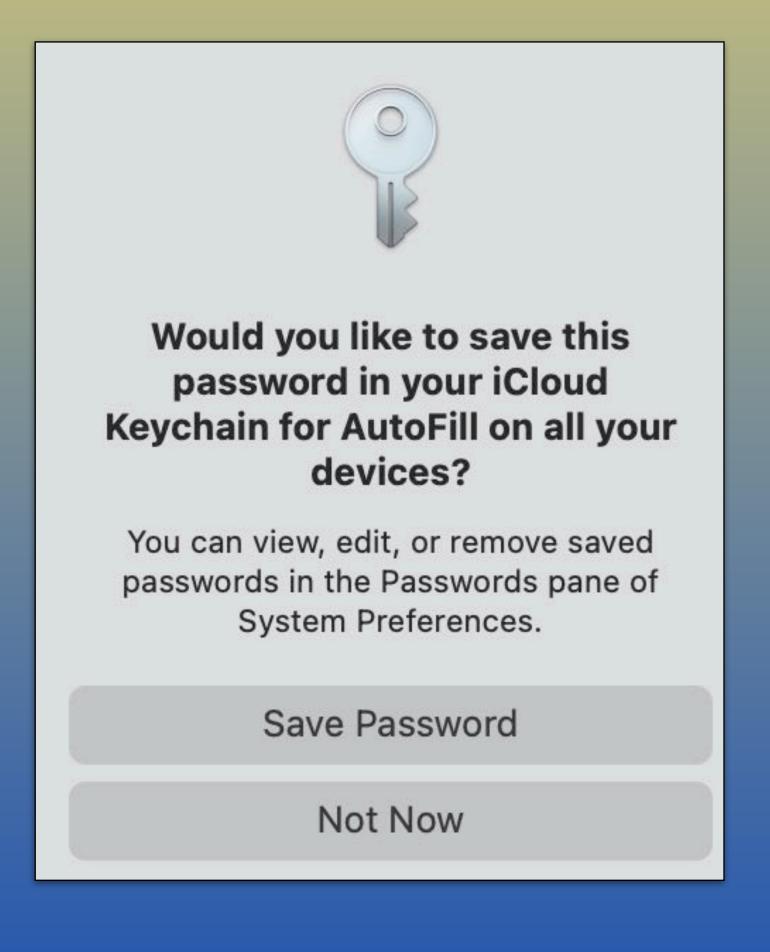
Detect compromised passwords

Your Mac can securely monitor your passwords and alert you if they appear in known data leaks.



When going to a new website to save a user name log-in and password this prompt will appear:

> When saving a password this might be all you see.



## Generate random passwords via Keychain Access App



https://macmost.com/3-ways-to-generate-random-passwords-on-a-mac.html



## Mac

1

#### How to Generate a Password in Keychain Access

12

asswor

8

	New Password Item	兆 N		
	New Secure Note Item	☆ ¥ N		
	New Keychain	∕Σ ₩ N		
	New Identity Preference		000	Password Assista
	Import Items	ራቹ !		
	Export Items	∲# E	Type:	Random
	Add Keychain	<del></del> ት አ	Suggestion	utq\k'kSePw@
	Delete Keychain "login"	~₩⊗	Suggestion.	utdir Koer w@
	Close	₩W	Length:	нноннни
			Quality:	
	Go There Get Info	<b>H</b> 1		
		TT I		
		076 T	Tips:	
	Lock Keychain "login"	H L	Tips:	
inter a name t tem, enter its	Lock Keychain "login" em Name: for this keychain item. If you are adding an Int URL here (for example: https://www.apple.co	HE L	Enter the pass	sword to be stored in the k
Enter a name f tem, enter its Account Na	Lock Keychain "login" em Name: for this keychain item. If you are adding an Int URL here (for example: https://www.apple.co	HEL ternet password m).	Enter the pass	
item, enter its	Lock Keychain "login" em Name: for this keychain item. If you are adding an Int URL here (for example: https://www.apple.co	HEL ternet password m).	Enter the pass	r <u>ength:</u> Weak
Enter a name to item, enter its Account Na Enter the account Password:	Lock Keychain "login" em Name: for this keychain item. If you are adding an Int URL here (for example: https://www.apple.co	HEL ternet password m).	Enter the pass Password Str	r <u>ength:</u> Weak
Enter a name to item, enter its Account Na Enter the acco Password:	em Name: for this keychain item. If you are adding an Int URL here (for example: https://www.apple.co ame:	HE L	Enter the pass Password Str	r <u>ength:</u> Weak

Cancel Add

Open Keychain Access File > New Password Item

Click on the small key icon

Decide the type of password:

- Letters and Numbers
- Numbers Only
- Random
- FIPS -181 compliant

Copy and paste what you generated





# In the very near future... Likely with the next update to iOS 15.4 and Monterey ...

Passwords	C Edit	Cancel	Don 🗘
M macobserver.co	m	M macobserv Last modified 8/	
User Name		User Name	- station and
Password		Password	
ACCOUNT OPTICAS		NOTES	/
Add Notes		Just the most awesome	site ever!
Set Up Verification Code			

# Gift Card Drawing



# This Concludes Keychain Access

# Discussion









