## Sun City Computer Club

Cyber Security SIG

November 4, 2021

Questions, Comments, Suggestions welcomed at any time

Even Now

- Audio recording of this session as MP4 file
- Audio recording available at link shown above

**Audio Recording In Progress** 

SIG attendees are required to be members of the chartered club sponsoring that SIG.
Sun City Community Association By-law

Ever want to be a presenter??

Presenter???

- Browser extension updates
- Browser extension signature updates
- Firefox 94 Site Isolation Technology
- Chromium site Isolation thus Edge, Brave, etc.
- Chrome 95 faster & less memory
- Safari Intelligent Tracking Protection
- Waterfox Firefox fork

## **Browser Updates**

- Yet another stimulus check
- Just click and give up your information

Did the IRS email about your

# Economic Impact Payment?

If they asked you to pay them, that was a scammer, not the IRS.

Tell the FTC:

ReportFraud.ftc.gov



## Scams



- MOST code compilers and development environments
- Unicode digital text encoding standard
- 154 language scripts 143,000 characters
- Bi-directional "Bidi" algorithm

Arabic, Chinese, etc.

Bidi override

Disguise file extensions

Open Source – Manual review

Copy & Paste

Compiler developers & maintainers

 Similar attack Look-alike characters in URLs homograph attacks

## Trojan Source

- macOS vulnerability discovered by Microsoft bypass System Integrity Protection (SIP) Shrootless CVE-2021-30892 Apple fixed October 26
- macOS WizardUpdate malware Update to bypass XProtect

root@JBO-MAC ~ # csrutil status

System Integrity Protection status: enabled.

root@JBO-MAC ~ # head -n 1 /Library/Apple/System/Library/Extensions/AppleKextExcludeList.kext/Contents/Info.plist

<?xml version="1.0" encoding="UTF-8"?>

root@JBO-MAC ~ # echo hi > /Library/Apple/System/Library/Extensions/AppleKextExcludeList.kext/Contents/Info.plist

zsh: operation not permitted: /Library/Apple/System/Library/Extensions/AppleKextExcludeList.kext/Contents/Info.plist

root@JBO-MAC ~ # ./shrootless.sh "echo hi > /Library/Apple/System/Library/Extensions/AppleKextExcludeList.kext/Contents/Info.plist"



SIP bypass by Jonathan Bar Or ("JBO")

Checking command line arguments	[ 0	K]
Checking if running as root	[0	K ]
Checking for system_installd	[ 0	K]
Downloading Apple-signed package	[ 0	K]
Writing '/etc/zshenv' payload	[ 0	K]
Running installer	[ 0	K ]
Cleaning up	[ 0	K ]

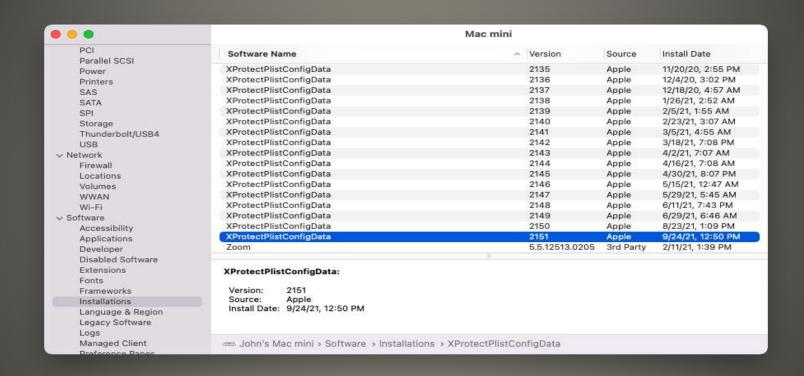
- > Great, the specified command should have run with no SIP restrictions. Hurray!
- > Quitting.

root@JBO-MAC ~ # cat /Library/Apple/System/Library/Extensions/AppleKextExcludeList.kext/Contents/Info.plist

root@JBO-MAC ~ # ls -laO /Library/Apple/System/Library/Extensions/AppleKextExcludeList.kext/Contents/Info.plist

-rw-r--r-- 1 root wheel restricted 3 Jul 28 20:30 /Library/Apple/System/Library/Extensions/AppleKextExcludeList.kext/Contents/Info.plist

#### System Information -> Software -> Installations



## macOS automatic protections

 Microsoft Detection and Response Team (DART)

Warning of large increase in credential spraying One third of account compromises One password, many accounts low and slow - multiple source IP addresses cloud administrators

- Harvard.com blogging platform online classes
- Zale's Jared Kay leaked data
- PAX Technology FBI raid
- Google after Pentagon contract
- Rickroll whole school district

## **Current Issues**

- "do you really want to leave?"
- Back button does not go back
- Adobe patches everything
   USE Adobe site to check and update
- Coordinated DDOS attacks of VoIP providers and their providers Thus police, ...
- iPhone sound help
- iPhone sound spy
- Smart device recording
- Groove Ransomware Hoax

## **Current Issues**

- Prosecute St Louis Post-Dispatch "attempt to embarrass the state and sell headlines for their news outlet"
- F12 view source

## Missouri governor

• • •		MacBook Pro		7
Controller Diagnostics	Software Name	Version	Source	Install Date
Disc Burning	macOS 12.0	12.0	Apple	7/1/21, 6:32 PM
Ethernet	macOS 12.0	12.0	Apple	7/16/21, 4:51 PM
Fibre Channel	macOS 12.0	12.0	Apple	7/28/21, 1:54 PM
FireWire	macOS 12.0	12.0	Apple	8/12/21, 3:40 PM
Graphics/Displays	macOS 12.0	12.0	Apple	9/1/21, 9:44 AM
Memory	macOS 12.0	12.0	Apple	9/23/21, 2:09 PM
NVMExpress	macOS 12.0	12.0	Apple	10/1/21, 10:40 AM
PCI	macOS 12.0	12.0	Apple	10/7/21, 5:53 PM
Parallel SCSI	macOS 12.0	12.0	Apple	10/15/21, 2:41 PM
Power	macOS 12.0.1	12.0.1	Apple	10/19/21, 12:15 PM
Printers	macOS 12.0.1	12.0.1	Apple	10/22/21, 3:21 PM
SAS	macOS 12.1	12.1	Apple	10/29/21, 6:39 PM
SATA	C		1,000,000	
Thunderbolt/USB4 USB  V Network Firewall Locations Volumes WWAN Wi-Fi V Software Accessibility Applications Developer Disabled Software Extensions Fonts Frameworks Installations Language & Region	Version: 12.1 Source: Apple Install Date: 10/29/21, 6:39 PM			
Legacy Software				
Logs	John's MacBook Pro > Software > Installations > macOS 12.1			

Owner

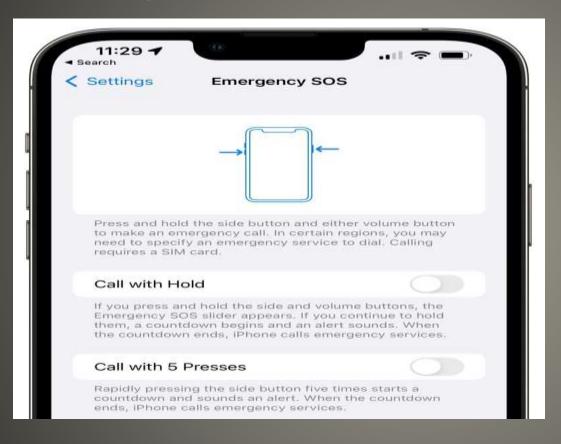
## App Privacy Report





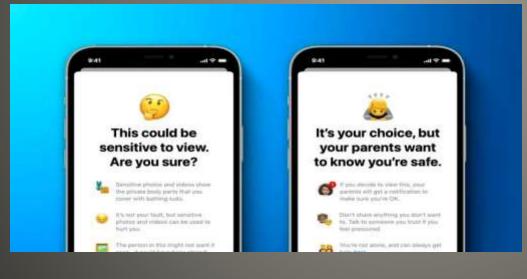
iOS 15.2

## Emergency SOS



iOS 15.2

- Notification Summary card style look
- Communications Safety sexually explicit warning for children

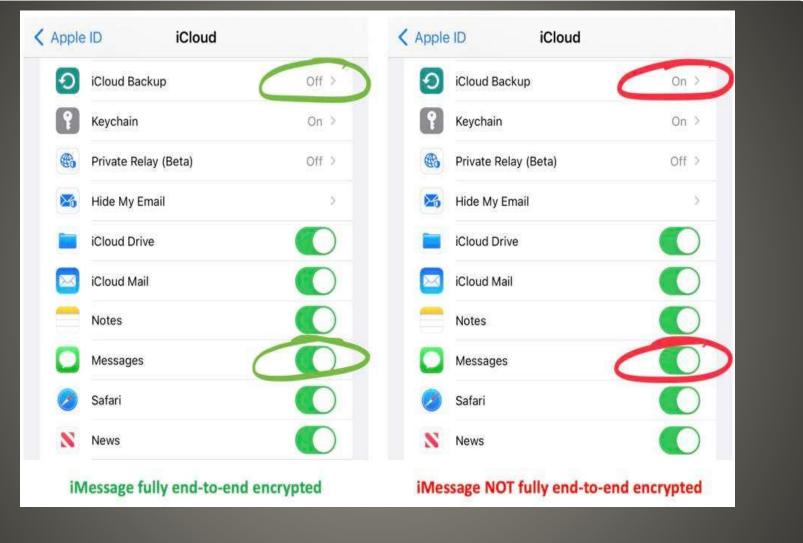




iOS 15.2

- You are not alone and can always get help from a grownup you trust or with trained professionals. You can also block this person.
- You are not alone and can always get help from a grownup you trust or with trained professionals. You can also leave this conversation or block contacts.
- Talk to someone you trust if you feel uncomfortable or need help.
- This photo will not be shared with Apple, and your feedback is helpful if it was incorrectly marked as sensitive.
- Message a Grownup You Trust.
- Hey, I would like to talk with you about a conversation that is bothering me.
- Sensitive photos and videos show the private body parts that you cover with bathing suits.
- It's not your fault, but sensitive photos can be used to hurt you.
- The person in this may not have given consent to share it. How would they feel knowing other people saw it?
- The person in this might not want it seen-it could have been shared without them knowing.
   It can also be against the law to share.
- Sharing nudes to anyone under 18 years old can lead to legal consequences.
- If you decide to view this, your parents will get a notification to make sure you're OK.
- Don't share anything you don't want to. Talk to someone you trust if you feel pressured.
- Do you feel OK? You're not alone and can always talk to someone who's trained to help here.
- Nude photos and videos can be used to hurt people. Once something's shared, it can't be taken back.
- It's not your fault, but sensitive photos and videos can be used to hurt you.
- Even if you trust who you send this to now, they can share it forever without your consent.
- Whoever gets this can share it with anyone-it may never go away. It can also be against the law to share.

#### **Text in iOS 15.2**



## Apple iMessage app

- YeahBut
   Apple needs to read so YOU can recover
- WhatsApp
   unencrypted version of WhatsApp chat history

## iCloud backup

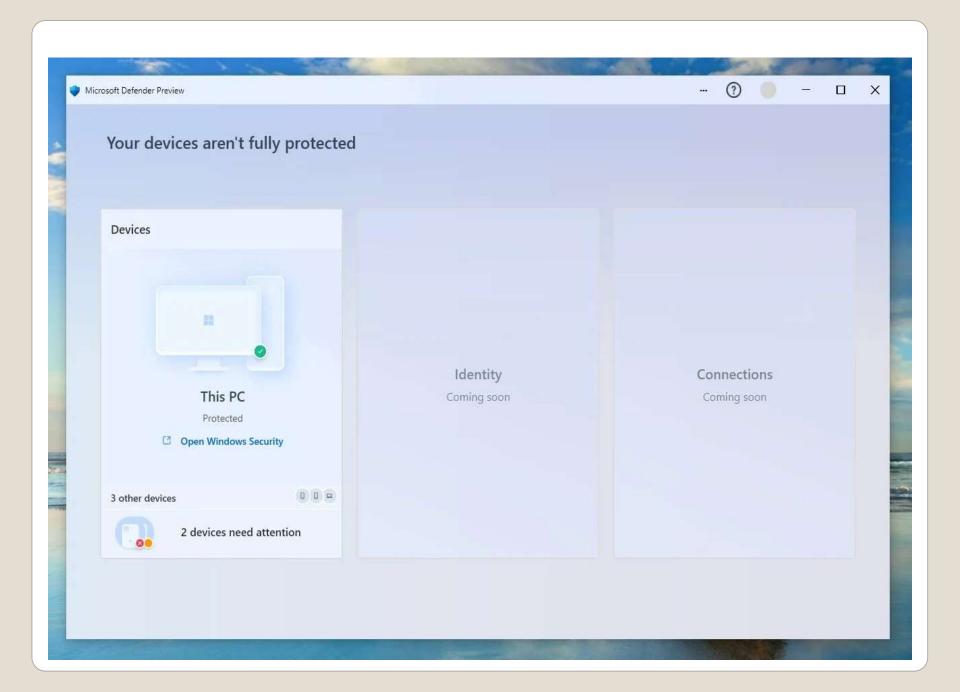
 Rich Communication Services (RCS) next generation SMS

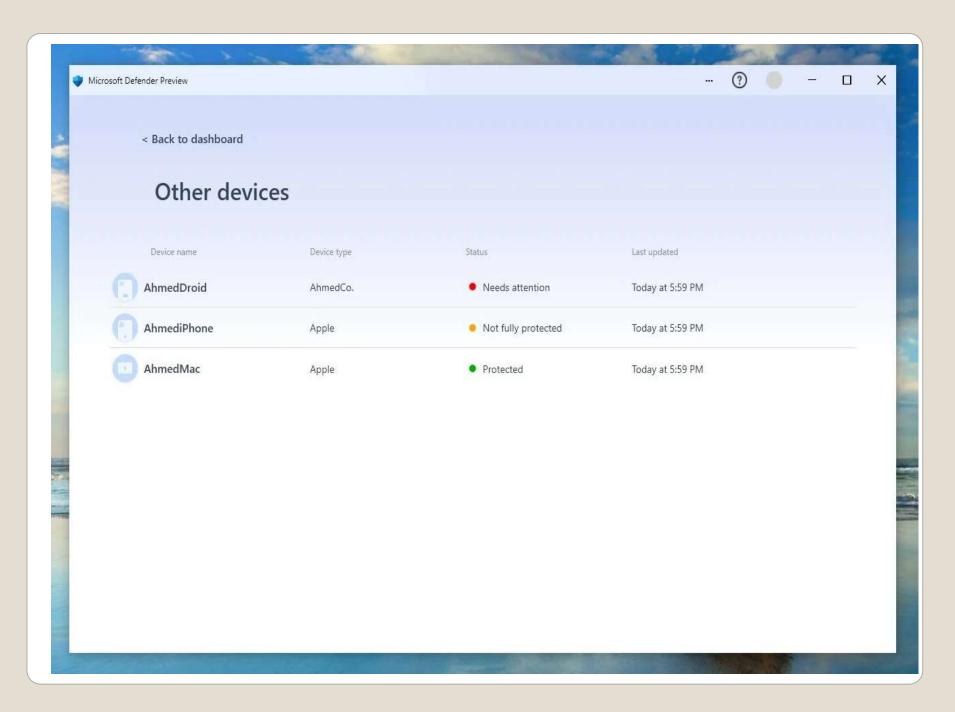
Use messaging systems fir for purpose

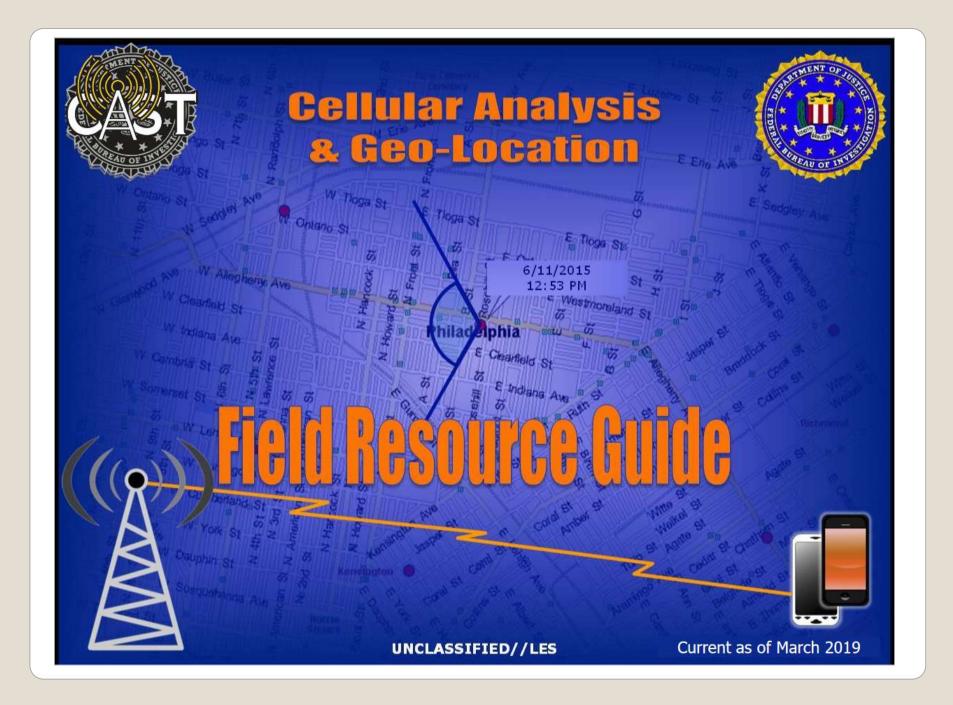
Google

- Remember Windows Defender?
- Home network administrators Android, iOS, Mac, ??
- Home networks Complicated Connected Diverse
- Gibraltar
- Phishing protection
- password breach detection
- IDentity theft protection
- Security recommendations
- And more

#### Microsoft Defender





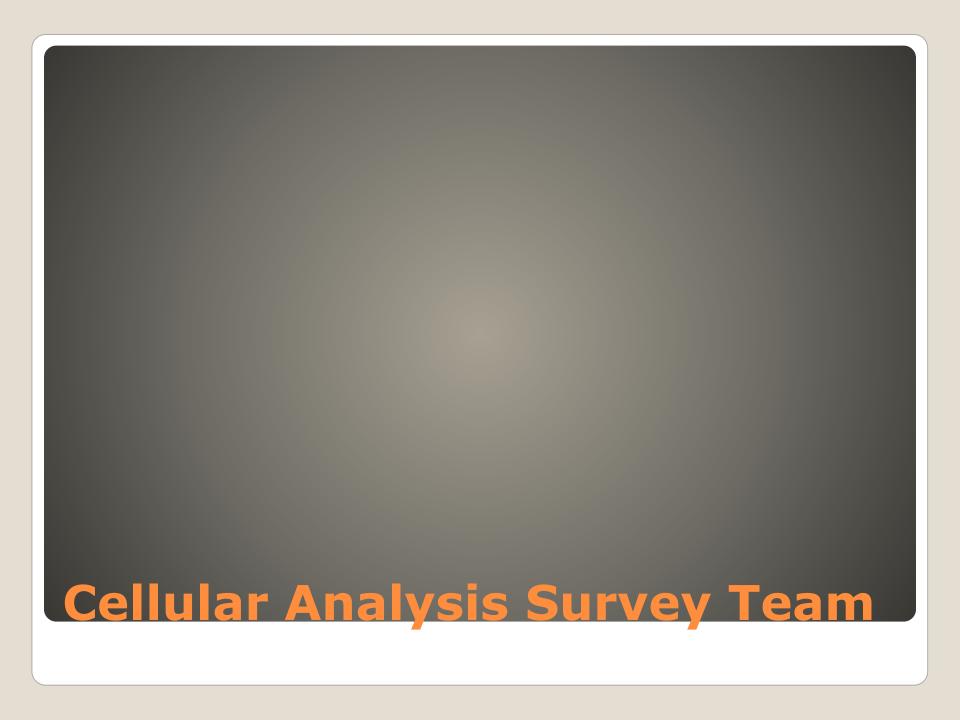




#### Disclaimer

Studying this manual and attending the basic training does **NOT** constitute an individual as certified to testify.

Cell analysis is a great investigative tool. However, testifying in court regarding cell phone records is difficult and requires significant training. Prior to testifying, CAST agents receive over **500** hours of training.



Some MACs get "bricked"
 Cyber Security News Archive

Some MACs have "memory leak"
 Activity Monitor Memory Tab Sort





macOS Monterey

- Helpful < > Harmful
- Awareness, Preparedness, Understanding

Computer Club, Help Center, SIGs, Presentations, FirstTime, classes Cyber Security SIG meetings, NEWSBLOG Internet

• Questions, suggestions, comments?

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