

# Sun City Computer Club

Cyber Security SIG  
April 18, 2024

**Questions, Comments, Suggestions welcomed at  
any time**

**Even Now**

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

## Audio Recording In Progress

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

- Cyber Security News Blog/Archive
- Announcements
- Message Board
- Computer Club Wiki

- Xi's Enigma Machine?  
password-busting quantum supercomputer  
Microsoft digital key stolen / replicated  
CISA 45 theories
- Israel Justice Ministry cyber incident
- Roku ads for third-party connections to Roku TVs on pause
- OmniBridge AI ASL <-> Text
- 4 Open-Source Antivirus for PCs  
MoonSecure  
ClamWin  
Clam Antivirus  
Armadito Anti-virus  
Caution Antivirus sees inside files you may not be able to see

## Current Issues

- K-12 data
- MalwareBytes Digital Footprint
- Google One Dark Web Scan
- Have I Been Pwoned
- DuckDuckGo Privacy Pro

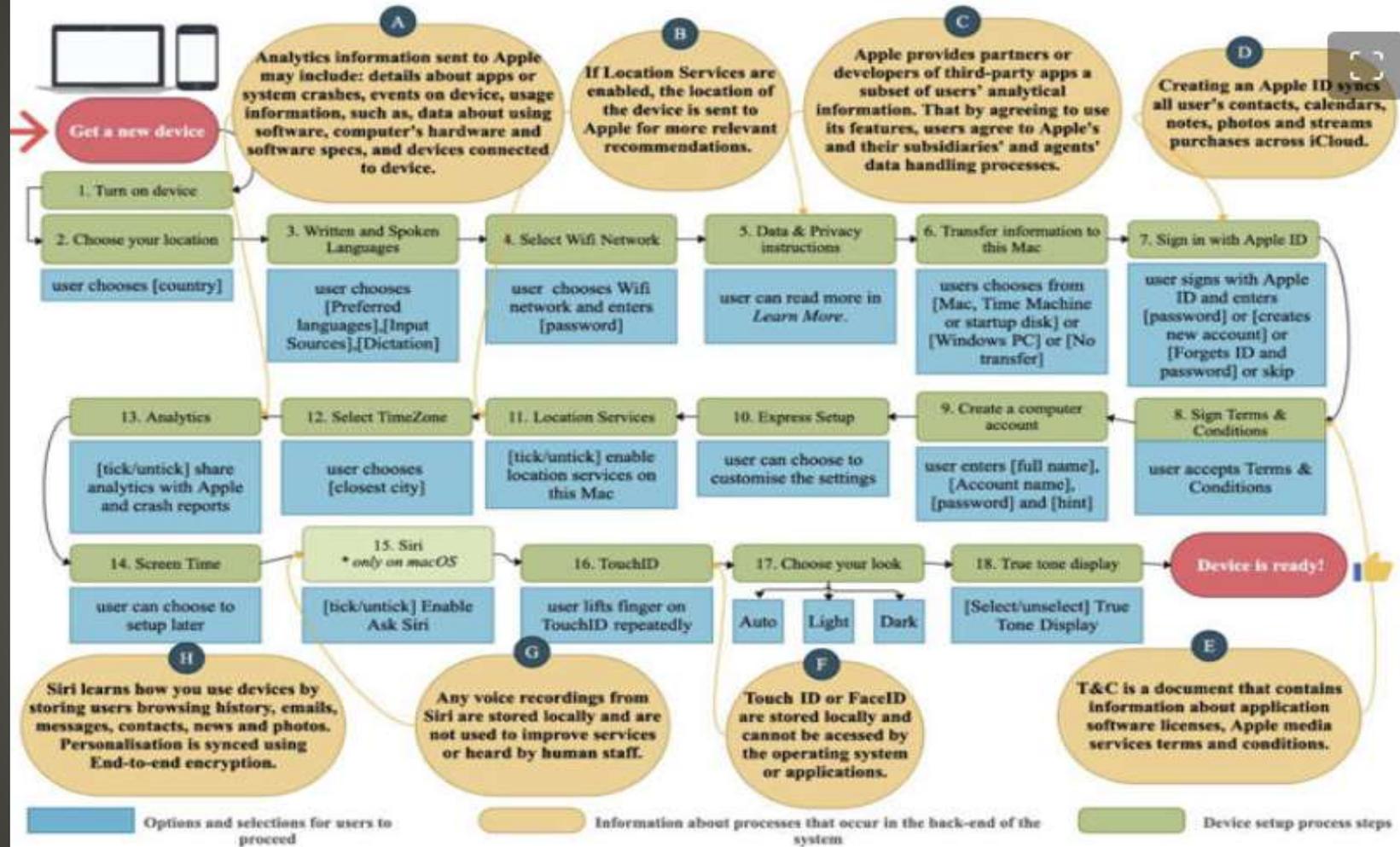
**Issues**

- Norton 360 with LifeLock Select: Best overall
- IdentityForce UltraSecure+Credit: Best for complete coverage
- IDShield 3 Bureau Individual Plan: Most well-rounded
- Aura – All-In-One ID Theft Protection: Best for families
- Identity Guard: Most flexibility
- PrivacyGuard Identity Protection: Best for basic coverage

## **Business Insider Identity Theft Protection Services**

- Aalto University Study
- [Privacy of Default Apps in Apple's Mobile Ecosystem](#)

**Apple Data Privacy**

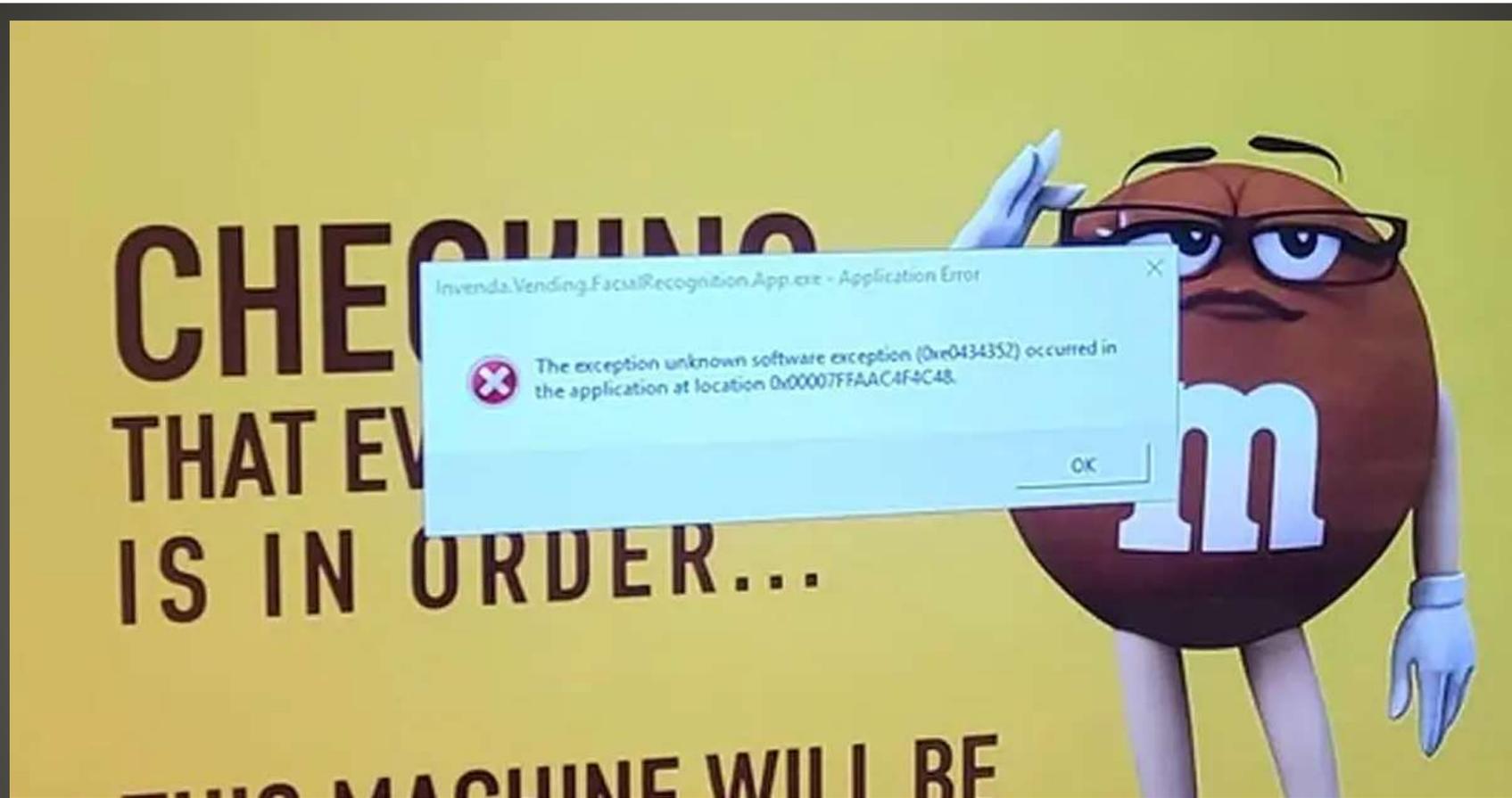


**Privacy. That's iPhone**

- 2022 236.1 million ransomware attacks
- 3-2-1
- Ransomware gets most backups & data
- 3 copies
- 2 different media
- 1 offsite & immutable
- Cloud Multi Cloud
- Cloud availability
- 3-2-1-1-0
- 3 copies
- 2 different locations
- 1 copy offsite
- 1 copy immutable
- 0 errors

## **3-2-1 Backup**

**Remember Invenda?**



**Vending Machines creepy**

- University of Waterloo in Canada
- Error screen
- Touchscreen to increase sales
- Facial recognition “feature” with no warning
- Cover cameras
- Manufacturer’s website demographic sensor
- Age, gender
- Yeahbut “data is local”
- No storage, communication, transmission of imagery
- Touchscreen offers:  
    combo deals, promotions, AI powered production  
    recommendations
  
- Super Market mood cameras

**Vending Machines creepy**

- Future of Automated Retail

Session duration

Taps & interactions

heat maps

payment usage

conversion sales

basket status

eWallet usage

demographics

Other

- Protected locations
- Omit employee – customer interactions
- Hoptix/Riley training      customer voices

**Remember Invenda?**

- If you think that crafting a prompt with a chatbot was challenging, imagine being hungry, in a hurry, and stuck in a vehicle at a window while trying to have a conversation with a Google AI chatbot, while traffic backs up—and having the whole thing recorded and analyzed for a loyalty program. Or worse, to have an AI prep the meal, as Taco Bell, Pizza Hut, and KFC are currently experimenting with, get it wrong, and have no timely recourse.

**AI & fast food / Fast Data**

- Instagram with Meta AI



## Current Issues



# Instagram Meta AI

- House reauthorizes FISA w/o warrant requirement  
2-year extension
- Business Analytics firm Sisense  
CISA advisory – reset credentials API password keys
- DuckDuckGO Privacy Pro subscription  
Personal Information removal little to no user involvement  
Privacy focused VPN Wireguard  
Identity Theft restoration service \$99/yr Iris  
Payments via Apple App Store, Google Play, Stripe  
No account, no payment information  
53 data brokers  
Information stored encrypted database locally (no mobile)  
Opt-outs hours -> weeks

## Current Issues

12

## Removals in progress

Personal info removal  
can take around 2-3 weeks



Spokeo

Sofia Smith



Verecor

Sofia Smith

### Scanning sites...



See scan results in only a few minutes...



Mac



Windows

# DuckDuckGO Privacy Pro

- Google infini-attention technique  
Maintain quality over a million tokens quadric complexity
- Yibico warning for YubiKeys on Windows YSA-2024-01  
CVE-2024-31498 7.7  
YubiKey Manager as Administrator prior to 1.2.6  
Browsers other than Microsoft Edge
- Baseboard Manager Controllers from several manufacturers  
Lights-Out management lighttpd  
2018 new lighttpd version various use-after-free issues  
no CVE vulnerability number undetected 5 years no fix
- Gmail "Our automated account recovery process allows a user to use their original recovery factors for up to 7 days after it changes."

<https://support.google.com/accounts/answer/7299973?hl=en-english>

How did "they" bypass MFA? Session cookies

## Current Issues

- CISA Emergency Directive (ED 24-02)  
Federal agencies search for indicators of compromise  
Microsoft email correspondence

- LG Smart TVs  
webOS vulnerabilities  
Use those vulnerabilities for access and botnet

The following models are at risk:

LG43UM7000PLA (webOS 4.9.7 - 5.30.40)

OLED55CXPUA (webOS 5.5.0 - 04.50.51)

OLED48C1PUB (webOS 6.3.3-442 (kisscurl-kinglake) - 03.36.50)

OLED55A23LA (webOS 7.3.1-43 (mullet-mebin) - 03.33.85)

Settings > All Settings > Support    Software Update

Smart TVs can be hacked    some pre-hacked

- Very advanced cyberattack targeting iPhone

Mercenary attacks    high value targets

Apple alert

"Apple detected that you are being targeted by a mercenary spyware attack that is trying to remotely compromise the iPhone associated with your Apple ID -xxx-,"

## Current Issues

- Microsoft Azure hosted server w/o protection security credentials, scripts, code, configuration files  
Notified February 6<sup>th</sup> Locked down March 5<sup>th</sup>
- All party consent states
  - California
  - Connecticut
  - Delaware
  - Florida
  - Illinois
  - Maryland
  - Massachusetts
  - Michigan
  - Montana
  - Nevada
  - New Hampshire
  - Oregon
  - Pennsylvania
  - Vermont
  - Washington

## Current Issues

- Microsoft Patch Tuesday April 9  
147 vulnerabilities
- Raspberry Robin Windows worm Windows Script Files
- 60 Minutes episode April 14 *Scattered Spider*  
13-40 year-old gaining billions us loosing billions  
If breached companies spending billions on security ...
- Giant Tiger data breach Canada discount store chain  
Available for free 2.8 million clients  
Unique email addresses, names, phone numbers, physical addresses  
Third-party vendor
- Amazon new Internet service Project Kuiper  
Two test LEO satellites  
Standard 400Mbps Pro 1Gbps Portable 100Mbps

## Current Issues

- Gmail “Manage Subscriptions” email patterns gather subscriptions
- D-Link NAS devices hard coded backdoor Blank password!
- Palo Alto Global Protect firewall
- Chirp Systems Chirp Access smart locks
- “Disable iMessage” on iDevice advice Based on CodeBreach posting iDevice 17.5 Beta 2 released 4/16/2024
- United Healthcare \$1.6B 2025 recovery Data for sale
- HUGE increase credential stuffing attacks 4,000 IP addresses 2,000 accounts  
**WARNING Account Lockouts at global scale**
- PuTTY SSH client versions 0.68 – 0.80 private key recovery
- Ghost hackers recently deceased

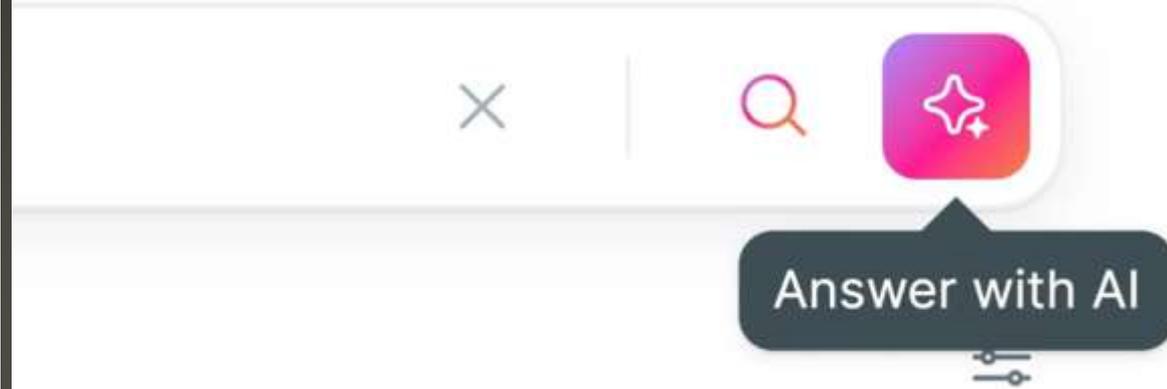
## Current Issues

- Target suit  
Violation of Illinois Biometric Information Privacy Act  
Facial recognition on store entry  
Biometrics can not be changed
- T-Mobile employee SIM Swap
- FBI warning – Scam Unpaid toll charges
- Fortinet FortiClient Connect:fun
- Fingerprint Accuracy or lack thereof  
Register same finger multiple times  
Register multiple fingers  
Alignment, Clean sensor, Screen Protector, Re-calibrate
- Muleshoe Texas cyber attack on water facility  
Other facilities urged to use extra cautions  
SCADA

## Current Issues

- AT&T “our data” not “our data”  
yeahbut “Your passcodes”
- Greylock McKinnon Associates  
SSNs leaked  
Maine government data breach notification  
May, 2023
- Analysis of Cookie Notice Compliance  
**65.4% Do Not**  
Legislation, Regulation, Companies, Partners

## **Current Issues**



- Privacy focused
- Source attribution
- AI assistant Leo
- Summarizer

**Brave Answer with AI**



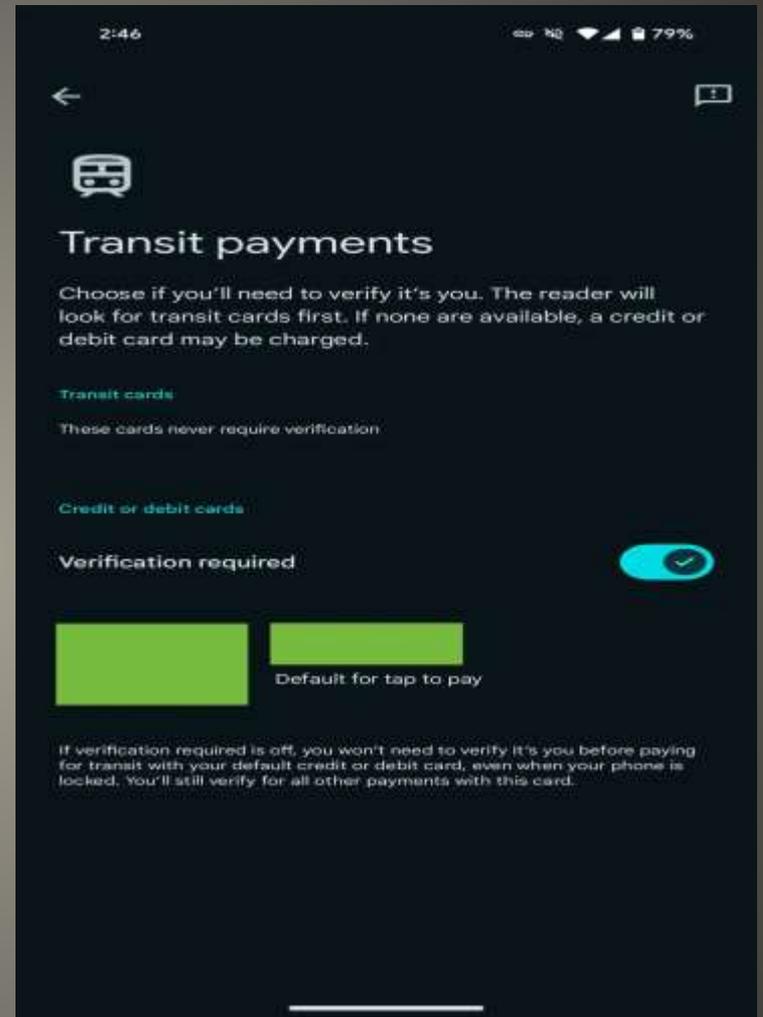
We and 772 third parties process data to: store and/or access information on your device, develop and improve products, personalise ads and content, measure ads and content, derive audience insights, obtain precise geolocation data, and identify users through device scanning. Some third parties may process your data on the basis of their legitimate interest. You may exercise your right to consent or object at any time by selecting the Manage preferences link below, or through Outlook settings. By clicking the Accept all button, you agree to the use of these technologies and the processing of your data for these purposes while using Outlook. [Privacy Statement](#)

Manage preferences

Reject all

Accept all

# GDPR Outlook for Windows Notice



- Verification Settings
- Personal payment methods

# Google Wallet Android

- XProtect – scan for known malware  
Remediate
- Block malware Gatekeeper, Notarization
- Prevent launch or execution
  
- YeahBut “You have a virus!”  
Probably not Application Notification  
Masquerading as System Alert  
[updates-mac.com](https://updates-mac.com) “Allow Notifications”
- Browser Settings > Websites

**macOS**

- Cyber Security SIG Presentation 21-Mar-2024
- Automatic Content Recognition (ACR)
- Advertisement Identification (AdID)
- Accept? unAccept?
- Amazon Fire

Settings > Preferences > Privacy Settings > Automatic Content Recognition

Settings > Preferences > Privacy Settings

Device Usage Data

Collect App and Over-the-Air usage

Interest-Based Ads

- Google TV   Android TV   Hisense   Sony

Settings > Privacy > Ads

- LG

webOS

settings > All Settings > General > Live Plus

# Smart TVs revisit

- ISP throttling
- Streaming privacy kinda
- Geofencing with limitations
  - Personal preference, technical knowledge, patience, budget, home network
- VPN apps on device Future limitations
- Google & Android Google Play Store
- Local VPN => Faster
- Home Network – Router with VPN  
Ethernet cable

**VPN & SmartTV & Streamers**

- Roku Hisense Insignia TCL  
Settings > Privacy > SmartTV Experience  
DISABLES Enable Auto Notifications & more ways to watch  
Settings > Privacy > Advertising
- Samsung  
Settings > Support > Terms & Poli Viewing Information Services  
Internet-based advertising
- Vizio Google Chromecast  
All or Nothing at all
- Internet of Things SIG  
Streaming TV  
NextGen TV and others
- Google World SIG  
Google TV
- Watch the Watchers  
Ethernet Hardware Tap

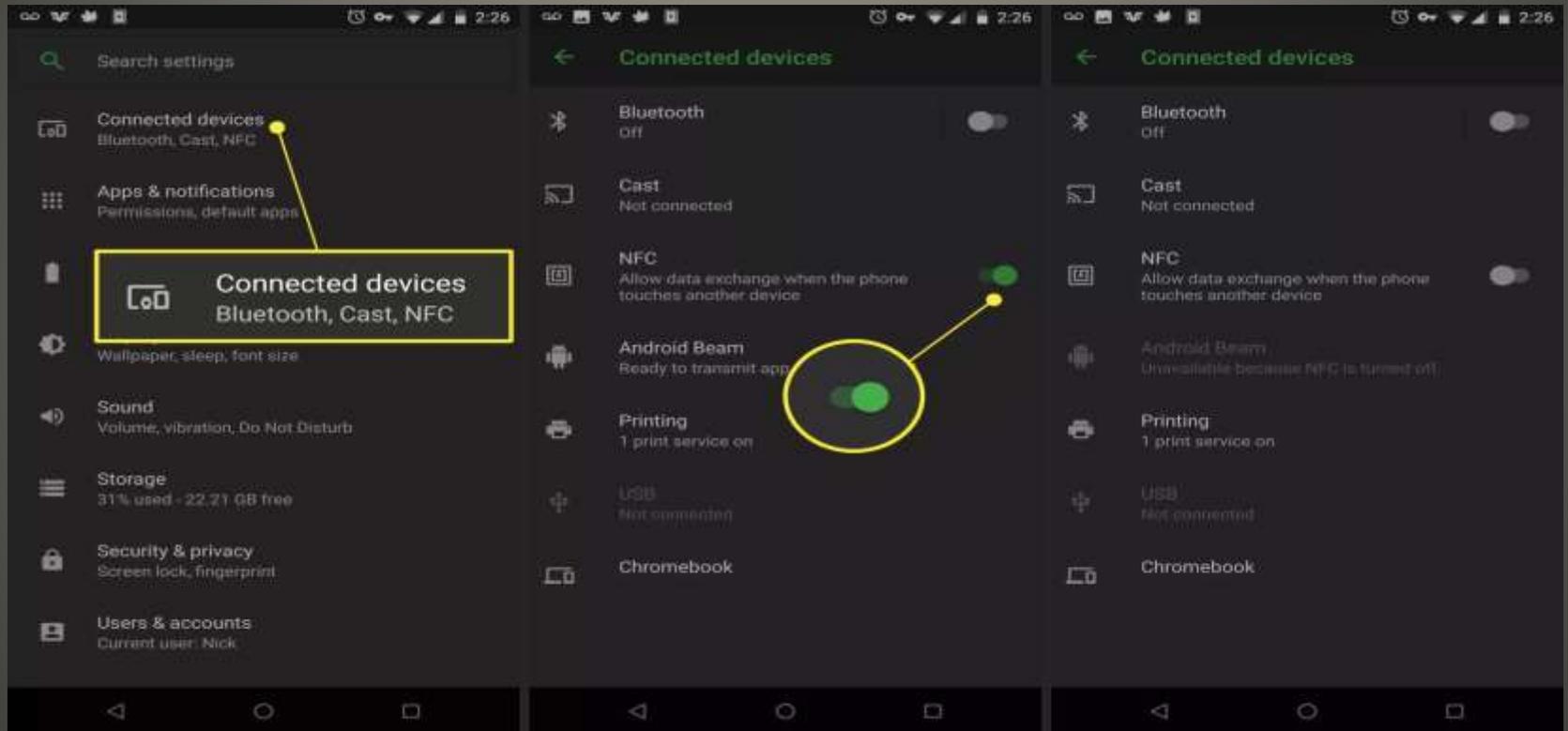
## Smart TVs revisit



- Reset Password
- Allow Don't Allow
- Push bombing
- Don't Allow as you should
- Allow – just quit!! NO PLEASE NO
- Follow up Phone call – NOT Apple Support
- Yeahbut they have my information!

## Apple 2FA Bombing

- iPhone no ability to turn off
- Android



**NFC Near Field Communications**

- 28-character alphanumeric code
- Good
  - Strong key
  - Only you have it
  - Timely account recovery
  - Nevermind On Off New
- Bad
  - Loss is a real loss
  - Disable account recovery
  - Inconvenient

**AppleID Recovery Key**

- Recovery Seminar
- <https://vimeo.com/882272974?share=copy>
- NOW, Your input, experiences, ...
  
- Helpful < - > Harmful
- Awareness, Preparedness, Understanding

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

- Questions, suggestions, comments?

**SCCCCyber@gmail.com**