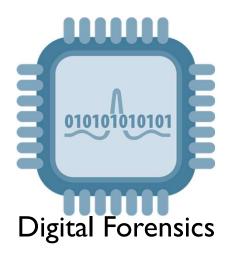


UNIT STRUCTURE

- Major Crimes
 - Lieutenant
 - Sergeant
 - Five Detectives
 - 2- Video Analysis
 - 2-Computer Forensic Analysis
 - I-Investigative Support / Mobile Device Forensics
- Partners with the United States Secret Services
 - Cyber Crime Task Force









ROLES OF THE UNIT

DIGITAL FORENSICS

THE COLLECTION OF ELECTRONIC EVIDENCE FROM A ELECTRONIC DEVICE OR MEDIUM



TRAINING

- International of Computer Investigative Specialists (IACIS)
 - Certified Forensic Computer Examiner (CFCE)
- Law Enforcement Video Analysis Training (LEVA)
 - Levels 1-3
- Tool Specific Training
 - Cellebrite Certified Mobile Device Examiner (CCME)
 - Sanderson SQLite Complete Training
- National Computer Forensic Institute (NCFI) Hosted by the USSS
 - Computers/Mobile
 - Network Intrusion
 - Other Courses





DIGITAL FORENSIC REQUESTS

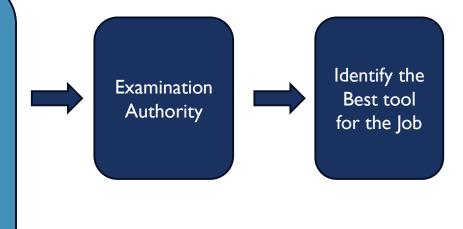
I need digital evidence collected



TYPES OF REQUESTS

Smartphones

- Computers
- Storage Media
 USB Drives, etc..
- Vehicles
- Video Collection/Analysis/ Conversion
- Internet of Things (IOT)
 Gaming Systems
 Home AI Systems
 (Alexa/Google Home)



TOOLS OF THE TRADE



















BEST PRACTICES

- Scientific Working Group of Digital Evidence (SWGDE)
 - Comprised of Multiple Agencies to include NASA
 - Establishes Guidelines for Digital Forensics
 - Originally Established for File Development



EXAMINATION REPORT

- Create a Forensic Report
 - Provide to the Detective
 - Assess Need for Al Media Categorization
- Forensic Analysis
 - In-Depth Data Review
 - Evidence Validation Steps
 - Longer Process

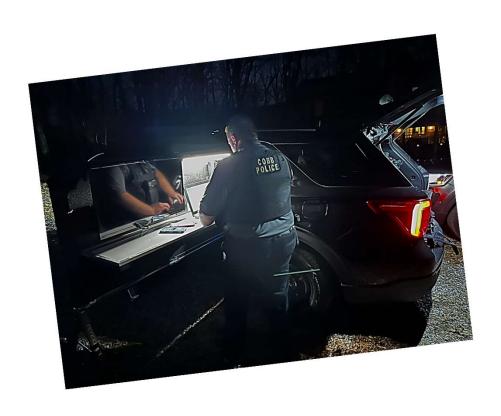


ADVANCED PROCESSES

- Chip-OFF
 - Remove a Memory Chip from the Control Board
- Mobile Phone Repair
 - Batteries/Ports/Screens
- In-System Program (ISP)
 - Soldering wire to pre-determined points on a control board to collect the data.
- Vehicle Infotainment
 - Radio/Touch Screen Data from a Vehicle



MOBILE FORENSIC SUPPORT





CSI EFFECT

- Digital Evidence Tales econd
- DNA Comes Back the MME D?
- You do get within the same day.

To conduct a Proper investigation, it takes days to months and even years to collect all the needed evidence for a complete case.

COMMUNITY OUTREACH

TECHNOLOGY-BASED CRIMES UNIT







INVESTIGATION SUPPORT

TBCU SUPPORT



INVESTIGATIVE SUPPORT

- Crimes with Electronic Evidence
 - Social Media Information Review
 - IP Address Tracing Assistance
 - Fraud Investigations Data Review/Comparison
 - Video Area Canvass to Trace Persons of Interest
 - Data Collaboration



CRIMINAL INVESTIGATIONS

TECHNOLOGICAL BASED OFFENSES



TBCU OFFENSE TYPES

- Computer Trespass
 - Unauthorized Access to a system in Cobb County.
- Computer Theft
 - Taking Documents from a Server in Cobb county when the individual did not have authorization.
- Computer Invasion of Property
 - Unauthorized access to a computer/network in Cobb County with intent of examining any employment, medical, salary, credit or other financial data. This does not apply for social media accounts.
- Computer Forgery
 - Alters or Deletes Data on a computer/network in Cobb County.
- Computer Password Disclosure
 - Person without authority discloses a password to a unauthorized individual to gain access to a computer/network in Cobb County.

RANSOMWARE/DENIAL OF SERVICE

- Ransomware
 - Large Business in Cobb County
 - Cobb County Construction Company
 - Malicious Email
- Denial of Service
 - Poor Password Management
 - Took Over the whole system and began to enact service not authorized too.



COMPANIES BREACHED

- In 2023 (idtheftcenter.org)
 - 3,000 Plus Companies
- Company Types
 - Healthcare
 - IT Services
 - Media
 - Cyber Security
 - Telecommunications
 - Manufacturing



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SPOOFING



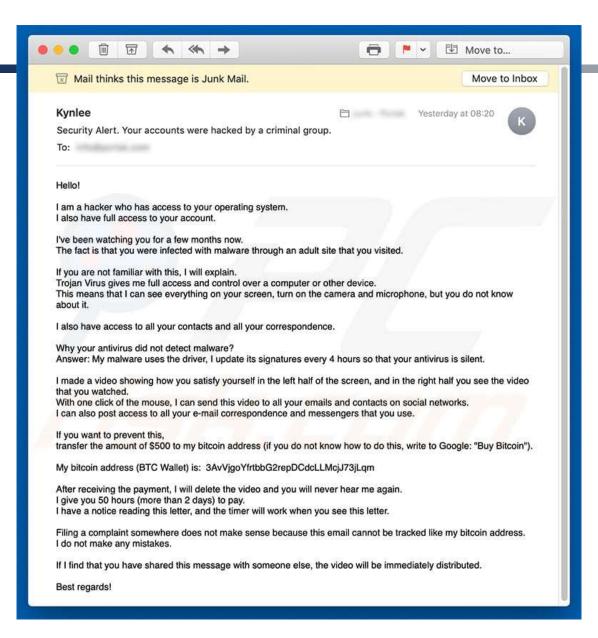
PHISHING TEXT MESSAGES

BOA: Someone had accessed your account click this link: https://itheys4.yoghy.com

Amazon, Someone used your password click this link to change http://isth.7th.com

UPS:Your package has been delayed click the link: https:\\oaiuth.yuis.com

Hey Mom, I cannot talk I was kidnapped. They said you must send money to this link: https://ituehst.ytd.com



HUMAN ELEMENT



- Poor Password Management
 - Password1234 / Password1234@ / Password1234#
- Failure to Set-Up 2FA
- Email Breaches
 - Clicking Links / Opening Documents
- Building Security
 - Allowing People Entry into Areas they do not have access to
 - Assuming a person you are holding the door for works there as well
 - Notify Proper Authority for personnel

FCC CONSUMER INFORMATION



INTERNET CRIME COMPLAINT CENTER (IC3)

- Run by the Federal Bureau of Investigations (FBI)
- Open to Private and Public Sector
- Recent Public Service Announcements
- Recourses if you fall victim to a Cyber Crime



SELF-CHECK LIST

PROTECT YOURSELF



PERSONAL CHECKLIST

- Parodically Change your passwords
 - Use a Password Creditable Password Manager
 - 2FA (Two Factor Authentication)
 - Passkeys
- Public Wi-Fi Networks
 - Use a Virtual Private Network
 - Do Not Access Sensitive Information
 - Banking, Medical, etc..
- Always call the company yourself through a validated number.
- Call The Family through your phone if you do not trust the person on the other side of the line.

- Do not give private information to unknown numbers or callers.
- Wait a few seconds after picking up and clap or snap your fingers before answering the phone.
- Use virtual card numbers where applicable.
- Download only Trusted Applications
- If a message looks off from a Facebook contact the friend directly.
- Monitor Notices of Companies being hacked.
 - Check your accounts tied to those companies and change the passwords.

TECHNOLOGY DEPENDENCY

- Technology works perfectly 100% of the time.
 - FALSE
 - Can it do funny things and not mean you are being hacked? Yes
- Data breaches are from poor security on the electronic device.
 - FALSE: 74% of Data breaches are because of human error. (Infosec: 2023)
- Technology is 100% Secure.
 - FALSE





THANK YOU

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TECHNOLOGY-BASED CRIMES
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