

# FBI John

The Voice of Cyber & Security

SPEAKER | AUTHOR | CONSULTANT

## *CYBERSECURITY*



*The Premier Organization for Revenue Cycle Professionals*

*March 24, 2022*

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## Cybersecurity



**ILLINOIS AAHAM**  
American Association of Healthcare Administrative Management  
*The Premier Organization for Revenue Cycle Professionals*

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## Street Price of Stolen Internet Items

Item	Percentage	Price
Bank Account Number	23%	\$10 - \$1,000
Credit Card Number	13%	\$0.40 - \$2.00
Full Identity	9%	\$1 - \$15
Online Auction Account	7%	\$1 - \$8
Email Addresses	5%	\$0.83/MB - \$10/MB
Email Passwords	5%	\$4 - \$30

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**Browse Categories**


- Fraud 5517
- Accounts & Bank Drops 2887
- CVV & Cards 991
- Dumps 242
- Other 784
- Personal Information & Scans 613
- Drugs & Chemicals 11416
- Guides & Tutorials 2219
- Counterfeit Items 711
- Digital Products 1841
- Jewels & Gold 278
- Weapons 284
- Carded Items 395
- Services 1296
- Other Listings 425
- Software & Malware 238
- Security & Hosting 104

**Search Results [Save Search]**




**[FE 100%] + USA PROFILES SSN/DOB/DLBANK + FREE COCVV+**  
Item # 2451 - Personal Information & Scans - walsawa (1443)  
Views: 15400 / Bids: Fixed price  
Quantity left: Unlimited (303 automatic items)

**Buy price**  
USD 1.50  
(0.8584 BTC)




**EVOscans custom made scan**  
Item # 1092 - Personal Information & Scans - Battalion (348)  
Views: 6635 / Bids: Fixed price  
Quantity left: 2

**Buy price**  
USD 34.23  
(0.1584 BTC)



**+USA CC WITH KNOWN BALANCES + [500 \$-40,000 \$]**  
Item # 8477 - Personal Information & Scans - SPARTANZ (863)  
Views: 4858 / Bids: Fixed price  
Quantity left: Unlimited

**Buy price**  
USD 0.00  
(0.0000 BTC)



**Personal Information +**  
Item # 241 - Personal Information & Scans - Bookletick (257)  
Views: 4822 / Bids: Fixed price  
Quantity left: Unlimited

**Buy price**  
USD 1.00  
(0.0048 BTC)

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## Attacks On Business

*County pays ransomware to restore business*  
- October 2021 news report

*Hackers Attack When Most Vulnerable*  
- September 2021 news report

- Disasters followed by ransomware attacks
- Distracted business an opportunity for cyber criminals
  - FL & LA suffered attacks after 2021 hurricanes

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## Medical Facilities

**Healthcare targeted**  
Hospitals, surgery, patient services

**Technology hacked**  
Forced to work off-line and cancel treatments  
Payment and Insurance info compromised



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## Healthcare Hacks

**United Care**  
• Denied access national "My Health Record"

**Scripps Health**  
• System offline 4 days

**European Hospital**  
• Ransomware attack
 

- 700 GB info stolen
- \$20 million demand
- Post patient info online



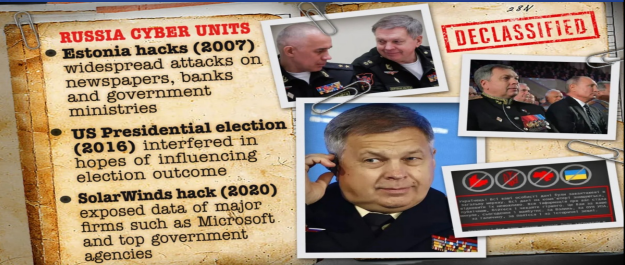
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## Cyber Terrorism

**RUSSIA CYBER UNITS**

- **Estonia hacks (2007)** widespread attacks on newspapers, banks and government ministries
- **US Presidential election (2016)** interfered in hopes of influencing election outcome
- **SolarWinds hack (2020)** exposed data of major firms such as Microsoft and top government agencies



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## How Vulnerable Is Your Computer?

First time computer  
connected to Internet,  
how long before it is  
compromised?

**5 MINUTES**

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## Cost of Data Breach

**2021 Worst year on record**  
15.1 billion records compromised  
1,580 reported breaches  
*ID Theft Resource Center*

**U.S. Average - \$8 million**  
\$242 per record  
*Ponemon*

**Capital One Breach**  
100 Million Records

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## 52% Businesses Defenseless Against Cyber Attacks

[net-security.org](http://net-security.org)

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## 55% of IT and security professionals zero or low visibility


- Employee behavior
- Application access
- Software downloads

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## Cyber Attacks

- Identity Theft
- Phishing
- Ransomware
- IOT
- Business Email
- Mobile
- Remote Workforce
- Travel



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## Identity Theft

### Identity Theft: Annual Losses in Excess of \$50 billion

By Roger Manning Menden

According to the Federal Reserve Board's (FRB) estimate in 2019, as much as \$50 billion worth of losses are estimated to come from identity theft, resulting in the loss of \$50 billion.

In recent years, the Federal Reserve Board has reported that the Federal Reserve will spend \$50 billion over the next five years to fight cybercrime.

The use of personally identifiable information, such as an individual's Social Security number, can result in serious harm, including identity theft. Identity theft is a serious crime that impacts millions of individuals each year. Identity theft occurs when your information is used without your permission to commit financial crimes. FRB's progress has been made regarding generally available information in the public and private sectors, challenges remain.

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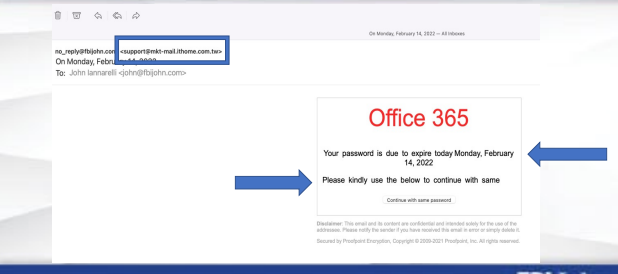
## Prevent ID Theft

- Don't carry SSN card
- Use shredder
- Credit freeze or fraud alert on accounts
- Monitor your credit reports
- SmartIDentity.com

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## Phishing



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## Ransomware



**Crypto**

**Locker**

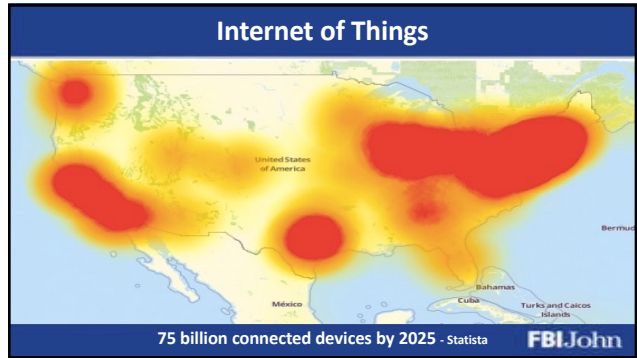
**Spearware**

**Leakware**

**Attack occurs every 14 seconds**

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## Business Email Compromise

**FBI report for last year:**

- 22,000 U.S. businesses victim
- \$12 billion
- 270% increase from prior year

**Example:**

- [John@FBIJohn.com](mailto:John@FBIJohn.com)
- [John@FBIJohn.com](mailto:John@FBIJohn.com)
- [John@FBIJohn.com](mailto:John@FBIJohn.com)

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## Defenses


- Strong Passwords (12- 15 characters)
- 2 Factor Authentication
- Telephone confirmation for fund transfers
- Beware of unexpected urgency
- Ongoing cyber security training

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## Mobile Devices

- **The Risks**
  - Contact list
  - Infect desktop w/ malware
  - Smishing
  - Vishing
  - Juice Jacking



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## Remote Workforce

- Employees not thinking about company security
- Cyberattacks targeting employees
- Attacks aligning with remote work

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## Video Conference

Zoom	Trello
Microsoft Teams	Async
Go To Webinar	Quip
Cisco WebEx	Air Table
Adobe Connect	Jira
Go To Meeting	Slack

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## Fake Websites

**Hacker websites resemble legitimate sites**

**Protections**

- Don't click on links
- Bookmark favorites
- Check URL
- Install ad-blocker to prevent pop-ups

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## Travel

<p><b>DURING</b></p> <ul style="list-style-type: none"> <li>• Use RIFD credit card holder</li> <li>• Don't leave devices unattended</li> <li>• Use privacy screen</li> <li>• Avoid public Wi-Fi and computers</li> <li>• Use hotel safe and unique pin</li> </ul>	<p><b>AFTER</b></p> <ul style="list-style-type: none"> <li>• Update devices and software</li> <li>• Change passwords</li> <li>• Backup data after trip</li> <li>• Remove apps no longer needed</li> <li>• Check credit card statements</li> </ul>
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## Reality of Breaches

- 25 % Cyber
- 75 % Insider Threat
- 1 in 8 employees pose high level of risk
- Average cost \$1.4 million per organization

Answer: Policies and Education

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## Cyber Attack Recovery

- Cyber Insurance
- Determine Scope
- Must Inform Stakeholders
- 50 State Notification Laws – Recovery Assistance

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## Keep Practice Safe

- Secure Network
  - Update System
  - Practice Least Privilege
- Cloud Secure
- Encryption/VPN
- Testing & Training
- Outside Monitoring

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### Before an Attack

- Have a plan
  - Lead responsibility, critical personnel
  - Know who to call
    - Pre-breach: "Black Cloak"
    - Post-breach: "Merchants Info"
  - Notify law enforcement
    - FBI and InfraGard

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### Available on Amazon

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### Business Reality

It is no longer a matter  
of if, but when...

And how you will respond !

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### Questions

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**JOHN IANNARELLI, ESQ CSP<sup>®</sup>**

**FBI Special Agent (Ret.)**

John Iannarelli served as an FBI Special Agent for 20 years, during which he was a SWAT team member and participated in the investigations of the Oklahoma City bombing, the 9/11 attack, the shooting of Congresswoman Gabrielle Giffords, and the Sony hack. Among his many FBI assignments, John served as the FBI's National Spokesperson, on the Cyber Division Executive staff, and was as an Assistant Special Agent in Charge overseeing all Criminal, Cyber and Counterintelligence investigations. He was recognized with the FBI's Director Award for Distinguished Service.

A former San Diego Police Officer and attorney with international studies at Oxford England, John is admitted to the practice of law in California, Maryland, and Washington DC. In addition, he is the recipient of an Honorary Doctor of Computer Science in recognition of his contributions to the field of cyber investigations. John was also an NFL Security Representative responsible for ensuring public safety throughout the football season and the Super Bowl.

John is the author of five books, including *Why Teens Fail and What to Fix*, a parents' guide to protecting their children on the Internet and other dangers, and *How to Spot a Terrorist Before It's Too Late*. His just released 5th book, *Disorderly Conduct*, examines the lighter side of law enforcement and the humorous moments during his FBI career.

John is a frequent on-air contributor for the national news media and has been profiled in Forbes. He provided live on-scene coverage from Las Vegas of the Mandalay Bay mass shooting attack as it occurred. An engaging and entertaining keynote speaker, John is a National Speakers Association Certified Speaking Professional (CSP<sup>®</sup>) known for sharing his intriguing insights combined with his superb sense of humor. He has presented to Fortune 500 companies, domestic and international audiences, the United Nations, and the Vatican, where he has personally met on several occasions with Pope Francis.

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