

Cybersecurity & Emerging Threats

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Agenda

- Threats & Trends
- Examples
- Best Practices
- Q&A
- Additional Resources





Threats & Trends





These days, cybercriminals/fraudsters are creative, ambitious and intelligent, making it critical for you to understand top security threats.

"I am convinced that there are only two types of companies: those that have been hacked and those that will be."

Robert Mueller, Former FBI Director

Top Security Threats

- Account Take Over
- Compromised Credentials/Systems
- Exploited Vulnerabilities
- Human Error
- Insider Threat
- Malware/Ransomware
- Social Engineering
- Web Application Attack

Cyber Crimes on the Rise







2021 Report

- BEC ↑
- Ransomware ↑

The 2021 FBI IC3 (Internet Crime Center) report shows a continued rise in BEC and Ransomware threats over the last three years.

Last 3 Year Complaint Loss Comparison

By Victim Loss	▼ ▲ = Trend from previous Year				
Crime Type	2021		2020		2019
Advanced Fee	\$98,694,137	•	\$83,215,405	•	\$100,602,297
BEC/EAC	\$2,395,953,296	•	\$1,866,642,107	•	\$1,776,549,688
Civil Matter	\$85,049,939	•	\$24,915,958	•	\$20,242,867
Confidence Fraud/Romance	\$956,039,739	•	\$600,249,821	•	\$475,014,032
Corporate Data Breach	\$151,568,225	•	\$128,916,648	•	\$53,398,278 ▼
Credit Card Fraud	\$172,998,385	•	\$129,820,792	•	\$111,491,163
Crimes Against Children	\$198,950	•	\$660,044	•	\$975,311
Denial of Service/TDoS	\$217,981	•	\$512,127	•	\$7,598,198
Employment	\$47,231,023	•	\$62,314,015	•	\$42,618,705 ▼
Extortion	\$60,577,741	•	\$70,935,939	•	\$107,498,956
Gambling	\$1,940,237	•	\$3,961,508	•	\$1,458,118
Government Impersonation	\$142,643.253	•	\$109,938,030	•	\$124,292,606
Health Care Related	\$7,042,942	•	\$29,042,515	•	\$1,128,838 ▼
Identity Theft	\$278,267,918	•	\$219,484,699	•	\$160,305,789
Investment	\$1,455,943,193	•	\$336,469,000	•	\$222,186,195 ▼
IPR/Copyright and Counterfeit	\$16,365,011	•	\$5,910,617	•	\$10,293,307 ▼
Lottery/Sweepstakes/Inheritance	\$71,289,089	•	\$61,111,319	•	\$48,642,332 ▼
Malware/Scareware/Virus	\$5,596,889	•	\$6,904,054	•	\$2,009,119 ▼
Non-Payment/Non-Delivery	\$337,493,071	•	\$265,011,249	•	\$196,563,497
Other	\$75,837,524	•	\$101,523,082	•	\$66,223,160
Overpayment	\$33,407,671	•	\$51,039,922	•	\$55,820,212
Personal Data Breach	\$517,021,289	•	\$194,473,055	•	\$120,102,501 ▼
Phishing/Vishing/Smishing/Pharming	\$44,213,707	•	\$54,241,075	•	\$57,836,379
Ransomware	\$49,207,908	•	\$29,157,405	•	\$8,965,847 🔺

Cyber Crime on the Rise

- Everyone's a Target: A company's size doesn't necessarily affect its ability to be targeted.
- Common Denominators: Lack of cybersecurity practices & technology + the 'human element' are at the root of most security threats.
 - Verizon's 2022 Report on data breaches found that 82% of incidents involved "the human element," whether through stolen credentials, malware, phishing attacks, or human error.
 - Phishing remains a low bar of entry for data breach and/or ransomware attacks, leading to network intrusion.
 - Once in, the bad actor can interrupt business operations, demand a ransom for hijacked data, or leak confidential records.

Impacts of Cyber Crimes

The average data breach cost in **2021** rose to **\$4.24 million**. The highest figure recorded in 17 years.

Trust & Customer Confidence: Companies might recover financially from a data breach, but **reputational impacts** could persist.



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BEC on the Rise

Based on FBI report data, some progress has been made in pursuing the fraudsters. But their data continues to show a rise in cybercrimes since the onset of the pandemic and a more virtual environment.

\$43 Billion

October 2013 – December 2021 \$14B in the US



May 04, 2022

Alert Number I-050422-PSA

Questions regarding this PSA should be directed to your local FBI Field Office.

Local Field Office Locations: www.fbi.gov/contact-us/field-

Business Email Compromise: The \$43 Billion Scam

This Public Service Announcement is an update and companion piece to Business Email Compromise PSA I-091019-PSA posted on www.ic3.gov. This PSA includes new Internet Crime Complaint Center complaint information and updated statistics from October 2013 to December 2021.

DEFINITION

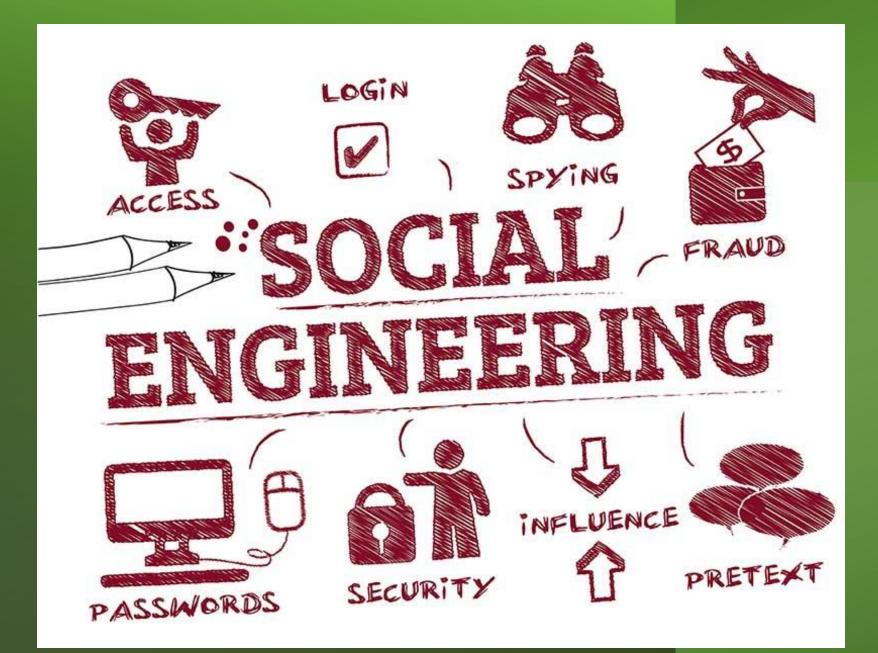
Business Email Compromise/Email Account Compromise (BEC/EAC) is a sophisticated scam that targets both businesses and individuals who perform legitimate transfer-of-funds requests.

2021: \$2.4B in losses; 19,954 BEC complaints

Examples







Social Engineering & Fraud

- Phishing: The attacker sends fraudulent emails with the intent of luring a user to click a link or open a document.
- Vishing: The attacker uses a phone call to attempt to gain money or information.
- Smishing: The attacker uses a *text message* to attempt to gain money or information.

Typical results of phishing, vishing and smishing are system compromise (ex. malware) or credentials (ex. username).

 Business Email Compromise (BEC): The attacker/fraudster spoofing a user's email address to send fraudulent emails on their behalf.

Typical results of BEC are disclosure of sensitive and/or personal information or movement of funds.

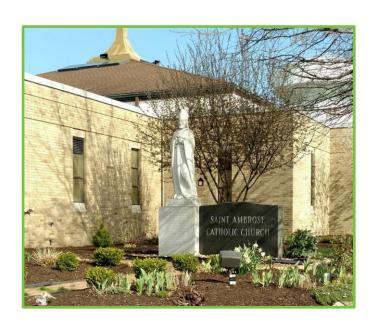
While attackers have become more sophisticated in their tactics (ex. target development), here are some common tactics:

- Sense of urgency, including use of current crisis as topic or to increase urgency
- Timing, often near close of business on Friday
- Change in email tone
- Removal of addressees on the email chain (cc or other addresses)
- Less Common: Misspellings

BEC Case Study: Invoicing, Electronic Payment

Construction Invoicing (St. Ambrose Catholic Parish)

- 1. Parish email server compromised
- 2. Fraudsters monitored communications
- 3. <u>Valid invoice</u> submitted to parish for payment
- 4. Fraudster spoofs message, as construction firm, to parish requesting a change in payment wire instructions



\$1.75M LOST

BEC Case Study: Invoicing, Electronic Payment

Local Government (Peterborough, New Hampshire)

- 1. Email impersonating local school district & local construction company demands \$1.2M payment in July 2021
- 2. <u>Investigation discovered other</u> <u>fraudulent payments</u>
- 3. <u>Secret Service investigation shows that</u> the money was laundered through cryptocurrency



\$2.3M LOST

Best Practices: Actions You Can Take

It is nearly impossible to try to prevent every type of attack. Focusing on risk mitigation and management is key.





Security Best Practices for Your Business



- 1. Create an incident response and crisis response plan
- 2. Be proactive with cybersecurity awareness training
- 3. Implement detective and preventative measures in your environment;
- 4. Create well documented processes; Review/update
- 5. Back up important business data and information
- 6. Implement Identity and Access Management (IAM) policies
- 7. Understand the security posture of your IT environment
- 8. Control physical access to computers and network components
- 9. **Identify** and protect sensitive information
- 10. Increase information sharing and collection
- 11. Act quickly in the event of an incident
- 12. Obtain &/or understand your cyber insurance policy

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Security Best Practices for You

- 1. Set strong, unique passwords or passphrases
- 2. Use two-factor authentication whenever you have that option
- 3. Install reliable anti-virus software on all your devices
- 4. Don't click suspicious links in texts or emails
- 5. Keep devices up-to-date
- 6. Delete unused apps from all devices
- 7. Be aware of your physical and virtual surroundings
- 8. Always confirm with a vendor or customer

Accounts & Passwords Tips

- Do NOT use the same username/password across accounts
- Do NOT share passwords or accounts
- Change passwords periodically
- Use a <u>password manager</u> don't have to put sensitive accounts in password manager

Use Two-Factor Authentication, where offered

Quick tip on security challenge questions – Fib!!!!



Social Media Tips

- Share too much personal information
- Be mindful of quizzes, add-on apps
- Not being mindful can result in your device infected with malware, catfishing, or home invasion.

Home Network

- Keep all devices on current OS versions
- Keep all applications up-to-date
- Ensure that you have antivirus software installed on your devices
- Only download applications from reputable app stores or websites
- Back up data (phones and computers)
- Dispose of old phones, computers, and media
- Securely store and appropriately destroy/shred sensitive information



- Update OS and Applications
- Only use apps from authoritative apps stores
- Limit application access (to data, photos, location, etc.)
- Backup your phone data
- Disable automatic Wi-Fi connections
- Be cautious of where you charge your phone in public using a USB cord
- Never leave your phone unattended and ensure you have an access pin or biometric in place to gain access
- Utilize caller ID to monitor robo calls, etc.



Electronic & Mobile Banking Security

Utilize:

- A known link to the bank's web services
- Your bank's app
- Remote Deposit
 Capture Security of paper check
- Accounts Alerts
- Credit & Identity
 Monitoring Alerts
- Registered Devices





Additional Resources

- Cybersecurity & Infrastructure Security Agency: https://www.cisa.gov/publication/cisa-cybersecurity-awareness-programtoolkiť
- National Cybersecurity Alliance: https://staysafeonline.org/resour ces/
- STOP. THINK. CONNECT. https://www.stopthinkc onnect.org/
- Huntington: https://www.huntington.com/ Privacy-Security



Thank you.