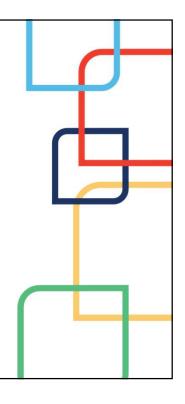
CYBERSECURITY

Benjamin Taylor

Business Email Compromise





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DISCLAIMER

- This presentation is for information only.
 - Evaluate risks before acting based on ideas from this presentation.
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Agenda

BUSINESS EMAIL COMPROMISE

- What is Business Email Compromise
- Ways Email can be Compromised
- The Human Element
- The Psychology of Social Engineering
- Minimizing the Impact



How reliant are you on email?

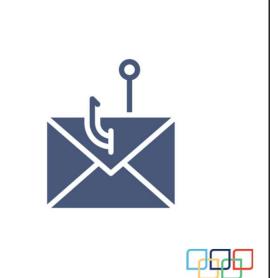


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BUSINESS EMAIL COMPROMISE

"Business Email compromise (BEC) is a type of cybercrime where the scammer uses email to trick someone into sending money or divulging confidential company information."

What is Business Email Compromise (BEC)? | Microsoft Security



Types of Business Email Compromise (BEC)



False Invoice Scam



CEO Fraud



Attorney Impersonation



Data Theft



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Statistics

- In 2023, the FBI received **21,489 BEC complaints**, with estimated losses totaling more than \$2.9 billion. *FBI Internet Crime Report 2023*
- There was a **65% increase in identified global exposed losses** from Business Email Compromise fraud. *FBI PSA: Business Email Compromise (BEC): The \$43 Billion Scam*
- Pretexting, including BEC, overtook phishing as the **most prevalent** social engineering tactic in 2022, with BEC attacks accounting for more than 50% of social engineering incidents. *Verizon 2023 Data Breach Investigations Report*

SpyCloud



Pretexting

Pretexting is a **social engineering attack** where the attacker creates a
fabricated identity or scenario to
persuade a victim to divulge confidential
information, grant access to restricted
systems, or perform actions they would
otherwise not undertake.

What Is Pretexting? - Definition & Attack Examples | Proofpoint US



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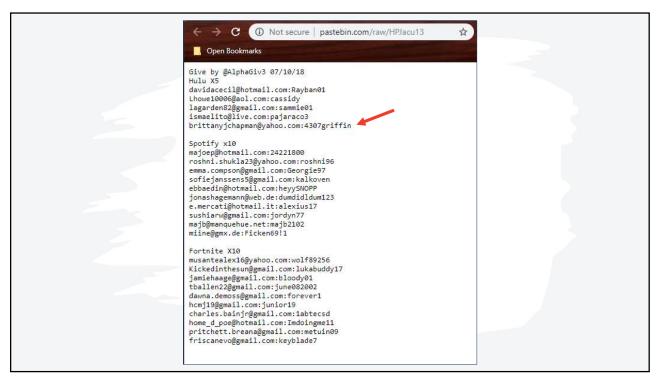
Social Engineering Attack

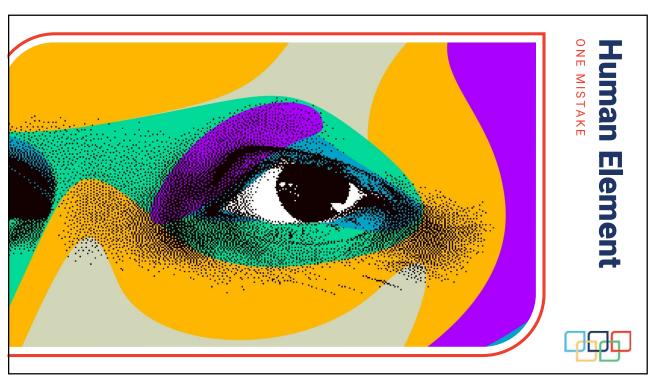
Attacked Local Business

Attacker Unknown

Social Media Social Engineering

Click for pics!



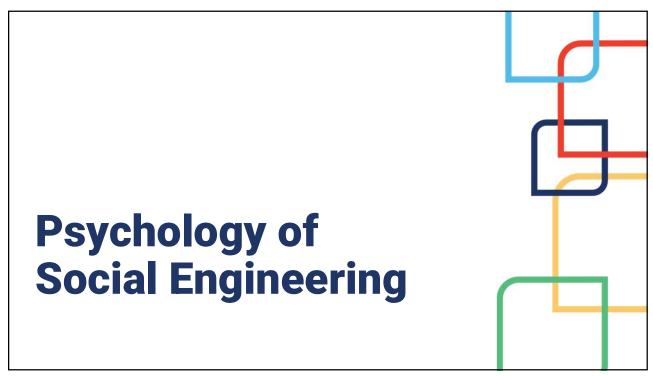


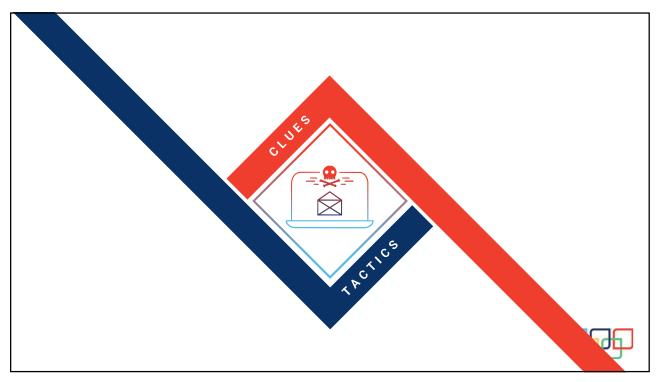
HUMAN ELEMENT

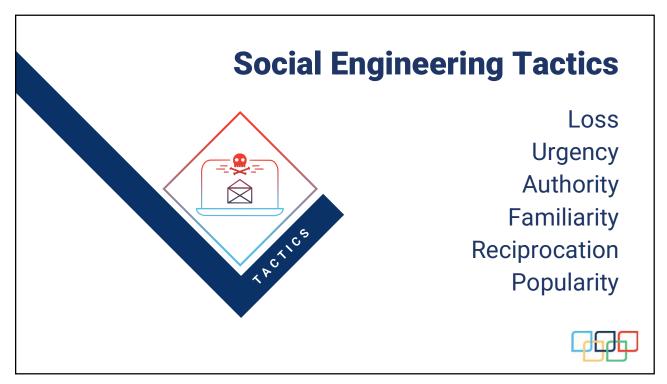
"Human error plays a significant role in data breaches. In fact, **74% of incidents involved some form of human involvement**, such as clicking on phishing links, falling for social engineering scams, or making other inadvertent mistakes." – MS Copilot

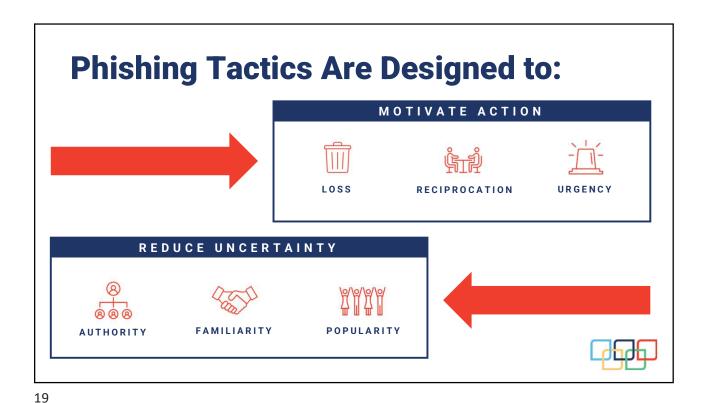
security Magazine https://www.infosecurity-magazine.com/news/human... <u>fuman Error the Leading Cause of Cloud Data Breaches</u> reb Jul 6, 2023 · The leading cause of cloud data breaches was human error, at 55%, according the report. This was significantly above the next highest factor identified by ... Tech Xplore https://techxplore.com/news/2022-06-cyberattacks-human-error.html: More than 90% of cyberattacks are made possible by human error web Jun 9, 2022 · More than 90% of **cyberattacks** are made possible, to a greater or lesser exte by human error, according to IBM data. Therefore, despite technological advances to . International Association of Privacy Professionals https://iapp.org/news/a/cybersecurity-analysts-say...: Cybersecurity analysts say human error responsible for most ... web Aug 28, 2019 · IT service management company Gartner estimates up to 95% of cloud breaches stem from human errors. The recent Capital One data breach is an example, .. Missing: stats | Must include: stats hbr.org https://hbr.org/2023/05/human-error-drives-most...: Human Error Drives Most Cyber Incidents. Could Al Help? web May 3, 2023 - Post, Although sophisticated hackers and Al-fueled cyberattacks tend to hijac the headlines, one thing is clear: The biggest cybersecurity threat is human error,

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"The form and pace of modern life is not allowing us to make fully thoughtful decisions [...] Sometimes the issues may be so complicated, the time so tight, the distractions so intrusive, the emotional arousal so strong, or the mental fatigue so deep that we are in no cognitive condition to operate mindfully. "

Source: Influence The Psychology of Persuasion by Dr. Robert Cialdini

Dr. Robert Cialdin



