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DISCLAIMER

The opinions expressed during this presentation are my own. They do not necessarily represent the views of the Tennessee Comptroller of the Treasury, his representatives, or the Tennessee Department of Audit.

TENNESSEE COMPTROLLER OF THE TREASURY





What is Cybersecurity?

According to CISA.gov:

Cybersecurity is the art of protecting networks, devices, and data from unauthorized access or criminal use and the practice of ensuring confidentiality, integrity, and availability of information.

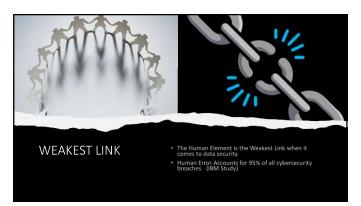
TENNESSEE COMPTROLLER OF THE TREASURY

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What Do They Have in Common?

- City of Knoxville
- Knoxville Police & Fire Department
- Lawrence County Sheriff's Office
- Coffee County Sheriff's Office
- Spring Hill City & 911
- Henry County 911
- Murfreesboro Police & Fire
- Montgomery County Government City of Collierville
- Sevier County
- City of Springfield
- Anderson County
- Pellissippi State Community College
- Maury County Public School District
- Jefferson County Schools

TENNESSEE COMPTROLLER OF THE TREASURY



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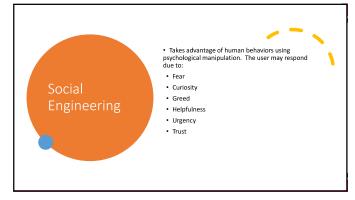
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Social Engineering-

(in the context of information security) the use of <u>deception</u> to <u>manipulate</u> individuals into <u>divulging</u> confidential or personal information that may be used for fraudulent purposes.

How People Really Get Hacked

https://languages.oup.com/google -dictionary-en/





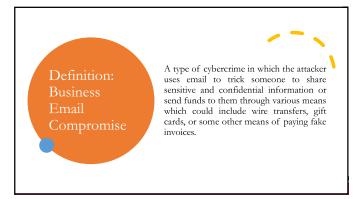
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Cybersecurity Threats



- Business Email Compromise
- Phishing/Smishing/Vishing
- Malware/Ransomware
- Weak Passwords

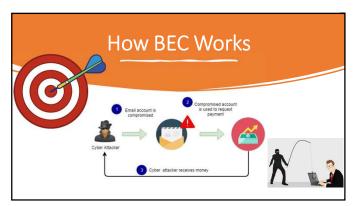


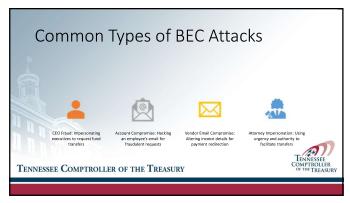












Real Life Examples Of BEC

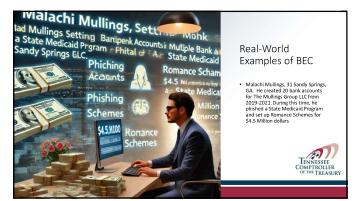
Children's Health Care-Atlanta-\$3.6 million

Eagle Mountain City, Utah-\$1.3 million

Toyota Boshoku Corporation-\$37 million

City of Lexington, KY- \$4 million

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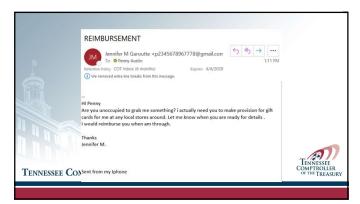
Real-World Example > On Friday, April 1, 2022, 10:38:55 AM CDT, Donna Craig > wrote: > Randi > I'll need you to process a payment for merodday via ACH/WIRE > TRANSFER/CHECK MAILING. For the > Administrative networking web-hosting activity expense. > Set back to me if you can get this done, so i can forward the payment details to you. > Regards > Donna On 4/1/22, Randi French wrote: > Yes ma'am I sure can:) > Thank you,Randi FrenchHenry County Trustee

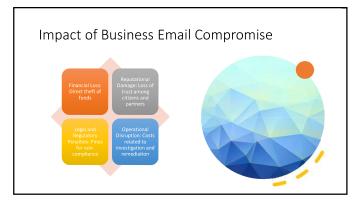


-----Original Message---From: Tammy Steele multilimpio@multilimpio.com.mx
To: Drnyers2382 Drnyers2382@aol.com
Sent: Tue, Aug 29, 2017 11:07 am
Subject: Invoice number 8662549 second Notification
Good day First Utility District of Tipton County 2275,

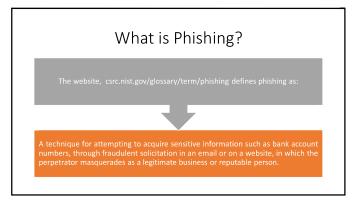
Called you a few times without success. Decided to reach you by email. I need to know the status of this invoice below, it's way past due.

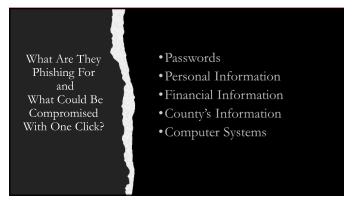
http://funfrance.fr/Invoice-266141-reminder/
Yours Truly,
Tammy Steele



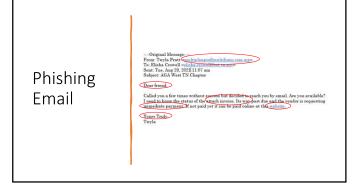


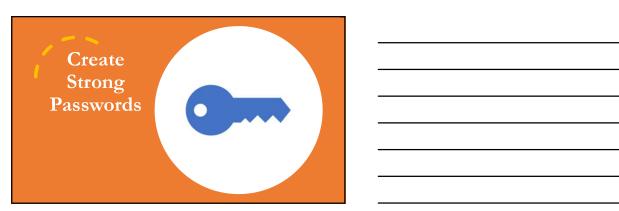




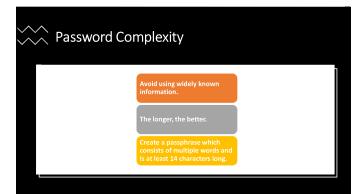


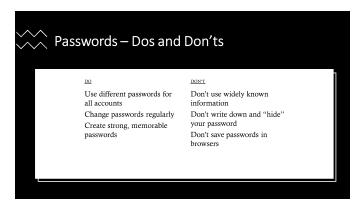






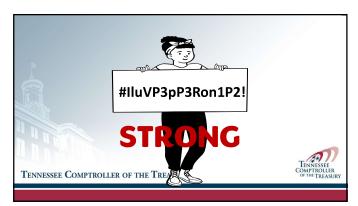












How to Prevent Cybersecurity Threats like BEC!

•Multi-factor authentication







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What Do I Do If I Suspect I Have Responded to a Threat like BEC or Phishing?



Don't Panic



Report it immediately t



Follow your organizations cyber policy/cyber-attack



If needed, management should seek guidance from IT or software vendors.



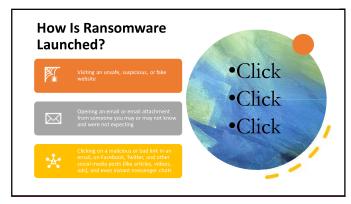
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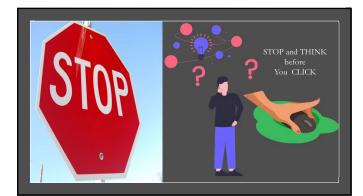


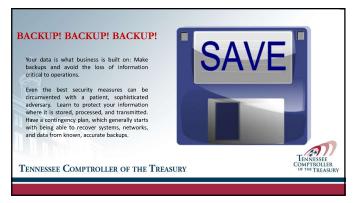
Ransomware

What is it?

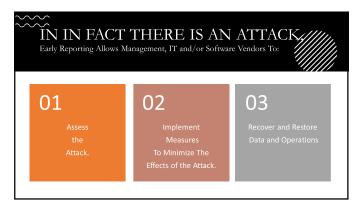
 A malicious software that is a form of high-tech extortion where the software hijacks computer systems and holds them hostage until their victims pay a ransom.

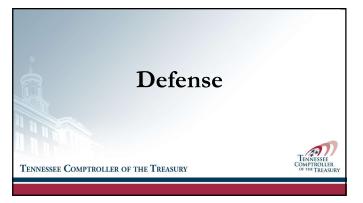


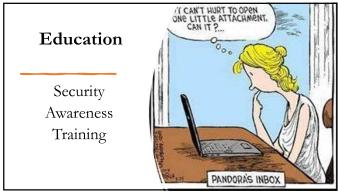








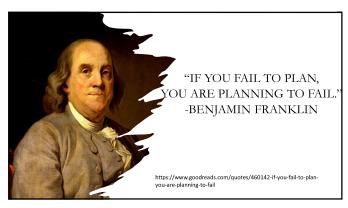




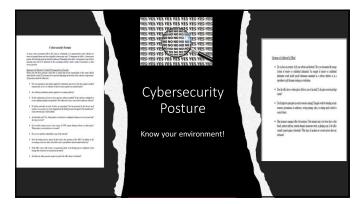












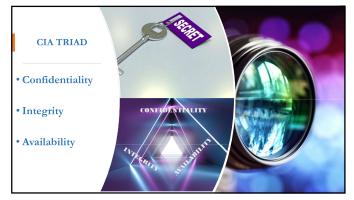




Best Defense-Recap

- Cybersecurity Awareness Training
- Create Strong Passwords and change regularly.
- Do not share your passwords.
- Use MFA (Multifactor Authentication
- Develop a Cybersecurity Plan
- Understand Your Office's Cybersecurity Posture
- Know what your sensitive data is and where it is stored.
- Use antivirus software and anti-malware software on computers to detect malicious software.
- Update your operating system
- Backup Regularly
- Most importantly, be a good team member. Be mindful, think before you click. Communicate to appropriate level of management if something seems off or if you think you may have clicked on something.

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Best Defense-Overlap

How Do We Maintain Confidentiality of Our Data and Networks?

- Employee Training
- Know what your sensitive information is and where it is stored.
- Restricting access to least privileged users.
- Strong Password Protection Or Multi-factor Authentication.
- Logging Out of the Application when away from workstations and locking the workstation. To lock select Ctrl+Alt+Delete.
- Password protected screen savers or sleep settings that activate within 30 minutes or less of inactivity.
- How Do we Maintain Integrity of our Date and Networks?

- Employee Training
 Physical Security
 Backup and Recovery
 Procedures and Plans
 Least privileged user access
 Data Validation and
 Validation and

- How Do We Protect Availability of our Data and Networks?
- Employee Training
 Update and Patch
 Backup Data Daily.

 - Backup Data Deny.
 Redundancy of backups/ store off-site weekly.

 - Inventory your data.
 Implement and follow Record Retention Policies.
 - Proper Disposal of data and records.
 - Monitoring



