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Upcoming Texas RE Events











Upcoming Texas RE Events











Upcoming ERO Enterprise Events



Date	Event
August 6	Protection System Workshop (RF)
August 7	Human Performance Workshop (RF)
August 12-14	Power System and Security Conference (WECC)
August 13	Inverter-Based Resource Webinar (MRO)





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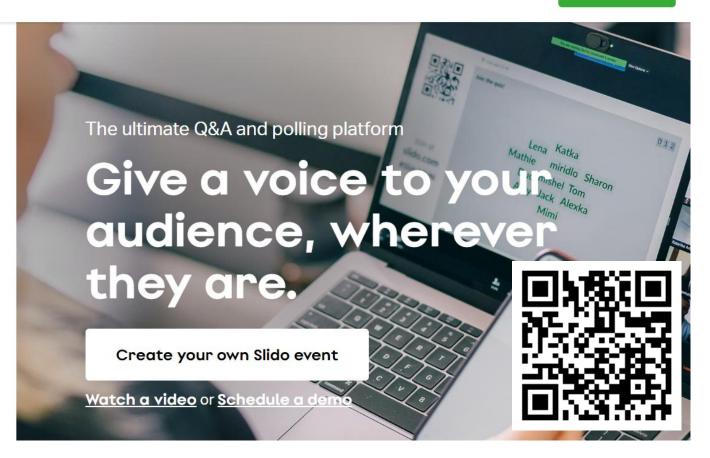
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Cybersecurity Threats—Agenda

Review the Last Year(ish) of Cyber Incidents/Events

- Typhoon Chain
- Crowdstrike
- DDoS Attacks
- North Korean Remote Worker Scheme

Social Engineering

- Methods
- Al Risks
- Defenses







Cybersecurity Threats—Typhoon Chain Threat



Volt Typhoon

- Critical Infrastructure
- Persistence and Stealth

Salt Typhoon

• Communications Infrastructure

Silk Typhoon

Supply Chain



Cybersecurity Threats—Recent Incidents

Crowdstrike Event

- "Channel File 291" Incident
- Windows Resiliency Initiative

DDoS Attacks

- 358% Increase in Year-Over-Year Attacks
- Mirai Malware

North Korean Remote Worker Scheme

Laptop Farms







Cybersecurity Threats—Social Engineering



Goals

- Money
- Information
- Virtual and Physical Access

Vectors

- Fear
- Trust
- Lack of Awareness
- Conflict Avoidance

New Threat

Al





Social Engineering Tactics

Phishing

Spear Phishing/Whaling

Smishing (SMS Phishing)

Vishing (Voice Phishing)

Business Email Compromise (BEC)





Tailgating/Piggybacking





http:// Your. Bank

Password?

Social Engineering—Examples

Phishing



Password Expiration - Authentication Service

Hi User.

Password for your account will expire today. Please follow the link to update your account password.

Keep same Password

Support Service Desk Microsoft

Note: This verification is for it's intended receiver

NETFLIX

Automatic payment.

Hi Customer,

Your Auto payment cannot process. Your subscription period will end on Wed, January 22, 2020.

Click Here to update payment method

please update your payment methode for continue Netflix feature.

The Netflix Team

Smishing

Sunday 12:57 PM

Please pay for FastTrak Lane on December 22, 2024. In order to avoid excessive late fees and potential legal action on the bill, please pay the fee in time. Thank you for your cooperation and wish you a happy holiday.

https://thetollroads.com-

(Please reply Y, then exit the text message and open it again to activate the link, 7:27 your Safari brows

Text Message Today 08:58

We have identified some unusual activity on your online banking. Please log in via http://bit.do/dq3WJ to secure your account.



Text Message Today 5:56 PM

Hello Olivia, your FEDEX package with tracking code GB-6412-GH83 is waiting for you to set delivery preferences: e3fmr.info/onAyXsVfomA





Social Engineering—Al Powered

How is AI Altering the Social Engineering Environment?

- Al speeds and scales social engineering
- Specialized AI models (WormGPT, FraudGPT) can generate well-written, believable, and tailored phishing emails
 - One study showed a 54% increase in clicked emails
- Volume
 - Thousands of emails can be created and sent in minutes
- Personalization
 - Public data, social media
- Realism
 - Deepfakes & cloned voices
- Adaptability
 - Real-time chatbots





Social Engineering—Al Phishing Scenario

Reconnaissance

Al algorithms scour publicly available information like social media profiles, corporate websites, and news articles to gather details about individuals and organizations.

Content Generation

Using this information, Al-powered text generation tools create highly customized and believable phishing emails. They can mimic the writing style and tone of trusted contacts, incorporate references to recent activities or projects, and use accurate terminology and formatting, making the emails appear legitimate.

Attack and Automate

Send emails and adjust for success—automated A/B testing can be used to optimize subject lines, email structures, and content variations for maximum impact.





Social Engineering—Al Deepfake Voice Phishing

- Vishing attacks surged almost 500% in 2024
- Voices can be cloned with 3-5 minutes of sample audio
- Mostly used for fraud but expanding to political and other purposes
- Al-powered tools generate personalized and believable audio

Al-generated voice messages posing as Secretary of State Marco Rubio

- Two voicemails and text message sent over the Signal app
- Messages sent to U.S. and foreign officials

\$25M loss to deep fake scheme

- Finance member joined a video conference call with people he believed to be the chief finance officer and other employees
- Was convinced to wire money to fraudsters

Florida mother loses \$15K to deep fake voice call

- Received phone call from a number that looked like her daughter's
- Voice that she believed was her daughter claiming to be in jail and needing money for bail





Social Engineering—Workplace Defenses

- Training
 - Awareness training, phishing tests, simulated attempts
- Multifactor Authentication
- Conditional Access Policies
- SPF, DKIM, DMARC
 - Check for sender's address, spoofed links, suspicious attachment
- Finance Change Control
- Social Media Policies
- Application Control, Attack Surface Reduction Policies
- Deepfake Detection Tools
- Zero Trust







Social Engineering—Personal Defenses

Be Skeptical!

If Urgency is Implied, SLOW DOWN

Password Control

- Password manager
- Enable MFA anywhere you can

Keep Devices Patched

Limit What You Share Online

Freeze Your Credit

Socialize Awareness





Social Engineering—Key Takeaways

Al Speeds and Scales Social Engineering

- Right now, not containable
- Voice/video deepfakes are already causing multi-million-dollar frauds

Multifaceted Approach to Defense

- Be proactive
- Vigilance
- Advanced technological defenses







