Greene County Information Systems

Cybersecurity in a World of Growing Threats

Greene County Information Systems

IS Security Mission Statement:

Ensure confidentiality, integrity, and availability of county information and assets through a balanced, multilayered, threat informed strategy.

We're going to talk about

- Current Threats
 - Who
 - What
 - Why
 - How
- What we are doing
 - Protections in place
 - Upcoming projects
- What you can do to help



Current Threats: Who



Opportunistic vs Targeted threat actors

- Opportunistic: spray and pray, sending out phishing emails to a list of addresses, hoping someone will take the bait
- Targeted: a motivated actor who is going after a specific person or organization

Organized crime

- Opportunistic and targeted
- Run like a business Ransomware as a service, Initial access brokers, call centers

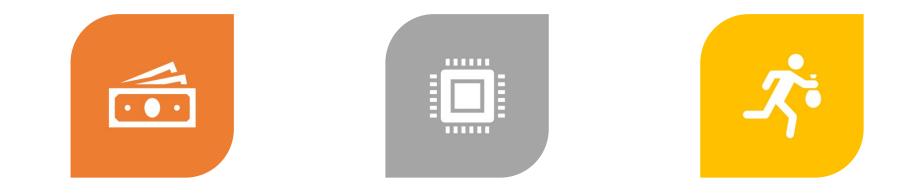
Nation state

- Targeted
- Well funded and well trained APT (advanced persistent threat)

Current Threats: What

- Data Breach
 - PII
 - Financial information
- Disruptive/Destructive attacks
 - DoS, malware, wipers, OT (water treatment, pipelines, electrical grid)
- Ransomware
 - Form of disruptive attack
 - Malware that encrypts your data that is then held for ransom

Current Threats: Why



INFORMATION = MONEY VERIZON BREACH REPORT FOUND 95% OF DATA BREACHES ARE FINANCIALLY MOTIVATED

RANSOMWARE – ABOUT \$900 MILLION IN 2023

Current Threats: How

- Stolen Credentials
 - 49% data breaches involved use of stolen credentials
 - Breaches to steal credentials!
 - Phishing emails
 - Credential harvesting websites

Current Threats: How

Email security

- Phishing -> biggest risk
- Don't click links, unless you have to

Attachments are still a risk

- Html/url stuffing
- Malware
- Ransomware

How has Al changed the game

- ChatGPT
- Microsoft Copilot baked in
- More realistic and natural sounding emails

Current Threats: How



What you can do

- Trust but verify
 - Trust your Spidey senses
 - Ask to see badges
 - Call trusted numbers to verify requests, especially via email
- Suspicious email program
 - Keep sending in those suspicious emails
 - Helps the whole county!
- How to spot AI phishing?
 - Ask Copilot

What you can do

You

"What are some tips to recognize AI generated phishing emails?"

Copilot

- **Phishing emails**—those cunning attempts to trick you into revealing sensitive information or downloading malicious files—are becoming more sophisticated, thanks to the use of **AI**. Here are some tips to help you recognize these AI-generated phishing emails:
- Compare with Previous Communications: Pay attention to the formatting and design of the email. Compare it with any previous communications you've received from the supposed sender. <u>Inconsistencies in tone</u>, <u>style</u>, or vocabulary may indicate a phishing attempt1.
- Content Quality: AI-generated phishing emails may still use generic greetings like "Dear user" or "Dear customer" instead of addressing you by name. <u>Look for poorly written content or typos1</u>.
- **3. Unexpected Attachments**: If an email contains an **attachment** you weren't expecting, exercise caution. <u>If</u> you know the sender but doubt the content, verify it through an alternate communication method1.

What we're doing

People-centric cybersecurity strategy

- You all are our greatest assets!
- Everyone of you is a sensor in the field

Talk to you guys

- Cyber awareness training Sharing is caring
 Understand your business Protect to enable
 - •Talk Tech so much cool stuff going on, but can we use any of it?

Cisco Duo -> game changer!

- Dramatic reduction in compromised accounts
- If you get locked out of Duo, without logging in, let us know!

Suspicious email program

Upcoming Improvements

Arctic Wolf allows us to dramatically up our security game!

• 24/7 SOC monitoring

- Vulnerability scanning
- Cyber awareness training

Network Segmentation

- Compartmentalize department data networks
- Reduce spread of malware



Thank you!





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